

**In the Matter of:**

*HP Inc., Dell Technologies, Inc, Dell Inc., et al. vs  
LiTL, LLC*

---

*Andrew Wolfe, Ph.D.*

*August 02, 2024*

---

*68 Commercial Wharf • Boston, MA 02110  
888.825.3376 - 617.399.0130  
Global Coverage  
Magnals.com*



UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

HP INC., DELL TECHNOLOGIES INC.,  
DELL INC., ASUSTEK COMPUTER INC.,  
and ASUS GLOBAL PTE. LTD.,

Petitioners,

vs.

LITL LLC,

Patent Owner.

Case No.  
IPR2024-00404  
Patent No.  
8,624,844

REMOTE DEPOSITION OF

ANDREW WOLFE, Ph.D.

AUGUST 2, 2024

Reported by:  
Brooke Silvas, CSR 10988  
Job No. 1179213

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

HP INC., DELL TECHNOLOGIES INC.,  
DELL INC., ASUSTEK COMPUTER INC.,  
and ASUS GLOBAL PTE. LTD.,

Petitioners,

vs.

LITL LLC,

Patent Owner.

Case No.  
IPR2024-00404  
Patent No.  
8,624,844

Remote deposition of ANDREW WOLFE, Ph.D.,  
taken on behalf of LITL LLC, commencing at  
7:56 a.m., on Friday, August 2, 2024, before  
Brooke Silvas, Certified Shorthand Reporter  
No. 10988.

1 APPEARANCES OF COUNSEL:

2 (All appearances are via videoconference.)

3 For Petitioners:

4 JAMES HEINTZ, ESQ.  
5 DLA PIPER  
6 One Fountain Square  
7 11911 Freedom Drive, Suite 300  
8 Reston, Virginia 20190-5602  
9 703-773-4000  
10 jim.heintz@dlapiper.com

11 For Patent Owner:

12 JASON W. BALICH, ESQ.  
13 WOLF GREENFIELD & SACKS, P.C.  
14 600 Atlantic Avenue, 23rd Floor  
15 Boston, Massachusetts 02210  
16 617-646-8000  
17 jason.balich@wolfgreenfield.com

I N D E X

WITNESS: ANDREW WOLFE, Ph.D.

| EXAMINATION BY | PAGE |
|----------------|------|
| MR. BALICH     | 5    |

E X H I B I T S

| WOLFE | DESCRIPTION                                           | PAGE |
|-------|-------------------------------------------------------|------|
| 1001  | US Patent No. 8,624,844                               | 7    |
| 1002  | Declaration of Andrew wolfe, PHD                      | 7    |
| 1007  | windows XP Pro, The Missing Manual                    | 28   |
| 1015  | US Patent No. 5,689,667                               | 56   |
| 1008  | US Patent No. 6,771,494                               | 60   |
| 1020  | US Patent Application Publication<br>Hotelling et al. | 69   |

REMOTE DEPOSITION; FRIDAY, AUGUST 2, 2024  
7:56 A.M.

ANDREW WOLFE, Ph.D.,  
having been duly administered an  
oath remotely by the reporter, was examined  
and testified as follows:

EXAMINATION

BY MR. BALICH:

Q Good morning, Mr. Wolfe.

If you could state your name and business  
address for the record.

A Andrew Wolfe, W-O-L-F-E. 2005 De La Cruz  
Boulevard, Suite 142, Santa Clara, California 95050.

Q And my name is Jason Balich. I represent  
the patent owner, litl.

I understand you've been deposed several  
times before; is that correct?

A Yes.

Q So I'm sure you're an expert at this. And  
I'll just go over the ground rules. I'll be asking  
you questions today. If at any time you don't  
understand a question, could you ask me to repeat it  
or clarify it or something like that?

1           A     Sure.

2           Q     If you don't ask me to clarify a question,  
3     can I assume that you understood my question?

4           A     I understand.

5           Q     All right. If at any time you need a  
6     break, let us know. The one thing that I would ask  
7     is that you answer any pending question before we  
8     leave for the break. Is that fair?

9           A     Okay.

10          Q     And then one other thing that I would ask  
11     is when I ask a question, that you just answer the  
12     question that I ask as opposed to answering a  
13     different question. Is that fair?

14          A     I'll do my best.

15          Q     Okay. Is there any reason that you would  
16     not be able to testify truthfully and completely to  
17     my questions today?

18          A     No reason.

19          Q     All right. So we're using the AgileLaw  
20     platform that has a number of exhibits. If at any  
21     time you want to use a hard copy version of your  
22     declaration or any of the other exhibits, feel free  
23     to. Do you have any hard copies with you today?

24          A     Yes.

25          Q     Okay. Do -- do any of the hard copies that

1 you have have any of your own personal notes that  
2 was not part of the exhibit?

3 A No.

4 Q Okay. So if we could go to Document 1.  
5 That's Exhibit 1001.

6 (Wolfe Exhibit 1001 was electronically  
7 received and marked for identification  
8 by the deposition officer.)

9 BY MR. BALICH:

10 Q And let me know when you've got that in  
11 front of you.

12 A I do.

13 Q Do you recognize Exhibit 1001 as US Patent  
14 Number 8,624,844?

15 A It appears to be that.

16 Q If I refer to this exhibit as the '844  
17 patent, will you understand that I'm referring to  
18 the patent in Exhibit 1001?

19 A Yes.

20 (Wolfe Exhibit 1002 was electronically  
21 received and marked for identification  
22 by the deposition officer.)

23 BY MR. BALICH:

24 Q Okay. And if you could turn to document  
25 number 2, that's Exhibit 1002. And let me know when

1 you're there.

2 A I am there.

3 Q Do you recognize Exhibit 1002 as the  
4 declaration that you submitted in connection with  
5 this matter?

6 A It appears to be.

7 Q Okay. If you turn to the second page.

8 A Of Exhibit 2?

9 Q Of Exhibit 1002. Yep.

10 A Okay.

11 Q You'll see at the bottom, there's the Roman  
12 numeral II. And literally it says page number 2.  
13 Do you see that?

14 A Yes.

15 Q So when I refer to a page in your  
16 declaration or, in fact, any of these exhibits, can  
17 we agree to use the page numbers that were applied  
18 as part of the exhibit number, so the exhibit and  
19 the page and then whatever that page number is?

20 A Okay.

21 Q So if you turn to page 96, let me know when  
22 you're there.

23 A Okay.

24 Q Is that your signature on page 96 of  
25 Exhibit 1002?

1           A     I believe it is.

2           Q     Did you sign your declaration?

3           A     Yes.

4           Q     And you signed it on January 25th, 2024?

5           A     Yes.

6           Q     And you declared under the penalty of  
7 perjury that everything in your declaration was true  
8 and correct; is that right?

9           A     To the best of my knowledge at the time,  
10 yes.

11          Q     Since then, have you found anything in your  
12 declaration that you need to correct?

13          A     Not that I can recall.

14          Q     Okay. And if you turn to page 104 of your  
15 declaration, let me know when you're there.

16          A     Okay.

17          Q     This is a list of expert testimony that you  
18 provided deposition or trial since April 15, 2018;  
19 is that correct?

20          A     Yes. As of that January date.

21          Q     Great. Have there been any depositions or  
22 trials that you have taken or attended as a witness  
23 since that January date?

24          A     Yes.

25          Q     Approximately how many?

1           A     I can recall depositions on three matters  
2 since then. But I would have to check to see if  
3 there were others.

4           Q     Okay. Have you ever provided expert  
5 testimony on behalf of HP before?

6           A     I have worked on matters on behalf of HP  
7 before. I don't recall whether or not there was  
8 testimony involved. I don't think I've ever been to  
9 trial on behalf of HP. But there may have been  
10 expert reports, declarations, or depositions. I  
11 just don't recall.

12          Q     And what were the occasions that you worked  
13 for HP before?

14          A     I don't remember. I would have to go back  
15 and look at my records. It's -- it hasn't been  
16 recent.

17          Q     Approximately how long ago was the last  
18 time that you worked for HP?

19          A     Prior to this matter?

20          Q     Correct.

21          A     I don't remember.

22          Q     Have you ever provided expert testimony on  
23 behalf of Dell before this matter?

24          A     Yes.

25          Q     And when was that?

1           A     Again, I don't remember all the times, but  
2 I know that I was -- I do recall testifying at an  
3 ITC hearing on behalf of Dell many years ago.

4           Q     Okay. Have you ever provided expert  
5 testimony on behalf of ASUS before?

6           A     Again, I don't recall. If I did, it wasn't  
7 recent. But I may have.

8           Q     Okay. And have you ever provided expert  
9 testimony on behalf of Microsoft before?

10          A     No.

11          Q     The list of testimony that you provided on  
12 page 104 of your declaration, is that accurate for  
13 the time period of April 15, 2018, until  
14 January 25th, 2024?

15          A     To the best of my knowledge, I went through  
16 my records and tried to reconstruct everything.

17          Q     One of the work experiences that you've had  
18 was working at a company called S3; is that correct?

19          A     Yes.

20          Q     And you managed the company's relationship  
21 with Microsoft; is that right?

22          A     Substantial portions of it.

23          Q     And so what exactly did that entail?

24          A     It involved exchanging information under  
25 NDA about changes to graphics and platform standards

1 or requirements. It involved coordinating with we  
2 called it WHQL. Let me see if I can remember what  
3 that stands for. I think it's windows Hardware  
4 Qualification Laboratory. Essentially it meant that  
5 your hardware and your drivers would be tested by  
6 Microsoft before you would claim that they were  
7 windows compatible. And it involved some IP  
8 licensing inbound and outbound. They had rights to  
9 use some of our patents. And we, of course, had  
10 rights to use portions of their software in  
11 developing our own drivers.

12 Q So S3 made drivers for -- for windows; is  
13 that right?

14 A Yes. S3, at the time I joined, made  
15 graphics chips for more than half the computers in  
16 the world. And we also made some sound chips. We  
17 made some modems. So -- and the graphics chips by  
18 that time had advanced video capabilities. So we  
19 supplied drivers and -- and what was called a video  
20 BIOS to go along with those products.

21 Q Is that because the driver and the BIOS was  
22 required for the graphic to work on a computer?

23 A Not in order for it to work, but in order  
24 for it to have the full functionality that we wanted  
25 and, in particular, to be compatible with games.

1 Q Okay. what versions of windows did  
2 Microsoft offer while you were at S3?

3 A well, again, I don't -- I don't know what  
4 they offered. When I first got there in '97, the  
5 primary system was windows 95. But I think that we  
6 still had compatible with windows 3.1, maybe 3.0. I  
7 think those were still supported. Of course, there  
8 are many marketing flavors of each of those with  
9 different capabilities that are involved.

10 Enterprise Editions, Home Editions, whatnot. And  
11 then there were a couple of versions of windows NT  
12 that we worked with. I think probably 3.0, 3.1,  
13 4.0. And somewhere around 2002, I think I was still  
14 there, was the commercial release of windows XP.  
15 And then again, sometimes there were, you know,  
16 second and third editions of some of those as well.

17 Q Did Microsoft ever give you access to its  
18 source code for any of the versions of windows?

19 A I don't think we had access to the entirety  
20 of the source code, but we had access to portions of  
21 source code, I believe. I didn't personally.

22 Q And what was the purpose of Microsoft  
23 providing you portions of the source code?

24 A They would produce what they called DDKs,  
25 Driver Development Kits, that you would license

1 under NDA. They would include example drivers. And  
2 you would typically, rather than starting from  
3 scratch, add features to the example driver.

4 Q Got it. So it was to help S3 build the  
5 drivers for its chips; is that right?

6 A Correct. There may have been others as  
7 well. I mean, again, we had a relationship where if  
8 they felt the source code would be beneficial to  
9 getting our product to market, they would make it  
10 available to our engineers. So there might have  
11 been things like test suites or DVD playback, those  
12 kinds of thing where -- if they felt it was  
13 beneficial, they would make the source code  
14 available.

15 Q How difficult would it have been to have  
16 created the drivers without the source code?

17 A I don't know. It certainly would have been  
18 more expensive. Graphics drivers are  
19 extraordinarily complicated as compared to other  
20 kinds of drivers. I mean, I have created other  
21 kinds of drivers for windows from scratch. Myself,  
22 as an individual.

23 Q Are you being compensated for your time in  
24 this matter at \$650 per hour?

25 A Yes.

1 Q And how many hours did you spend from the  
2 time you were engaged by HP until the time that you  
3 signed your declaration?

4 A I don't recall.

5 Q How many hours have you spent preparing for  
6 this deposition?

7 A I don't know.

8 Q What did you do to prepare for the  
9 deposition?

10 A Well, it started when I was retained,  
11 right. So I read all of the patents. I read prior  
12 art. I looked for extrinsic evidence. I discussed  
13 what I had found and what I had observed with  
14 counsel. And then I ended up preparing my  
15 declaration. Since then, I've read the Patent  
16 Office's decisions. I've read some of the materials  
17 that the patent owner has put in the record. At one  
18 point, I looked at portions of the file history.  
19 And then more recently, I met with counsel, I  
20 believe on three occasions, just to talk through  
21 some of what was in those documents.

22 Q Okay. And when was the last time that you  
23 met with counsel?

24 A Yesterday.

25 Q If you turn to page 16 of your declaration.

1 It begins section II. Let me know when you're  
2 there.

3 A Okay.

4 Q Section II is your understanding of the  
5 relevant legal principles; is that right?

6 A It's what counsel asked me to assume is my  
7 understanding for purposes of this petition.

8 Q Gotcha. So you're not a lawyer; right?

9 A I am not.

10 Q And so I'm not going to ask you any  
11 questions about what the law is. But I do want to  
12 ask you some questions about what your understanding  
13 of the law is. Is that fair?

14 A Sure.

15 Q So one of -- one of the things -- strike  
16 that.

17 You understand that your assessment of the  
18 claims of the '844 patent had to be from the  
19 perspective of a person having ordinary skill in the  
20 art; is that right?

21 A Yes. Especially for the purposes of  
22 determining whether or not there's invalidity.

23 Q Right. And the person of ordinary skill in  
24 the art, the level of skill is evaluated at the  
25 priority date of the '844 patent. Is that your

1 understanding?

2 A Yeah. Or applied at that date, yes.

3 Q Okay. And what was the date that you  
4 applied for your analysis?

5 A I think I have that in here. To scroll  
6 through these documents, you have to do one page at  
7 a time. Let me take a peek at my paper copy. It  
8 might be quicker.

9 I think I used the April 1st, 2008, date.  
10 But I wouldn't have had any different opinion if I had  
11 used the July 10th, 2008, date.

12 Q Okay. In your declaration, sometimes you  
13 use the acronym POSITA to mean a person of ordinary  
14 skill in the art as of that date that you just  
15 mentioned, the '844 patent; is that right?

16 A Yes.

17 Q And sometimes the acronym POSA is also used  
18 to have the same meaning; right?

19 A Yes.

20 Q If I use POSITA or POSA during this  
21 deposition, you will understand that is synonymous  
22 as a person of ordinary skill as of the priority  
23 date of the '844 patent; right?

24 A Yes.

25 Q Did you understand that in forming your

1 opinions, that POSITA is a hypothetical person that  
2 has the knowledge of all of the prior art in the  
3 relevant field and takes from each reference what it  
4 would teach to a POSITA; is that right?

5 A I'm not sure what you mean by the word  
6 takes. I certainly understand that it is a  
7 hypothetical person who has knowledge of all of the  
8 art in the field at the time and would be familiar  
9 with it and able to combine it using ordinary  
10 creativity and ordinary engineering skill.

11 Q Okay. You understand that patent claim may  
12 be anticipated if each element of that claim is  
13 present either explicitly or inherently in a single  
14 prior art reference; right?

15 A Right. As that reference would be --

16 MR. HEINTZ: Hold on. Sorry. Hold on.

17 Objection. Form.

18 Please go ahead.

19 THE WITNESS: Yes. As that reference would  
20 be understood by a person of ordinary skill in the  
21 art.

22 BY MR. BALICH:

23 Q would you agree that none of the prior art  
24 that you cited in your declaration anticipates any  
25 of the claims of the '844 patent?

1           A     I haven't rendered an opinion on  
2 anticipation, so I haven't made that determination.

3           Q     Okay. Is it your understanding that a  
4 claim can be obvious if -- strike that.

5                     Is it your understanding that in an IPR  
6 proceeding, petitioner has the burden to show a  
7 claim is obvious?

8           A     Yes.

9           Q     And what's your -- what is -- strike that.  
10                    what is your understanding of what it means  
11 for a claim to be obvious?

12          A     I described that in paragraphs 30 through  
13 49. But in very brief summary, it would mean that a  
14 person of ordinary skill in the art would have a  
15 reason to combine those one or more -- to -- let me  
16 take a step back. Because there are different ways  
17 it can happen. But it would mean that if you're  
18 talking about multiple references, as I am in this  
19 petition, that a person of ordinary skill would have  
20 a reason to combine those references, would be able  
21 to do so, and would find that in combination, each  
22 and every element of a claim was obvious to that  
23 person of ordinary skill. Either because it was  
24 explicit in the combination or suggested in a way  
25 that it would be obvious to the person of ordinary

1 skill.

2 Q Okay. If we could jump to page 57 of your  
3 declaration. Let me know when you're there.

4 A Okay. Oh, wait a minute. Sorry. I got  
5 mixed up on the paging again.

6 Q Okay. To be clear, I'm using the page  
7 number that is in the bottom right-hand corner.

8 A You're talking about Ground 1.

9 Q Yes. Correct. So Ground 1 combines Lane  
10 and Pogue; is that correct?

11 A Yes, for certain claims.

12 Q And you list those claims at the beginning  
13 of paragraph 101?

14 A Yes.

15 Q So if you look at the last sentence of  
16 paragraph 101, on page 58, that states that Ground 1  
17 is, "Lane's computer running the XP Pro operating  
18 system as taught in Pogue." Did I read that  
19 correctly?

20 A Yes.

21 Q So is it your opinion that for Ground 1, a  
22 POSA would run XP Pro as taught in Pogue on Lane's  
23 computer?

24 A Yes. XP Pro came in various editions and  
25 versions, but they would definitely run one of them.

1           Q     Explicitly, you say that it is the one  
2 described by Pogue; is that correct?

3           A     No. It would be any edition that is  
4 represented by the description in Pogue. Pogue  
5 doesn't limit himself to an individual edition.  
6 Microsoft marketed XP Pro under a variety of names,  
7 all of which were completely consistent with the  
8 disclosure in Pogue -- Pogue.

9           Q     Pogue is the only reference that you cite  
10 as disclosing the features of windows XP Pro; is  
11 that right?

12          A     Yes. As disclosing the features that I  
13 rely on, that's correct.

14          Q     Okay. Now, in your declaration, you don't  
15 offer an opinion that POSITAS would run the windows  
16 tablet PC edition; right?

17          A     I don't think I mention it by name, but a  
18 person of ordinary skill in the art would have known  
19 that what was marketed as windows XP Tablet Edition  
20 in -- in the 2008 time frame was windows XP Pro with  
21 some extra software included. It was a marketing  
22 name.

23          Q     Okay. But you don't mention the windows  
24 Tablet PC Edition in your declaration; is that  
25 right?

1           A     Not by name because it is XP Pro.

2           Q     And Pogue doesn't mention the name Windows  
3 Tablet PC Edition; right?

4           A     No. Not that I'm aware of. He also  
5 doesn't mention the Enterprise Edition. Again,  
6 Microsoft had many marketing names for XP Pro. He  
7 describes the technology.

8           Q     So then Pogue would accurately describe the  
9 Windows Tablet PC Edition as well?

10          A     Certainly everything that I relied on in  
11 Pogue would have been in the Windows XP Tablet  
12 edition as of April 1, 2008, because it was XP Pro  
13 with some additional software included in a bundle.

14          Q     Pogue doesn't disclose anything about the  
15 additional software in Windows Tablet PC Edition; is  
16 that right?

17          A     That's correct. But, again, I didn't rely  
18 on Pogue for any of that additional software. I  
19 relied on Pogue for its description of how certain  
20 icons and folders would appear on the screen.

21          Q     And you've got the same opinions for  
22 Grounds 2 through 6, that POSITAS would have run  
23 Windows XP Pro as taught in Pogue on Lane's  
24 computer; is that right?

25          A     Correct. And, again, POSITA would have

1 known how to implement what's disclosed here using  
2 any of the versions of XP Pro, including the Tablet  
3 Edition.

4 Q But, again, you don't mention the edition  
5 in your declaration; is that right?

6 A No. Because, again, it is XP Pro. It is  
7 just a marketing name.

8 Q You're not offering an opinion that POSAs  
9 would have modified windows XP Pro as taught in  
10 Pogue before running it on Lane's computer; is that  
11 right?

12 A They would not have modified XP Pro, but  
13 they would have used it in the ordinary way that a  
14 user would use it, which would mean going through  
15 the regular setup and configuration, installing the  
16 appropriate drivers. Pogue teaches how to install  
17 drivers. Pogue teaches how to do setup. You would  
18 use it in the ordinary way, but you wouldn't -- you  
19 wouldn't modify it in a way that wasn't understood  
20 to be normal operation of XP Pro.

21 Q Got it. So you don't have an opinion in  
22 your declaration that POSAs would have modified  
23 windows XP Pro?

24 A well, again --

25 MR. HEINTZ: Object to form.

1           THE WITNESS: -- it depends what you mean  
2 by modify. I mean, clearly when one uses an  
3 operating system, one drags icons into certain  
4 positions. One customizes it to their own use.  
5 Those are normal functions. One installs  
6 applications. One installs drivers. One makes  
7 setup selections, creates an account. Those are all  
8 things that are taught in Pogue. They're all normal  
9 usage. They're all within the scope of what a  
10 person of ordinary skill would understand. But they  
11 would not need to modify the operating system code  
12 itself beyond those kinds of normal things.

13 BY MR. BALICH:

14       Q     Okay. Your report doesn't identify any  
15 knowledge a POSA would have had of windows XP Pro,  
16 apart from Pogue's disclosure of it; is that right?

17       A     I don't know if it specifically says it,  
18 but clearly windows was the best known operating  
19 system in the world at that time. I believe it had  
20 over 90 percent market share. There would have been  
21 common things that a person of ordinary skill would  
22 have understood that -- that they would not -- would  
23 not have needed to pull specifically from Pogue.

24       Q     But Pogue is the only reference that you  
25 cite as disclosing the features of windows XP Pro;

1 is that right?

2 A Correct. But, again, it's from the  
3 perspective of a person of ordinary skill in the  
4 art, who knows how to use a computer. So, I mean, I  
5 didn't cite that you have to turn the computer on,  
6 right. I assumed a common ordinary base level of  
7 knowledge.

8 Q Was there any other -- strike that.

9 Pogue is the only reference that you cite as  
10 what a POSA would have known about Windows XP Pro; is  
11 that right?

12 A I think it's the same question. Again,  
13 that's -- the only one that I cite specifically.  
14 But I did this from the perspective of a person of  
15 ordinary skill in the art who would have had a basic  
16 understanding of the most popular operating system  
17 at the time and how to ordinarily use a computer at  
18 the time.

19 Q Specifically your report doesn't identify  
20 any knowledge that a POSA would have had about the  
21 compatibility of Windows XP Pro with touchscreens  
22 outside of Lane and Pogue; is that right?

23 MR. HEINTZ: Objection. Form.

24 THE WITNESS: I mean, that was just a  
25 feature of Windows. Right. I didn't cite to the

1 fact that windows worked with a keyboard or a mouse  
2 either. I didn't cite to the fact that -- that, you  
3 know, the text is readable in English. You know,  
4 again, I assume there is a baseline of knowledge  
5 that a person of ordinary skill in the art would  
6 have had. And I went to Pogue for the specifics of  
7 the claim. Certainly a person of ordinary skill in  
8 the art would have understood -- and this is part of  
9 the motivations that I described for combining with  
10 Pogue -- that it was the most common laptop  
11 operating system at the time, and it was compatible  
12 with the hardware that was generally available in  
13 laptops at the time, including a wide variety of  
14 input devices, a wide variety of output devices,  
15 such as pen input, touchscreens, mice, and graphic  
16 LCD displays.

17 BY MR. BALICH:

18 Q You don't cite anything about compatibility  
19 of windows XP Pro with touchscreens specifically;  
20 right?

21 MR. HEINTZ: Objection. Form.

22 THE WITNESS: I don't recall. Again,  
23 windows XP Pro was known at the time to be  
24 compatible with a wide variety of computer systems,  
25 including laptops with touchscreens and pen input

1 devices. And -- and desktops as well that also had  
2 touchscreens.

3 BY MR. BALICH:

4 Q And so if you did cite anything about POSAs  
5 knowledge of the compatibility of windows XP Pro  
6 with touchscreens, you would have put it in your  
7 declaration; right?

8 MR. HEINTZ: Objection. Form.

9 THE WITNESS: No, again, I didn't go  
10 through and -- and demonstrate that the operating  
11 system was compatible with each and every aspect of  
12 the computer hardware. A person of ordinary skill  
13 would have just known that and it would have been  
14 part of their baseline knowledge. I didn't show  
15 that it was compatible with the display. I didn't  
16 show that it was compatible with the keyboard. I  
17 didn't show it was compatible with a battery because  
18 that's just base knowledge that a person of ordinary  
19 skill would have had. And a touchscreen is the same  
20 way.

21 BY MR. BALICH:

22 Q So you didn't show windows XP Pro was  
23 compatible with a touchscreen; right?

24 MR. HEINTZ: Objection, form.

25 THE WITNESS: No, I think I did. Just

1 by -- by showing that there were touchscreen laptops  
2 out there and windows XP Pro was the most common  
3 operating system. we're talking about a time where  
4 windows operating systems had been used for  
5 touchscreens and pen inputs for 15 years. This  
6 wasn't new knowledge at the time. So, again, as  
7 part of the baseline knowledge of the person of  
8 ordinary skill would have.

9 BY MR. BALICH:

10 Q where in your report did you show that  
11 windows XP Pro was compatible with touchscreens?

12 A I don't think I called that out  
13 specifically. I showed that -- you know, I  
14 referenced from how it is explained in Pogue that it  
15 is compatible with the computers of the day. And  
16 those computers would have included pen input and  
17 touchscreen. we know that from the other  
18 references. And a person of ordinary skill would  
19 have known that from the market. Again, I did not  
20 try to describe a person of ordinary skill's  
21 knowledge of every aspect of how a computer works.

22 (Wolfe Exhibit 1007 was electronically  
23 received and marked for identification  
24 by the deposition officer.)  
25

1 BY MR. BALICH:

2 Q I'm going to -- in AgileLaw, you should see  
3 two additional documents. Is that right?

4 A Okay.

5 Q Do you see them?

6 A I do.

7 Q And the first one has the title Exhibit  
8 1007, windows XP Pro, The Missing Manual, Pogue  
9 pages 1 through 300. Do you see that?

10 A Yes.

11 Q And the second document has the title  
12 Exhibit 1007, windows XP Pro, The Missing Manual,  
13 Pogue pages 301 through 706. Do you see that?

14 A I can't see the titles, but I can see that  
15 that seems to be what it is.

16 Q So I'll represent to you that those two  
17 documents, 3 and 4, are what was provided as  
18 Exhibit 1007. They have to be split up into two  
19 different parts because of the -- of their size.

20 A My understanding is that there were seven  
21 parts of Exhibit 1007.

22 Q Correct. So the Documents 3 and 4 have all  
23 of the seven parts.

24 A Oh. Okay. Okay. I got it.

25 Q So if you could take a look at Document 3,

1 which is the first 300 pages of Exhibit 1007, and  
2 let me know when --

3 A I have -- I have the book in front of me.

4 Q Okay. And I just want to point out that,  
5 like your declaration, there's a page number at the  
6 bottom left that was applied when the exhibit number  
7 was applied. Do you see that?

8 A Okay.

9 Q So when I refer to a particular page in  
10 Exhibit 1007, I'm going to refer to that page number  
11 as opposed to whatever page number Pogue had  
12 originally. Is that fair?

13 A Understood.

14 Q Okay. So if you could turn to page 23 of  
15 Pogue. And let me know when you're there.

16 A Okay.

17 Q Do you see the setting -- the heading that  
18 says, "Every piece of hardware requires software"?

19 A Yes.

20 Q And Pogue states, "when computer geeks talk  
21 about their drivers, they're not talking about their  
22 chauffeurs (unless they're Bill Gates); they're  
23 talking about the controlling software required by  
24 every hardware component of a PC."

25 Did I read that correctly?

1           A     Yes.

2           Q     So Pogue teaches that every hardware  
3 component of a PC requires controlling software  
4 called a driver; is that right?

5           A     Yes. I think to be perfectly accurate, it  
6 would be that most do. But -- but for everything  
7 that he cares about at this point in discussion,  
8 they all do.

9           Q     In the next paragraph, Pogue teaches that  
10 without the correct driver software, the  
11 corresponding piece of equipment doesn't work at  
12 all; is that right?

13          A     That is what he says.

14          Q     So a POSA reading Pogue would understand  
15 that they would need the correct driver for a piece  
16 of equipment to work with windows XP Pro; is that  
17 right?

18          A     Again, for a person who had experience,  
19 they would understand that sometimes there are  
20 different levels of drivers. Right. There's a  
21 basic mouse driver or an advanced mouse driver that  
22 has all of the features of your mouse. So you don't  
23 always need the exact recommended driver to have any  
24 functionality. But for a large class of  
25 input/output devices, you do need a driver to get

1 some or all functionality of a device. And that's  
2 why windows XP comes with more than 10,000 drivers.  
3 And it is also why hardware manufacturers at the  
4 time would have supplied drivers or did supply  
5 drivers with their hardware. And it is also why at  
6 the time an average user was capable of installing a  
7 driver.

8 Q So if there was no driver at all, then the  
9 hardware wouldn't work with windows XP Pro; is that  
10 right?

11 A Not completely true. I mean, for example,  
12 your keyboard would still let you type without a  
13 driver. But -- but for sophisticated hardware to  
14 get its full functionality, you would have a driver.  
15 And typically you would have a driver for every  
16 substantial piece of hardware in a windows computer  
17 at that time. You may not know that you had the  
18 driver because it may have been built into windows  
19 and automatically installed. Or it may have been  
20 installed as part of your initial configuration of  
21 the machine. Or it may have been installed by the  
22 OEM, by the person who supplied the computer, the  
23 HP, Dell, Lenovo, whoever configured the computer  
24 before you bought it.

25 Q That same paragraph lists several pieces of

1 equipment that could be used with a PC; right?

2 A There's an open-ended list.

3 Q And that list includes a mouse, keyboard,  
4 screen, CD-ROM drive, scanner, digital camera, and  
5 palmtop; right?

6 A Those are the listed ones. And then it  
7 says "and so on" because there are many kinds.

8 Q Okay. And one of the listed items is a  
9 mouse?

10 A Yes.

11 Q And Pogue discloses how a mouse is  
12 configured to permit a user to manipulate operating  
13 parameters of the computer; is that right?

14 A I'm not familiar off the top of my head  
15 with exactly where he does that. But I would expect  
16 that that's probably the case.

17 Q Pogue discloses how -- well, strike that.  
18 So, for example, if you turn to page 19 of  
19 Pogue -- and let me know when you're there.

20 A Okay.

21 Q On page 19, there's a heading that says,  
22 "The right mouse button is king"; is that right?

23 A Yes.

24 Q And that section describes how windows XP  
25 Pro reacts to clicking the right mouse button;

1 right?

2 A Correct.

3 Q Clicking the right mouse button brings up a  
4 shortcut menu with commands such as cut and copy; is  
5 that right?

6 A Under certain circumstances, yes.

7 Q The shortcut menu when right-clicking on a  
8 folder includes the ability to change the sharing  
9 and security settings of the folder; right?

10 A In a default configuration, yes.

11 Q So Pogue discloses how a mouse is  
12 configured to permit a user to manipulate the  
13 operating parameters and the content of a computer  
14 running Windows XP Pro; right?

15 A It depends what you mean by operating  
16 parameters and content.

17 Q well, what's your understanding of what  
18 operating parameters are?

19 A In the claims of the '844?

20 Q Yeah.

21 A Staying in the context of the claim, it  
22 probably just means a -- any kind of a setting.

23 Q And what's your understanding of a content  
24 displayed in the context of the '844 patent?

25 A I think it can be the contents of any kind

1 of a document or -- or even the contents of a  
2 folder.

3 Q So using those understandings, Pogue  
4 discloses how a mouse is configured to permit a user  
5 to manipulate the operating parameters and content  
6 of a computer running Windows XP Pro; right?

7 A Yes.

8 Q And this section on page 19 isn't the only  
9 place that Pogue discloses how a mouse is configured  
10 to manipulate operating parameters and content;  
11 right?

12 A Correct.

13 Q If you turn back to the list on page 23.  
14 Let me know when you're there.

15 A Okay.

16 Q Pogue also lists the keyboard as one of the  
17 pieces of equipment that a driver is required for;  
18 is that right?

19 A Correct.

20 Q And Pogue discloses how a keyboard is  
21 configured to permit a user to manipulate operating  
22 parameters of the computer; right?

23 A Again, I can't point you immediately to a  
24 location, but I expect that he does.

25 Q Okay. So if you go to page 21 of Pogue.

1 Let me know when you're there.

2 A Okay.

3 Q There's a heading that says you can use the  
4 keyboard for everything; is that correct?

5 A Correct.

6 Q And on page 21, Pogue discloses an example  
7 of how you might print two copies of the document  
8 without using the mouse; is that right?

9 A Correct.

10 Q Pogue discloses that using -- you can use  
11 the keyboard to copy by pressing control plus with  
12 the letter C; is that right?

13 A On this page? I don't see that on this  
14 page.

15 Q Let's see here. If you go to page 140.

16 A 140?

17 Q Correct.

18 A Yes.

19 Q 140 Pogue discloses that using a keyboard  
20 to copy by pressing control plus the letter C; is  
21 that right?

22 A Correct.

23 Q And Pogue discloses using a keyboard to  
24 paste by pressing control plus the letter V; is that  
25 right?

1 A Correct.

2 Q So Pogue discloses how a keyboard is  
3 configured to permit a user to manipulate operating  
4 parameters and the content displayed by a computer  
5 running windows XP Pro; is that right?

6 A Yes.

7 Q And if you go back to page 23. Let me know  
8 when you're there.

9 A Okay.

10 Q Pogue lists a screen as a hardware device  
11 that requires a driver; right?

12 A Yes.

13 Q A screen is synonymous with a monitor; is  
14 that correct?

15 A I don't know. I mean, I -- I -- at the  
16 time I would have commonly heard people refer to a  
17 laptop screen as a screen. They wouldn't have  
18 called it a monitor.

19 Q But a screen displays content on a  
20 computer; is that right?

21 A A screen displays content. And, again, at  
22 that time, some screens also had input devices built  
23 into them.

24 Q Specifically touchscreens did; right?

25 A Touchscreens, pen input, both.

1           Q     So a screen that was not a touchscreen  
2 would not be configured to permit a user to  
3 manipulate parameters and content displays; right?

4           MR. HEINTZ: Objection. Form.

5           THE WITNESS: At that time, a laptop screen  
6 might have included a physical brightness control or  
7 some other things that would allow you to manipulate  
8 certain things.

9 BY MR. BALICH:

10          Q     You're describing a physical button that is  
11 not part of the screen itself; right?

12          MR. HEINTZ: Objection. Form.

13          THE WITNESS: It would appear to -- a  
14 typical user being part of the screen. I guess it  
15 was adjacent to the display portion and part of the  
16 top. Part of the laptop that you would look at.

17 BY MR. BALICH:

18          Q     Got it. So it is the display portion of  
19 the screen that displays the content; is that right?

20          A     There would be a displayed portion of the  
21 screen that displays the content.

22          Q     Okay. So for a screen that's not a  
23 touchscreen, the display portion would not permit a  
24 user to manipulate operating parameters and content  
25 displayed; is that right?

1           A     It would if it was a pen-input screen.

2           Q     So for screens that were not touchscreens  
3 or pen-input screens, those screens are not  
4 configured to permit the user to manipulate  
5 operating parameters and content displayed; is that  
6 right?

7           A     As of 2008, as best as I know, that's  
8 correct.

9           Q     Okay. On page 23 of Pogue, Pogue discloses  
10 that windows XP comes with drivers for over 12,000  
11 components; is that right?

12          A     Yes.

13          Q     But Pogue does not disclose the driver for  
14 a touchscreen; is that right?

15          A     Not by name. He doesn't enumerate those  
16 12,000 components. As I mentioned before, there  
17 were many, many things that had built-in drivers  
18 with XP. And for things that did not, you would get  
19 the driver from the manufacturer or from the -- from  
20 the component supplier. So, for example, at that  
21 time, you could get a laptop with a touchscreen or  
22 pen input, and it would be preconfigured with the  
23 driver. Not by Microsoft, but by Lenovo, for  
24 example. Or if you were to get the touchscreen from  
25 a third party -- I worked with 3M at the time.

1 There was a competitor called ILO Graphics. If you  
2 wanted to use their products with XP, the drivers  
3 would come with them. There were lots of different  
4 device -- input devices at the time. I think that's  
5 the idea of so on, that they're all mouse  
6 compatible. Trackballs, trackpads, touchscreens.  
7 All of those were available built into commercially  
8 available computers. And the drivers would be  
9 supplied by the computer supplier.

10 Q I'm going to object to the answer and move  
11 to strike as being nonresponsive to my question.

12 I asked specifically --

13 MR. HEINTZ: Objection. Objection to form.  
14 Go ahead.

15 BY MR. BALICH:

16 Q Pogue does not disclose a driver for a  
17 touchscreen; is that right?

18 MR. HEINTZ: Objection. Form.

19 THE WITNESS: Pogue describes that there  
20 are drivers for over 12,000 components. He doesn't  
21 say whether or not touchscreens are a part of that  
22 screen. But a person of ordinary skill would  
23 certainly know how to get a driver for a  
24 touchscreen.

25 MR. BALICH: I'm going to object to that

1 answer as nonresponsive and move to strike.

2 Q I'm asking, does Pogue disclose the driver  
3 for a touchscreen?

4 MR. HEINTZ: Objection. Form.

5 THE WITNESS: He describes drivers for over  
6 12,000 components. Without going in and getting  
7 that list from Microsoft, I can't determine  
8 whether -- what -- what is in that set of components  
9 and what is not.

10 BY MR. BALICH:

11 Q Pogue does not disclose a touchscreen would  
12 work on a computer running windows XP Pro; is that  
13 right?

14 MR. HEINTZ: Objection. Form.

15 THE WITNESS: Not by name. But he does  
16 explain that there are many, many different kinds of  
17 devices that work with computers, many kinds of  
18 input and output devices. And a person of ordinary  
19 skill would understand that he is talking about the  
20 devices that are on the market at the time, which  
21 would include, as I said, trackpads, trackballs, and  
22 touchscreens, and pen inputs.

23 MR. BALICH: Again, I'm going to object to  
24 that answer as being nonresponsive.

25 I'm curious --

1           And move to strike, to be clear.

2           Q     Pogue does not disclose that a touchscreen  
3 would work on a computer running windows XP 4 --  
4 XP Pro; is that right?

5           MR. HEINTZ: Objection. Form.

6           THE WITNESS: I think he does to a person  
7 of ordinary skill in the art. He discloses  
8 open-ended lists of peripherals. Open-ended lists  
9 of input devices. And he explains that drivers can  
10 be added. He makes comments like on page -- I think  
11 maybe it was page 140 that you had pointed me to --  
12 nope. Let's see. Maybe it is page 21. That  
13 there's more than one way to do everything on a  
14 windows PC. So I think he does disclose this to a  
15 person of ordinary skill when he discloses all of  
16 these open-ended concepts.

17 BY MR. BALICH:

18          Q     Pogue doesn't use the word touchscreen; is  
19 that right?

20          A     I don't recall Pogue using the word  
21 touchscreen.

22          Q     Pogue doesn't disclose how to copy using a  
23 touchscreen; is that right?

24          A     He does because a touchscreen is a mouse  
25 substitute. So what he teaches about using a mouse

1 would be understood by a person of ordinary skill in  
2 the art to be equally applicable to a trackball or a  
3 touchpad or a pen input or a touchscreen.

4 Q Pogue doesn't mention trackball; is that  
5 right?

6 A I don't recall.

7 Q Pogue doesn't mention touchpad; is that  
8 right?

9 A I don't recall.

10 Q Pogue doesn't disclose that windows XP Pro  
11 is compatible with touchscreens specifically; is  
12 that right?

13 A Again, I think he certainly suggests that  
14 to a person of ordinary skill in the art where he  
15 talks about it being compatible with thousands of  
16 kinds of hardware. And a person of ordinary skill  
17 in the art would understand that to include things  
18 that were commonly available on a laptop at the  
19 time, including a touchscreen.

20 Q So for a touchscreen to be compatible with  
21 windows XP Pro, it would have needed a driver; is  
22 that right?

23 A Correct. But that driver would have been  
24 readily available.

25 Q Pogue doesn't disclose a driver for a

1 touchscreen; is that correct?

2 A Again, I think he does to a person of  
3 ordinary skill in the art. He essentially teaches  
4 if you need to add a piece of hardware, you would  
5 simply add the driver along with it.

6 Q But, again, Pogue never uses the word  
7 touchscreen; is that right?

8 A I don't recall him using that word. A  
9 person of ordinary skill would have known that was  
10 one of the pieces of hardware that you could use.

11 Q Do you provide that opinion in your expert  
12 report?

13 A No. I think I provide a somewhat more  
14 specific opinion in my expert report, which is that  
15 Lane suggests the use of a touchscreen. And a  
16 person of ordinary skill would have known how to  
17 combine that with Pogue.

18 Q Do you opine in your report that windows XP  
19 Pro was compatible with touchscreens?

20 A I don't know if I say it explicitly, but I  
21 say that a person of ordinary skill in the art would  
22 have known how to use them together based on the  
23 teachings of Pogue and Lane. And I continue to  
24 maintain that, that a person of ordinary skill in  
25 the art would have known how to combine, the same

1 way they would know how to add a mouse or add a  
2 thumb drive or add a printer.

3 Q And where do you say that in your expert  
4 report?

5 A Paragraph 101. Among other things, "A  
6 POSITA would have had reasonable expectation of  
7 success in making this combination as windows XP Pro  
8 was widely used and explicitly specified minimum and  
9 recommended hardware requirements." And I'm sure I  
10 say some other things in that section about that as  
11 well.

12 Q And you cite Pogue; is that right?

13 A I cite Pogue, but I also explicitly say  
14 that this is something that a POSITA would have  
15 known how to do.

16 Q But the only evidence that you cite is  
17 Pogue; is that correct?

18 A well, I mention what a POSITA would have  
19 known how to do. I don't know what you -- what else  
20 you can cite for the knowledge of a POSITA. That's  
21 part of my opinion.

22 Q But Pogue is the only reference that you  
23 cite in your declaration as supporting that opinion;  
24 correct?

25 A No. In Ground 1, I talk about both Lane

1 and Pogue. And then I explain all the reasons why  
2 or some of the reasons at least why a POSITA would  
3 have been able to combine them and expected to have  
4 success. That certainly means that the portions of  
5 Lane that I rely on would have been operable. That  
6 would be my definition of success.

7 Q Do you explain in your declaration how  
8 Lane's pen-input device would be operable when  
9 running windows XP Pro as disclosed by Pogue?

10 MR. HEINTZ: Objection. Form.

11 THE WITNESS: I don't go into a great deal  
12 of detail. I don't explain how the CPU or the  
13 display would have been compatible either. Because,  
14 again, a person of ordinary skill in the art knows  
15 how to use an operating system with a laptop and, in  
16 particular, would have known how to use the most  
17 popular operating system in the world with a laptop.  
18 That would have included knowing how to install the  
19 appropriate drivers.

20 BY MR. BALICH:

21 Q And where specifically do you opine that  
22 POSA running XP Pro on Lane's computer or enabled an  
23 operation pen-input device?

24 A Again, I don't think I use that language.  
25 But what I say is they would have had a reasonable

1 expectation of success. In my mind, success in  
2 running an operating system on a laptop computer  
3 means that the primary components of that computer  
4 would be operable.

5 Q And what's the evidence that you cite to  
6 support that opinion?

7 A I cite to Lane and I cite to Pogue. And I  
8 explain some of the market reasons why a person of  
9 ordinary skill in the art would have been familiar  
10 with these technologies, why they would have been  
11 ordinary. And that leads to the expectation of  
12 success.

13 Q And which paragraph or paragraphs do you  
14 provide this opinion?

15 A For Ground 1, that is primarily in  
16 paragraph 101.

17 Q Is it in any other paragraph?

18 A I don't recall. Do you want me to look  
19 through everything?

20 Q Yes, please.

21 A I'm going to continue looking. But, you  
22 know, in my description of a person of ordinary  
23 skill in the art, I describe their -- their skills,  
24 which would mean that they're familiar with the  
25 structural hardware aspects of laptop computers and

1 the design of user interfaces. Somebody who was  
2 familiar with the design and architecture of laptop  
3 computers would have understood how to install an  
4 ordinary operating system and have it work with the  
5 various components.

6 Paragraph 102, I also discuss how the  
7 touchscreen or pen input would work in the  
8 combination. I think that certainly suggests that  
9 it's functional in the combination, that that's  
10 what a person of ordinary skill would understand.

11 And then in paragraph 143, for Ground 2, I  
12 explain how Hotelling further motivates the  
13 combination by explaining how one would be motivated  
14 to use a touchscreen to interact with a laptop  
15 computer. I think that's all.

16 Q Okay. So you mentioned paragraphs 101,  
17 102, and 143; is that correct?

18 A Yeah. There is a little bit in 142 as  
19 well.

20 Q 142.

21 Going back to paragraph 101. Let me know  
22 when you're there.

23 A Okay.

24 Q What evidence do you cite as supporting  
25 reasonable expectation that a touchscreen would work

1 when running windows XP Pro on Lane's computer, in  
2 that paragraph?

3 A I discuss -- I cite portions of Lane,  
4 including that it has associated software. I  
5 discuss the capabilities of a POSITA in setting up a  
6 computer with hardware and software. And I describe  
7 the fact that Pogue discloses the windows XP Pro  
8 operating system versions and what kind of minimal  
9 hardware is necessary to use them.

10 Q Do you cite anything other than Lane and  
11 Pogue?

12 A Yes. The capabilities of a person of  
13 ordinary skill in the art.

14 Q Let me rephrase that question because maybe  
15 I wasn't precise enough. Do you cite any other  
16 prior art references other than Lane and Pogue to  
17 support your opinion?

18 MR. HEINTZ: Objection. Form.

19 THE WITNESS: Those are the only prior art  
20 references that I cite. And I combine them with the  
21 capabilities of a POSITA.

22 BY MR. BALICH:

23 Q Okay. So looking at paragraph 102, what  
24 evidence do you cite in paragraph 102 that a POSITA  
25 would have had a reasonable expectation that a

1 touchscreen would work when running Pogue's windows  
2 XP Pro on Lane's computer?

3 A Again, I cite to Lane. I discuss the  
4 capabilities of a POSITA. And then I also explain  
5 that a POSITA would be further informed by certain  
6 citations from Shimano and Kurtenbach that show the  
7 use of a touchscreen in a laptop computer.

8 Q And that's in paragraph 103?

9 A Oh, I missed the -- I missed the extra  
10 paragraph number. Yes, that is in paragraph 103.

11 Q Okay. Do you cite any other prior art  
12 references other than Lane, Shimano, and Kurtenbach?

13 A Not in that paragraph. I cite those three  
14 and explain how they would be applied by a person of  
15 ordinary skill in the art.

16 Q Okay. Let's take a look at -- you said  
17 paragraph 142 is another place that you opine on the  
18 expectation of success. Is that correct?

19 A Yes. In particular, Hotelling's teaching  
20 that touchscreens are preferable to other input  
21 devices, such as touchpads and mice.

22 Q Okay. Do you cite anything other than  
23 Hotelling as supporting your opinion of a reasonable  
24 expectation of success?

25 A I do cite to Lane there as well to show the

1 things that a person of ordinary skill would attempt  
2 to select or manipulate using a device such as the  
3 one described in Hotelling.

4 Q Do you cite any other prior art references  
5 in paragraph 142 as supporting your expectation of  
6 success opinion?

7 A No.

8 Q And then the last paragraph you mentioned  
9 was 143. Is that right?

10 A Correct.

11 Q And what do you cite in paragraph 143 as  
12 supporting your opinion of a reasonable expectation  
13 of success?

14 A Hotelling and Lane in view of the knowledge  
15 of a person of ordinary skill in the art.

16 Q The only two prior art references that you  
17 cite are Hotelling and Lane; is that correct?

18 A Yes. Through the view a person of ordinary  
19 skill in the art.

20 MR. BALICH: We've been going about an  
21 hour. Do you want to take a break?

22 THE WITNESS: We can take a short break.

23 MR. BALICH: Okay. Let's go off the  
24 record.

25 (A recess was taken.)

1 BY MR. BALICH:

2 Q All right. Dr. Wolfe, if we could go back  
3 to paragraph 101 of your declaration. I think  
4 that's on page 57. Let me know when you're there.

5 A Okay.

6 Q In paragraph 101, you cite Pogue once at  
7 page 632. Is that correct?

8 A No. I also generally cite Pogue a few  
9 lines above that.

10 Q In the context of Windows XP Pro was in  
11 wide use; is that right?

12 A Yes. And more specifically that it was  
13 used in laptop computers at the time.

14 Q But that sentence does not relate to an  
15 expectation that Windows XP Pro would allow for an  
16 operational touchscreen; is that correct?

17 A Well, the whole paragraph explains why it  
18 would make sense to combine it with Lane and why one  
19 would have expectations of an operational computer.  
20 Individual sentences don't convey that, but the  
21 paragraph does.

22 Q Okay. And then in the next sentence, you  
23 explain that Windows XP Pro had minimum and  
24 recommended hardware requirements; is that right?

25 A Yes.

1           Q     where do you cite Lane as having those  
2     minimum hardware requirements?

3           A     I don't specifically, but a person of  
4     ordinary skill would have known how to validate that  
5     or how to find a laptop as disclosed in Lane that  
6     had those minimum hardware requirements. They were  
7     not in any way exotic. They were ordinary.

8           Q     Do you opine that Lane had those minimum  
9     hardware requirements?

10          A     In essence because I opine that a person of  
11     ordinary skill would have been able to combine XP  
12     Pro with Lane without any undue experimentation and  
13     with high expectation of success.

14          Q     In paragraph 101, do you ever mention a  
15     touchscreen being operable?

16          A     Not in that paragraph. But I do make it  
17     clear that I'm talking about combining it with -- I  
18     mention a pen-based computer. And I mention a  
19     laptop computer. And in my further discussion of  
20     Lane, I explain that the touchscreen or pen input  
21     would be a feature of Lane's embodiments.

22          Q     Let's move to paragraph 102. where in  
23     paragraph 102 do you describe an expectation that a  
24     touchscreen would be operable?

25          A     Page 51 I talk about Lane disclosing the

1 display 35 can be used for pen-based computing. I  
2 have a number of cites. And that a POSITA would  
3 have understood this to be a touchscreen or  
4 equivalent. Alternatively it would have been  
5 obvious for a POSITA to use a touchscreen. And I go  
6 on to explain a number of reasons why that would  
7 have been obvious and why it would have -- a person  
8 of ordinary skill would have understood or at least  
9 found obvious that the touchscreen and pen-based  
10 computing would be operable in the laptop, easel,  
11 and frame modes.

12 Q Okay. And that's paragraph 103; is that  
13 right?

14 A Oh, yeah. I'm sorry. I keep blending  
15 those two paragraphs together.

16 Q Is there anything in paragraph 102  
17 specifically that mentions the operability of a  
18 touchscreen?

19 A I don't think so. I think I'm mostly  
20 talking about the hinge in paragraph 102.

21 Q One question before I move to paragraph 103  
22 is in paragraph 102, you describe Lane's computer;  
23 is that right?

24 A I'm sorry. I missed a word there.

25 Q Sure. In paragraph 102, you describe

1 Lane's computer; is that correct?

2 A I don't think I use that phrase. I  
3 describe some of the teachings of Lane about the  
4 computer. And I mention a particular embodiment,  
5 portable computer 10.

6 Q So are you describing Lane's disclosures or  
7 are you explaining what the combination of Lane  
8 running windows XP Pro would teach?

9 A In paragraph 102?

10 Q Correct.

11 A Both. I'm describing the combination. But  
12 with respect to paragraph 102 alone, I'm describing  
13 teachings of Lane about that combination.

14 Q Okay. So for both paragraphs 102 and 103,  
15 you're describing how the combination of Lane  
16 running windows XP Pro as described by Pogue would  
17 operate; right?

18 A Yes.

19 Q Okay. Let's talk about paragraph 103 now.  
20 One of the prior art references that you cite is  
21 kurtenbach; correct?

22 A Correct.

23 Q And you cite kurtenbach after the sentence  
24 that businesses a POSITA would have understood or at  
25 least found it obvious that the touchscreen and

1 pen-based computing would be operable in all  
2 configurations; right? And I didn't read the rest  
3 of that sentence, but to the end of that sentence.  
4 Is that correct?

5 A Yes. This is -- Kurtenbach is illustrative  
6 of portions of the common knowledge of a person of  
7 ordinary skill at the time.

8 Q And Kurtenbach is the only piece of prior  
9 art reference that you cite as evidence of that  
10 common knowledge; is that right?

11 A So, again, this is a knowledgeable person  
12 of ordinary skill. I think it is suggested by Lane,  
13 I think it is suggested by Shimano, and then I also  
14 go on to specifically explain where it is suggested  
15 by Kurtenbach.

16 (Wolfe Exhibit 1015 was electronically  
17 received and marked for identification  
18 by the deposition officer.)

19 BY MR. BALICH:

20 Q So I put up on AgileLaw a document 5, which  
21 is Exhibit 1015. Have you seen that?

22 A Yes.

23 Q And that's Kurtenbach?

24 A Yes.

25 Q Kurtenbach is a U.S. patent issued in 1997;

1 correct?

2 A Yes.

3 Q windows XP Pro hadn't been introduced by  
4 1997; right?

5 A That's correct. But there were earlier  
6 versions of windows that had many of the same  
7 features and functions, including compatibility with  
8 touchscreens and pens. And those features remained  
9 in windows XP Pro.

10 Q Pogue is the only prior art reference that  
11 you cite as disclosing what is in windows XP Pro;  
12 correct?

13 A Pogue specifically talks about what is in  
14 XP Pro. But Kurtenbach, again, is illustrative of  
15 what a person of ordinary skill in the art would  
16 have known at the time. We're talking about a time  
17 where touchscreens were, ballpark, 40 years old,  
18 where tablets were already on the market, where the  
19 iPhone was already available, where laptop  
20 manufacturers had been including pen input and  
21 touchscreens in laptops for at least 15 years. So a  
22 person of ordinary skill would have understood how  
23 to use a touchscreen with a laptop computer. And  
24 Kurtenbach is just illustrative of some aspects of  
25 how a touchscreen would be used with a computer for

1 menus.

2 Q The computer described by Kurtenbach could  
3 not have been running windows XP Pro; is that right?

4 MR. HEINTZ: Objection. Form.

5 THE WITNESS: I don't know if we can reach  
6 that conclusion. I don't think Kurtenbach says  
7 anything that makes his computer incompatible with  
8 windows XP Pro. But clearly windows XP Pro didn't  
9 exist at the time. Earlier versions of windows did.

10 BY MR. BALICH:

11 Q Kurtenbach doesn't explain how windows XP  
12 Pro would operate, does it?

13 A No. And that's why I didn't rely on  
14 Kurtenbach alone. Kurtenbach is illustrative,  
15 again, of certain aspects of the knowledge of a  
16 person of ordinary skill in the art.

17 Q Kurtenbach doesn't explain how Lane's  
18 computer running windows XP Pro would operate;  
19 right?

20 A It explains aspects of it. Including how a  
21 person interacts with menus using a touchscreen  
22 rather than a mouse.

23 Q Kurtenbach doesn't explain whether Lane's  
24 computer running Pogue's windows XP Pro would have  
25 an operable touchscreen; right?

1           A     No. A person of ordinary skill in the art  
2 would have known how they -- a computer running XP  
3 Pro would have an operable touchscreen. And  
4 Kurtenbach is illustrative of some of the things  
5 that a typical user would do with that touchscreen.

6           Q     In Ground 1, you claim that certain claims  
7 are obvious over Lane and Pogue; right?

8           A     Yes. For a person of ordinary skill in the  
9 art.

10          Q     Okay. you're not providing an opinion that  
11 the claims are obvious over Lane, Pogue, and  
12 Kurtenbach; correct?

13          A     Correct. Kurtenbach is illustrative of  
14 portions of the knowledge of a person of ordinary  
15 skill in the art.

16          Q     And Kurtenbach never discloses whether  
17 windows XP Pro was capable of operable touchscreen;  
18 right?

19          A     Correct. A person of ordinary skill in the  
20 art would have already known that and would have  
21 known how to apply the knowledge that is consistent  
22 with Kurtenbach in that environment.

23          Q     You don't opine that a POSA would have been  
24 motivated to combine the teachings of Kurtenbach  
25 with Lane and Pogue; correct?

1 MR. HEINTZ: Objection. Form.

2 THE WITNESS: I think it would be  
3 misleading to agree with that. Because, again,  
4 kurtenbach is illustrative of the knowledge of a  
5 person of ordinary skill in the art. And a person  
6 of ordinary skill in the art in combining Lane and  
7 Pogue would have done it from their own perspective,  
8 incorporating their own knowledge.

9 BY MR. BALICH:

10 Q Okay. And another prior art reference that  
11 you cite in paragraph 103 of your declaration is  
12 Shimano; is that correct?

13 A Correct.

14 Q And specifically, you cite Shimano at  
15 column 1, lines 25 through 53, and column 3, line  
16 66, through column 4, line 18?

17 A Correct.

18 (Wolfe Exhibit 1008 was electronically  
19 received and marked for identification  
20 by the deposition officer.)

21 BY MR. BALICH:

22 Q In AgileLaw, I've got document 16 -- sorry.  
23 Document 8, which is Exhibit 1008. Do you see that?

24 A It's document 6 in my --

25 Q Oh, I'm sorry. You're right. Document 6

1 is Exhibit 1008.

2 A Yes.

3 Q Do I have that correct now?

4 A Correct.

5 Q And Exhibit 1008 is Shimano, as you cite in  
6 your declaration; right?

7 A It appears to be.

8 Q Shimano is a U.S. patent that was filed in  
9 2001; correct?

10 A Let me look.

11 Correct.

12 Q And windows XP Pro had not yet been  
13 introduced by 2001; correct?

14 A Correct. There were earlier versions of  
15 windows on random laptops that had many of the same  
16 capabilities. But windows XP Pro itself had not  
17 been introduced.

18 Q Shimano doesn't explain how windows XP Pro  
19 would operate; correct?

20 A It doesn't explain it, but, again, my  
21 understanding is that we should view it from the  
22 perspective of a person of ordinary skill in the art  
23 in 2008 would know the -- what -- what -- how  
24 windows XP operates.

25 Q Shimano doesn't explain how Lane's computer

1 running windows XP Pro would operate; right?

2 A It doesn't explain the entirety of it. But  
3 it explains aspects of how it would operate. In  
4 other words, it explains how the mouse could be used  
5 as the input device -- I'm sorry. How a touchscreen  
6 could be used as an input device as a substitute for  
7 a mouse. And from the perspective of a person of  
8 ordinary skill in the art in 2008, those teachings  
9 would all still be relevant. They would not have  
10 forgotten them or they would not have become  
11 obsolete.

12 Q Shimano doesn't explain how windows XP Pro,  
13 as disclosed by Pogue, would have had -- would have  
14 enabled the operation of a touchscreen, does it?

15 A From the perspective of a person of  
16 ordinary skill in the art, it does. Because it  
17 explains how a touchscreen can be used as a  
18 substitute for a mouse. And a person in 2008  
19 reading Pogue and understanding how a laptop works  
20 would put that in the proper context.

21 Q Shimano never mentions Windows XP Pro, does  
22 it?

23 A Correct. His teachings are applicable to  
24 many types of laptop computers.

25 Q Looking back at paragraph 103 of your

1 declaration. You don't specifically describe how  
2 touchscreens or pen-based computing would be  
3 operable on a computer running windows XP Pro; is  
4 that right?

5 A I'm not sure what you mean. It would be  
6 useful for input and interaction with icons and  
7 menus. I mentioned that. It is just well known as  
8 the operation of a touchscreen on a laptop at the  
9 time.

10 Q You don't mention windows XP Pro in  
11 paragraph 103 at all, do you?

12 A well, no. Because I've already discussed  
13 it in paragraph 101. Again, we're talking about the  
14 same computer system for each element. I didn't go  
15 back and redescribe the entire computer system for  
16 each element of the claim.

17 Q Okay. So specifically in paragraph 103,  
18 you don't describe how touchscreens would be  
19 operable on a computer running windows XP Pro; is  
20 that right?

21 MR. HEINTZ: Objection. Form.

22 THE WITNESS: I describe how it would be  
23 applicable on Lane's laptop computer, whether it was  
24 running windows XP Pro or not.

25

1 BY MR. BALICH:

2 Q Your opinions in paragraph 103 are  
3 independent of the operating system that Lane's  
4 computer is running?

5 A Strike that.

6 In the last sentence of paragraph 103, you  
7 state that, "A POSITA would have a reasonable  
8 expectation of success in so doing." Do you see that?

9 A Yes.

10 Q When you say "in so doing," are you  
11 referring to Lane's computer running windows XP Pro  
12 having operable touchscreens or pen-based computing?

13 A Yes. And more specifically enabling  
14 interaction with icons and menus.

15 Q Your reasoning for a reasonable expectation  
16 of success was that enabling the touchscreen and  
17 pen-based input was a simple design choice; is that  
18 right?

19 A Correct.

20 Q You don't cite any prior art evidence that  
21 enabling touchscreen and pen-based computing would  
22 be a simple design choice, do you?

23 MR. HEINTZ: Objection. Form.

24 THE WITNESS: I've cited three different  
25 patents from the time that disclose it as something

1 that was known in the art. I have also explained  
2 that a POSITA would know that it was known in the  
3 art at the time. Again, it was a 40-year-old  
4 technology by then.

5 BY MR. BALICH:

6 Q And by the three patents you mean Lane,  
7 Kurtenbach, and Shimano; is that correct?

8 A Yes. None of those three patents claim the  
9 touchscreen to be their invention. It is simply one  
10 of the components in their system.

11 Q And none of those three patents ever  
12 mention windows XP Pro; is that correct?

13 A Not by name. But they all would be  
14 understood by a person of ordinary skill in the art  
15 to be compatible with the most common operating  
16 system in 2008.

17 Q You understand that it is improper to  
18 determine obviousness using the benefit of  
19 hindsight; is that right?

20 A I understand that.

21 Q And you understand that one of the ways  
22 that one avoids hindsight is by citing evidence in  
23 the prior art to show what would be within the  
24 knowledge of the POSITA?

25 A I think -- I think it would be more

1 accurate to say one way that one demonstrates that  
2 one has not used hindsight could be to cite to art.

3 Q You don't cite any prior art that windows  
4 XP Pro enabled the operation of touchscreen; is that  
5 right?

6 A well, again, I cite art that says that  
7 there are thousands of devices that are supported by  
8 windows XP Pro. And I cited art that said that  
9 touchscreens were ordinary devices in laptop  
10 computers at a time. I think a person of ordinary  
11 skill in the art would have understood that to --  
12 to -- in combination to say that windows XP would be  
13 operable with a touchscreen. In addition, a person  
14 of ordinary skill in the art would have known that  
15 such products were on the market at the time.

16 Q But you don't cite any prior art evidence  
17 that an ordinary -- a person of ordinary skill in  
18 the art would have understood that the combination  
19 of windows XP Pro would enable the operation of a  
20 touchscreen; is that correct?

21 MR. HEINTZ: Objection. Form.

22 THE WITNESS: No. That's not correct. I  
23 think in combination, the art that I cited does show  
24 that. And as I mentioned, a person of ordinary  
25 skill would also know that those products were on

1 the market at the time.

2 BY MR. BALICH:

3 Q Go to page 87.

4 A 57?

5 Q 87. The beginning of paragraph 142. Let  
6 me know when you're there.

7 A Okay.

8 Q So pages 87 through 89 have four  
9 paragraphs; right?

10 Strike that. Let me ask a better question.  
11 Your section for Ground 2 spanning pages 87  
12 through 89 have only four paragraphs; correct?

13 A Correct. They refer back to the prior  
14 sections.

15 Q Correct. And those paragraphs are 141  
16 through 144?

17 A Correct.

18 Q And in Ground 2, you opine that POSAs would  
19 have been motivated to modify the Lane-Pogue  
20 combination to add a touchscreen; is that right?

21 MR. HEINTZ: Objection. Form.

22 THE WITNESS: I think what I'm saying is  
23 that my understanding as -- from the perspective of  
24 a person of ordinary skill in the art is that the  
25 Lane-Pogue combination would be operable in the

1 required physical configurations. The laptop,  
2 tablet, and frame mode. And -- but to the extent  
3 that the Board felt there was insufficient evidence  
4 of that, a person of ordinary skill in the art would  
5 combine it with Hotelling, which has additional  
6 teachings about how to use a touchscreen with a  
7 portable computing device.

8 BY MR. BALICH:

9 Q I think I got it. So for Ground 2, is the  
10 combination still Lane's computer running Pogue's  
11 Windows XP Pro?

12 A It is. And it still has Lane's  
13 touchscreen. But it makes it clear that Lane's --  
14 where Lane may only have a limited description of  
15 some aspects of its touchscreen, Hotelling makes it  
16 clear what an ordinary touchscreen at the time could  
17 do. I think a person of ordinary skill in the art  
18 would have known what an ordinary touchscreen at the  
19 time could do. They were on the market. But to the  
20 extent that a person of ordinary skill in the art  
21 would have chosen to look to the published art at  
22 the time, they could have gotten that information  
23 from Hotelling. And they would have.

24 Q And so you cite paragraphs 9 and 69 of  
25 Hotelling as evidence that POSAs would have expected

1 a Lane-Pogue combination to have operable  
2 touchscreens; is that right?

3 A Yes. Yes. From the perspective that you  
4 could touch something on the screen and interact  
5 with it.

6 (Wolfe Exhibit 1020 was electronically  
7 received and marked for identification  
8 by the deposition officer.)

9 BY MR. BALICH:

10 Q Okay. Let's take a look at Hotelling. I  
11 think I just shared with you a Document 7, Exhibit  
12 1020. Is that correct?

13 A Yes.

14 Q And Exhibit 1020 is Hotelling; correct?

15 A It appears to be.

16 Q If you look on the first page of Hotelling,  
17 the figure is a tablet computer; right?

18 A The cover figure is, yes.

19 Q And if you scroll down to Figure 6A, Figure  
20 6A shows a tablet computer as well; is that right?

21 A It does.

22 Q If you scroll to Figures 17A through E,  
23 each of Figure 17A through E shows a tablet  
24 computer; correct?

25 A Yes.

1 Q And if you scroll to Figures 19A through D,  
2 those figures show a tablet computer; correct?

3 A That's what is shown in those figures, yes.

4 Q Figures 21A through D all show a tablet  
5 computer; correct?

6 A Yes.

7 Q Figures 23A through D all show a tablet  
8 computer; is that right?

9 A Well, it is harder to tell from that one.  
10 But let me see if it says anything in the spec.  
11 23 has a display. It is not clear whether  
12 that is a display on a tablet or on some other device.

13 Q Okay. What about Figures 25A through D?  
14 Does Figures 25A through D show a tablet computer?

15 A Again, it's not clear. The position of the  
16 hands suggest that it's a computer in a tablet mode.  
17 But it could be a laptop with a tablet mode or it  
18 could be a tablet.

19 Q And then Figures 27A through D, those show  
20 a tablet computer; correct?

21 A Assuming those are the same computer, they  
22 do seem to be held as a tablet. Again, potentially  
23 it could be a laptop that is in a tablet mode. I  
24 don't recall anything in the specification that  
25 limits it to a tablet.

1           Q     None of the figures in Hotelling shows a  
2 computer in a laptop mode, for example.

3           A     I don't think the figures do. But, again,  
4 the bulk of the teaching is about how to use a  
5 touchscreen over a display without there being  
6 any -- anything specific limiting what kind of  
7 device that display is in. And I would have to  
8 look. Certainly the detailed description of the  
9 invention discusses many, many standards that are a  
10 laptop specific with respect to the -- with respect  
11 to the device.

12          Q     None of the figures in Hotelling shows a  
13 computer in an easel mode; is that right?

14          A     No. Again, the Hotelling patent is not  
15 about the display mode of a computer. It's about  
16 how a person of ordinary skill in the art would use  
17 a touchscreen to interact with an operating system  
18 and applications at the time.

19          Q     None of the figures in Hotelling shows a  
20 computer in a frame mode; correct?

21          A     Not that I can recall. Again, that's not  
22 the subject of Hotelling.

23          Q     If you go to page 54 of Hotelling. Page 54  
24 has paragraph 9; is that correct?

25          A     Tell me again what paragraph.

1 Q Paragraph 9.

2 A On page -- I must have misheard you. Page  
3 64?

4 Q 54. Sorry.

5 A Oh, 54.

6 Okay.

7 Q And paragraph 9 is one of the two  
8 paragraphs that you cited in your declaration; is  
9 that right?

10 A Correct.

11 Q Paragraph 9 explains the differences  
12 between touchscreens and touchpads; is that right?

13 A That explains one difference. There are  
14 also similarities.

15 Q Paragraph 9 doesn't express a preference  
16 for a touchscreen; is that right?

17 A Not in that paragraph, no.

18 Q Okay. If you go to page 57 of Hotelling.  
19 Let me know when you're there.

20 A Okay.

21 Q Page 57 has paragraph 69; is that correct?

22 A Yes.

23 Q And paragraph 69 is the other of the two  
24 paragraphs from Hotelling that you cite in your  
25 declaration?

1           A     Yes.

2           Q     Paragraph 69 doesn't mention any advantage  
3 of a touchscreen for a laptop specifically, does it?

4           A     It doesn't distinguish a laptop  
5 specifically. It talks about the way that a  
6 touchscreen can be used to interact with a graphical  
7 user interface. And it talks about some of the  
8 advantages that such an interaction would provide.

9           Q     Paragraph 69 doesn't mention any advantage  
10 of a touchscreen for a computer in a laptop mode; is  
11 that right?

12          A     It discusses displays generally. And  
13 displays running graphical user interfaces.  
14 Certainly a person of ordinary skill would  
15 understand that in this time frame, laptops had  
16 displays that ran graphical user interfaces. But  
17 paragraph 69 does not distinguish those from other  
18 computer systems that have displays with graphical  
19 user interfaces. It does refer to another patent  
20 that I don't have in front of me. Incorporates it  
21 by reference, actually.

22          Q     You don't cite that other patent in your  
23 declaration; is that correct?

24          A     Not specifically. Again, Hotelling is used  
25 in my declaration to teach the specifics of how one

1 would touch elements in a graphic user interface to  
2 interact with it.

3 Q If you turn back to page 1 of Hotelling.  
4 Hotelling is assigned to Apple Computer; is that  
5 correct?

6 A Yes.

7 Q And if you go to page 32 and 33, it shows  
8 figures 23A through 23D; is that correct?

9 A Yes.

10 Q Figures 23A through 23D each depict an  
11 Apple computer application; is that right?

12 A In an exemplary form, yes.

13 Q If you turn to page 56. And look at  
14 paragraph 65. Let me know when you're there.

15 A Yes.

16 Q Hotelling lists several operating systems  
17 in paragraph 65; is that correct?

18 A Correct.

19 Q And those operating systems include OS/2,  
20 DOS, Unix, Linux, and the Palm OS; is that right?

21 A Those are listed, but it also says "and the  
22 like." It is open-ended.

23 Q Okay. Hotelling doesn't list windows XP  
24 Pro as an operating system in paragraph 65; correct?

25 A No. But it is open-ended. And he also

1 says right above that, "Operating systems are  
2 generally well known and will not be described in  
3 greater detail." Of course, windows XP was the  
4 dominant operating system by the time of the  
5 issuance of this Hotelling reference. Near the  
6 publication. I'm sorry.

7 Q If you go to page 67 in Hotelling and take  
8 a look at paragraph 145. Let me know when you're  
9 there.

10 A Okay.

11 Q In paragraph 145, Hotelling discloses  
12 several applications that may be running on its  
13 device; is that right?

14 A Yes. In a permissive form.

15 Q And one of the listed applications is  
16 macOS; is that correct?

17 A Yes.

18 MR. HEINTZ: Objection. Form.

19 BY MR. BALICH:

20 Q Hotelling does not list windows XP Pro in  
21 paragraph 145; correct?

22 A It is not. Again, it is exemplary.

23 Q Hotelling doesn't anywhere mention the  
24 compatibility of its touchscreen with windows XP  
25 Pro; correct?

1           A     Not specifically. But, again, we're  
2 talking about a time in which a person of ordinary  
3 skill reading Hotelling would have understood that  
4 they can simply go out on the market and buy a  
5 windows XP Pro laptop with a touchscreen or a  
6 pen-input device. So it wasn't necessary for  
7 Hotelling to describe the details of every operating  
8 system. He explains that specifically that he is  
9 not going to do that. But it is clear that it is  
10 very open. If you look at, for example, paragraph  
11 66, he talks about things like the CGA, EGA, VGA,  
12 super VGA displays that are part of his embodiment.  
13 Those are not Apple technologies. Those are all  
14 windows PC technologies.

15           Q     Hotelling never mentions windows XP Pro  
16 specifically; correct?

17           A     Not specifically. He simply says that he  
18 doesn't need to describe all the operating systems.  
19 And he explains that the choice of an operating  
20 system is open-ended.

21           Q     And Hotelling never mentions any windows  
22 operating system; right?

23           A     That's a judgment call. OS/2 was a  
24 Microsoft operating system that got combined into  
25 windows.

1           Q     Hotelling never mentions any windows  
2     operating systems specifically; correct?

3           A     I think I just answered that.

4           Q     well, you said it is a judgment call. Is  
5     it your opinion that Hotelling does mention the  
6     windows operating system or mentions an operating  
7     system that got combined eventually into windows?

8           A     He mentions more than one operating system  
9     that eventually got combined into windows or were  
10    part of -- various windows editions at the time. He  
11    doesn't mention by name an operating system called  
12    windows. But, again, he says that it's open-ended.  
13    He says it can be a special purpose operating  
14    system. He is very clear in paragraph 65 that his  
15    teachings are applicable to a wide range of  
16    operating systems.

17          Q     Turn back to your declaration and take a  
18    look at page 88. Let me know when you're there.

19          A     I'm there.

20          Q     All right. The last sentence of paragraph  
21    142, you opine that Hotelling discloses advantages  
22    to touchscreens. Again, citing paragraphs 9 and 69  
23    of Hotelling; correct?

24          A     Yes.

25          Q     And Hotelling doesn't disclose advantages

1 of a touchscreen specifically in a laptop, easel, or  
2 a frame mode; correct?

3 A I think a person of ordinary skill in the  
4 art would understand that what he teaches is  
5 applicable to all three of those.

6 Q But Hotelling doesn't specifically mention  
7 a laptop mode, an easel mode, or a frame mode;  
8 correct?

9 MR. HEINTZ: Objection. Form.

10 THE WITNESS: I don't recall him  
11 specifically mentioning them. But I think that  
12 he -- again, he teaches about displays and  
13 touchscreens. A person of ordinary skill in the art  
14 could put it in the appropriate context.

15 BY MR. BALICH:

16 Q In paragraph 143, you state, POSAs would  
17 have been motivated to configure Lane's display into  
18 a touchscreen and all physical configurations; is  
19 that right?

20 A Yes.

21 Q But you don't cite anything as disclosing  
22 advantages of a touchscreen in all display modes  
23 specifically; right?

24 A No, that's not true. Because what I do  
25 cite is Hotelling teaches you that you can directly

1 interact with the GUI. And clearly a person of  
2 ordinary skill in the art would understand that in  
3 Lane's computer, one can physically interact with  
4 the GUI in each of the relevant display modes.

5 Q Also in paragraph 143, you opine that POSAs  
6 would have configured Lane's computer so a user  
7 could select My Documents, My Pictures, My Network  
8 Places icons and shortcuts as taught by Pogue,  
9 directly by touching them with a finger as taught by  
10 Hotelling; is that right?

11 A Yes.

12 Q And Pogue is a manual for windows XP Pro;  
13 right?

14 A Correct.

15 Q Pogue doesn't describe how the Mac  
16 operating system works; right?

17 A Pogue doesn't discuss the Mac specifically.  
18 To my recollection. But a person of ordinary skill  
19 would understand that selecting an icon or opening a  
20 folder is identical between a Mac and windows XP  
21 Pro.

22 Q Hotelling doesn't disclose compatibility of  
23 a computer designed for the Mac operating system  
24 with windows XP Pro operating systems; right?

25 A No. That wasn't relevant to anything that

1 I opined on.

2 Q In the last sentence of paragraph 143, you  
3 opine that POSAs would have had a reasonable  
4 expectation of success in combining Lane, Pogue, and  
5 Hotelling; is that right?

6 A Yes.

7 Q Now, you don't have a specific citation  
8 after that sentence, but I assume that you rely on  
9 the other citations that -- strike that.

10 You don't have a specific citation at the  
11 end of that sentence; is that right?

12 A Correct. I've explained all the reasons  
13 prior to that sentence.

14 Q Did Lane disclose a touchscreen  
15 specifically?

16 A He discloses pen input specifically. I  
17 think at the time, a person of ordinary skill would  
18 have understood that pen input includes both  
19 touchscreens and what were often called graphic  
20 digitizers at the time. There were two different  
21 kinds of pen input that were used. I think a person  
22 of ordinary skill would have understood that  
23 disclosure to have encompassed a touchscreen. They  
24 also would have found it obvious to use a  
25 touchscreen in place of pen input. The only

1 difference is whether or not you're pointing with a  
2 pen or you're pointing with your finger. It is not  
3 really a large leap. I throughout my career  
4 developed the products concurrently and often used  
5 the technology interchangeably.

6 Q Lane doesn't use the word touchscreen;  
7 right?

8 A I don't think he uses the word. But,  
9 again, I have explained how a person of ordinary  
10 skill would understand it. 2002, I built tablets  
11 that had touchscreens that were commonly used with  
12 pen input. Many of my competitors did as well.  
13 Some of those ran windows. Some of them ran Linux.  
14 It was common technology by 2008.

15 Q And Pogue doesn't use the word touchscreen  
16 either; correct?

17 A I don't recall him using the word. He just  
18 talks about the thousands of different input devices  
19 he uses. He uses an open-ended description of  
20 devices. As I mentioned, a person of ordinary skill  
21 in the art would know that a touchscreen was  
22 already an ordinary input device on a laptop by  
23 2008.

24 Q Any modifications required to Lane's  
25 computer for it to operate Pogue's windows XP Pro

1 operating system?

2 A No. No modifications as I would understand  
3 that from a patent analysis perspective. It would  
4 require configuration. The same type of ordinary  
5 configuration that any laptop or operating system  
6 would at the time.

7 Q In your declaration, you don't state that  
8 there's any modifications that would have been  
9 required to Pogue's Windows XP Pro in order for it  
10 to support the operation of touchscreens; right?

11 A Correct. The user or manufacturer would  
12 have provided a driver, just like they do for every  
13 other piece of hardware in the system. But that's  
14 simply a part of assembling the system. Touchscreen  
15 consists of both the hardware and the software, just  
16 like the mouse and the display and everything else  
17 in the computer.

18 Q And you don't have -- you don't cite any  
19 prior art evidence that there was a driver for a  
20 touchscreen to run on Windows XP Pro in your  
21 declaration; correct?

22 A No. Again, I don't recall that. That's  
23 kind of just a normal component of a computer, like  
24 an operating system or a power supply or an on  
25 switch. Pogue clearly explains that every hardware

1 device has a driver. And a person of ordinary skill  
2 in the art would have known that the hardware device  
3 is, the mouse, the keyboard have a driver. We  
4 discussed that. And they would have known the  
5 touchscreen has a driver as well.

6 Q In your declaration, you don't specifically  
7 map the Lane-Pogue-Hotelling combination to the  
8 challenged claims as part of Ground 2; is that  
9 right?

10 A I refer back to the previous mapping.  
11 Right. The mapping in Ground 1 covers everything.  
12 Hotelling is really just additional teachings, if  
13 they are necessary, about how a person would use a  
14 touchscreen or a pen input to interact with a --  
15 with the icons and content on the screen.

16 Q So you didn't map the Lane-Pogue-Hotelling  
17 combination because -- and correct me if I'm wrong.  
18 But the -- the configuration of Lane running Pogue  
19 wouldn't have changed in Ground 2 as opposed to  
20 Ground 1; is that right?

21 MR. HEINTZ: Objection. Form.

22 THE WITNESS: All the structures would have  
23 been the same. Lane and Pogue teach all the  
24 structures. They would have -- in the Hotelling  
25 combination, it would operate as I've described in

1 Ground 1. The only difference is that in Ground 1,  
2 some very ordinary things -- like the fact that you  
3 would touch a folder to open it with a  
4 touchscreen -- come from the knowledge of a person  
5 of ordinary skill in the art. It would just be  
6 common knowledge. Where, in Ground 2, it is  
7 explicit in Hotelling.

8 BY MR. BALICH:

9 Q Turn to page 89. We're already at 89 in  
10 your declaration.

11 A Yep.

12 Q So Ground 3, you opine that POSAs would  
13 have been motivated to combine Lane and Pogue with  
14 Segawa; correct?

15 A Correct.

16 Q You don't rely on Segawa as disclosing a  
17 navigation control in the display mode; is that  
18 right?

19 A Maybe I didn't understand that question.  
20 Can I have it again?

21 Q Sure. So one of the claimed elements of  
22 the '844 patent is a navigation control. Right?

23 A Correct.

24 Q In Ground 3, you're not relying on Segawa  
25 as disclosing a navigation control in the

1 combination; correct?

2 A Correct. It's -- Segawa discloses the use  
3 of a navigation control. There is already a  
4 navigation control disclosed in the combination of  
5 Lane and Pogue.

6 Q Okay. Turn to Ground 4, which is on page  
7 91 -- or begins at least on page 91 at least.

8 A Yes.

9 Q For Ground 4, you don't refer to the MIT as  
10 disclosing a navigation control in the combination;  
11 is that right?

12 A Correct. Lane and Pogue described the  
13 navigation control. MIT further describes some  
14 mechanisms involved in the rotation of the hinge.

15 Q And then in Ground 5, it begins on page 93.  
16 The same for Ground 5, that you're just relying on  
17 the combination of Lane and Pogue to describe -- to  
18 disclose the navigation control?

19 A It describes the existence of it. And then  
20 Hotelling further describes how one might interact  
21 with the touchscreen.

22 Q And so same question for Ground 6, which  
23 starts on page 94. For Ground 6, you just rely on  
24 the combination of Lane and Pogue as disclosing the  
25 existence of the navigation control; is that right?

1           A     Yes.

2                     MR. BALICH: I'm at a good place to take  
3 another break, if everyone wants to take a break.

4                     MR. HEINTZ: I would like a break.

5                     MR. BALICH: Let's go off the record.

6                     (A recess was taken.)

7 BY MR. BALICH:

8           Q     Dr. Wolfe, if you could turn to page 41 of  
9 your declaration. Let me know when you're there.

10          A     Okay.

11          Q     Page 41 begins the section where we've got  
12 your opinions on claim construction; right?

13          A     Right.

14          Q     In that section, you provide opinions for  
15 the term frame mode; right?

16          A     I don't know if I would call that an  
17 opinion. It is an explanation of what construction  
18 I was asked to adopt.

19          Q     From -- let me understand. So you were  
20 given a construction, and then you were asked to  
21 adopt that construction for frame mode?

22          A     For frame mode, yes.

23          Q     Okay. Was that the same case for the  
24 figure to display user on the main component of a  
25 first, slash, second content mode?

1           A     Let me take a look.

2                     Yes.

3           Q     And then for display mode, was it the same;  
4 you were asked to adopt a construction for display  
5 mode that was provided to you?

6           A     Yes.

7           Q     Same thing for navigation control; you were  
8 asked to adopt a construction that was provided to  
9 you?

10          A     Not quite. For navigation control, I was  
11 provided some information about prior constructions.  
12 And then I did express an opinion that I concurred  
13 with them.

14          Q     And then you provide an opinion on page 46  
15 a very lengthy term that has to do with hinges; is  
16 that right?

17          A     In a general sense. I explain that, in my  
18 opinion, there are two possible constructions. And  
19 that for purposes of the opinions I express in this  
20 declaration, that there is no need to distinction  
21 between them because my opinions cover both.

22          Q     Got it. You don't provide an opinion on  
23 the term disposed, at least partially about the  
24 longitudinal axis; is that right?

25          A     Correct.

1 Q If you could turn to page 69 of your  
2 declaration. Let me know when you're there.

3 A Yes.

4 Q So on page 69, there's a paragraph 112; is  
5 that correct?

6 A The beginning of it, yes.

7 Q And would you agree with me that Lane does  
8 not disclose the display of a first or second  
9 content mode as claimed in the '844 patent?

10 A I didn't evaluate whether it does or  
11 whether it doesn't. I simply relied on the  
12 combination for Pogue on that.

13 Q You only rely on Pogue for disclosing the  
14 content modes; is that right?

15 A Yes. As those terms have been used in  
16 these particular claims.

17 Q Yeah. And it is your opinion that Pogue's  
18 My Documents folders constitutes a first contact  
19 mode?

20 A Yes, as an example. Yes.

21 Q But you don't identify any other example of  
22 a first contact mode in your declaration; correct?

23 A Not specifically, no.

24 Q If you turn to page 70 of your declaration,  
25 you show Figure 21-7 from Pogue; is that right?

1           A     Correct.

2           Q     And you've annotated Figure 21-7 to show a  
3     red square surrounding the My Documents folder icon;  
4     correct?

5           A     Correct.

6           Q     And that particular My Documents folder  
7     icon, it is located in what Figure 21-7 labels as  
8     "Your office PC's desktop back home." Is that  
9     right?

10          A     That particular one is. There's another  
11     one up a little bit up -- up to the -- to the left  
12     and higher that would be the one on the local  
13     computer. Yes.

14          Q     And you didn't annotate the other My  
15     Documents folder icon that is shown in Figure 21-7;  
16     is that right?

17          A     I didn't annotate it, but I referred  
18     generally to the My Documents folder on the desktop.  
19     The one on the desktop would be the one in the upper  
20     corner.

21          Q     Okay. So the My Documents folder that you  
22     did not annotate, that is on your current PC's  
23     desktop; is that correct?

24          A     Yes.

25          Q     If you turn to page 71.

1           A     Okay.

2           Q     And look specifically at paragraph 114.  
3     You opine that Pogue discloses the second content  
4     mode; is that right?

5           A     Correct.

6           Q     And you opine that the My Pictures folder  
7     icon is the second content mode disclosed by Pogue;  
8     correct?

9           A     Correct.

10          Q     And if you turn to page 72, you show Figure  
11     21-7 again.

12          A     Correct.

13          Q     And this time, on page 72, you added a red  
14     square surrounding the My Pictures folder shortcut  
15     icon; correct?

16          A     Correct.

17          Q     And that My Pictures folder shortcut icon  
18     that you have annotated, that's on your current PC's  
19     desktop; correct?

20          A     Correct.

21          Q     And the My Documents icon, that's still  
22     shown on your current PC's desktop, up at the top  
23     left; correct?

24          A     It is.

25          Q     And the My Documents icon is also shown on

1 the your office PC's desktop?

2 A Another My Documents icon is shown on  
3 the -- your office PC desktop, yes.

4 Q What's the orientation of the My Pictures  
5 icon relative to the My Documents icon?

6 A If we're talking about the ones on the  
7 current PC's desktop, it's below it.

8 Q What -- what's the -- what's the  
9 orientation of the My Documents icon in relation to  
10 the My Pictures icon in terms of their -- their  
11 orientation with respect to, let's say, the bottom  
12 of the screen? So let's --

13 Let me strike that question. And let me ask  
14 a different question.

15 An icon could appear on a screen right way  
16 up; is that right?

17 MR. HEINTZ: Objection. Form.

18 THE WITNESS: I'm not sure what you mean by  
19 right way up. Certainly --

20 BY MR. BALICH:

21 Q So I mean, the claims in the '844 patent  
22 have to do with a reconfigurable computer; correct?  
23 Generally speaking.

24 A There are aspects of it that are  
25 reconfigurable in terms of the -- the rotation of

1 the display around a hinge.

2 Q Correct. So when a computer is in a laptop  
3 mode, for example, it needs to be able to display  
4 content on the screen that is appropriate for a user  
5 using the computer in the laptop mode; right?

6 A Ideally.

7 Q And when a user reconfigures a computer to  
8 easel mode, for example, if the computer didn't  
9 change the orientation of the content display, it  
10 would appear to be upside-down; right?

11 A That would typically be true.

12 Q Yeah. So the computer has to know the  
13 display mode in order to display content  
14 appropriately, you know, vis-a-vis right side up or  
15 upside-down; right?

16 A I don't know --

17 MR. HEINTZ: Objection. Form.

18 THE WITNESS: -- if I would use  
19 appropriately. But certainly if you would like to  
20 rotate the display to a preferred orientation for  
21 each display mode, then the computer software would  
22 somehow need to be aware of the display mode,  
23 whether it's automatically or manually.

24 BY MR. BALICH:

25 Q How would a person of ordinary skill

1 describe the orientation of the content displayed  
2 with respect to this -- this notion of right side  
3 up, upside-down? what words would they use to  
4 describe that particular orientation as opposed to,  
5 you know, above, below, that kind of thing?

6 MR. HEINTZ: Objection. Form.

7 THE WITNESS: I don't know if there is a  
8 standard way.

9 BY MR. BALICH:

10 Q How would you describe the type of  
11 orientation that is right side up, upside-down,  
12 versus up, down, left, right?

13 A Again, I don't know that there's a standard  
14 way. When the horizontal dimension is longer than  
15 the vertical dimension, we will typically call that  
16 a landscape mode. I have seen systems that would  
17 describe it as the 180-degree rotation from that as  
18 180-degree rotation. I have seen some that would  
19 describe it as reverse landscape. I don't know if  
20 there is a consistent term.

21 Q Let me try this question then. What is  
22 the -- the rotation of the My Pictures icon in  
23 Figure 21-7 in relation to the rotation of the  
24 My Documents icon in that same figure?

25 A They both have the same rotation.

1 Presumably in this particular illustration, where  
2 you -- it would be a laptop mode and it would be  
3 rotated zero degrees from the laptop mode, the same  
4 thing that is illustrated in Figure 12 in the '844  
5 patent.

6 Q Okay. So you also opine that Pogue  
7 discloses another second content mode in the form of  
8 the My Network Places; is that correct?

9 A Yes.

10 Q And is the My Network Places folder icon  
11 depicted in Figure 21-7?

12 A Let me see if I can look at the original.  
13 This copy is not great. It's illustrated on the  
14 screen. It is part of the overall computer display.

15 Q So it is illustrated in the your office  
16 PC's back home portion of the figure?

17 A Yes.

18 Q Okay. And what is the rotational  
19 orientation of the My Network Places icon in  
20 relation to the rotational orientation of the My  
21 Documents icon?

22 A In this illustration, it's in the normal  
23 laptop rotation. It is the exact same thing as is  
24 illustrated in Figure 12 in the '844 patent, where  
25 all of the content mode selectors are the same

1 rotation.

2 Q Does Pogue ever disclose two icons that  
3 have orientations that are 180 degrees opposite each  
4 other?

5 A Not that I'm aware of. When you combine it  
6 with Lane, the orientations would change over time,  
7 as you entered the various display modes. But I  
8 believe they would all change at the same time.  
9 They wouldn't change relative to one another.  
10 Again, Figure 12 of the '844 patent, they don't  
11 change relative to one another either.

12 MR. BALICH: Those are all of the questions  
13 that I've got.

14 MR. HEINTZ: Let's take just a two-minute  
15 break. I want to give some thought to something.  
16 But I suspect we will be done pretty quickly.

17 MR. BALICH: Okay.

18 (A recess was taken.)

19 MR. HEINTZ: Okay. No further questions  
20 for me. So we're done for the day.

21 Thank you, Dr. Wolfe, for your time.

22 MR. BALICH: Thank you very much.

23 (The proceedings concluded at 10:56 a.m.)

24 -000-

25

I have read the foregoing deposition  
transcript and by signing hereafter, subject to any  
changes I have made, approve same.

Dated: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Deponent)

DEPOSITION OFFICER'S CERTIFICATE

STATE OF CALIFORNIA        )  
                                      )    SS.  
COUNTY OF RIVERSIDE        )

I, BROOKE SILVAS, a certified shorthand  
reporter for the state of California, do hereby  
certify:

That prior to being examined, the witness  
named in the foregoing deposition solemnly stated to  
testify to the truth, the whole truth, and nothing but  
the truth;

That the said deposition was taken down by me  
remotely in stenotype at the time and place therein  
stated and thereafter reduced to typewriting under my  
direction, and that the deposition transcript is a  
true and correct record of the proceedings here held.

I further certify that I am not of counsel or  
attorney for any of the parties hereto or in any way  
interested in the event of this cause and that I am  
not related to any of the parties thereto.

Dated: August 3, 2024

\_\_\_\_\_  
BROOKE SILVAS  
CSR No. 10988

DEPOSITION OFFICER'S CERTIFICATE

STATE OF CALIFORNIA        )  
                                      ) ss.  
COUNTY OF RIVERSIDE        )

I, Brooke Silvas, hereby certify:

I am the deposition officer that  
stenographically recorded the testimony in the  
foregoing deposition.

written notice pursuant to Code of Civil  
Procedure, Section 2025.520(a), having been sent, the  
deponent took the following action within the allotted  
period with respect to the transcript of the  
deposition:

(    ) In person, at the office of the  
deposition officer, made the changes set forth on the  
original of the transcript. (The parties attending  
the deposition have been notified of said changes.)

(    ) Approved the transcript by signing it.

(    ) Refused to approve the transcript by  
not signing it.

(    ) By means of a signed letter, made the  
changes and approved or refused to approve the  
transcript as set forth therein. (Said letter has  
been attached to the original transcript and copies

thereof mailed to all parties attending the  
deposition.)

( ) Failed to approve the transcript within  
the allotted time period.

Dated: August 3, 2024

Brooke Silvas

---

BROOKE SILVAS  
CSR NO. 10988

|                                                                                            |                                                                          |                                                                            |                                           |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------|
| <b>Exhibits</b>                                                                            | <b>1015</b><br>56:16,21                                                  | <b>180-degree</b><br>93:17,18                                              | <b>3</b>                                  |
| <b>Exhibit 1007</b><br>28:22 29:7,8,12,18,<br>21 30:1,10                                   | <b>102</b><br>48:6,17 49:23,24<br>53:22,23 54:16,20,<br>22,25 55:9,12,14 | <b>19</b><br>33:18,21 35:8                                                 | <b>3</b><br>29:17,22,25 60:15<br>84:12,24 |
| <b>Exhibit 1001</b><br>7:5,6,13,18                                                         | <b>1020</b><br>69:6,12,14                                                | <b>1997</b><br>56:25 57:4                                                  | <b>3.0</b><br>13:6,12                     |
| <b>Exhibit 1002</b><br>7:20,25 8:3,9,25                                                    | <b>103</b><br>50:8,10 54:12,21<br>55:14,19 60:11                         | <b>19A</b><br>70:1                                                         | <b>3.1</b><br>13:6,12                     |
| <b>Exhibit 1007 b</b><br>28:22 29:7,8,12,18,<br>21 30:1,10                                 | 62:25 63:11,17 64:2,<br>6                                                | <b>1st</b><br>17:9                                                         | <b>30</b><br>19:12                        |
| <b>Exhibit 1015</b><br>56:16,21                                                            | <b>104</b><br>9:14 11:12                                                 | <b>2</b>                                                                   | <b>300</b><br>29:9 30:1                   |
| <b>Exhibit 1018</b>                                                                        | <b>10:56</b><br>95:23                                                    | 5:1 7:25 8:8,12<br>22:22 48:11 67:11,<br>18 68:9 83:8,19 84:6              | <b>301</b><br>29:13                       |
| <b>Exhibit 1020</b><br>69:6,11,12,14                                                       | <b>10th</b><br>17:11                                                     | <b>2001</b><br>61:9,13                                                     | <b>32</b><br>74:7                         |
| <b>\$</b>                                                                                  | <b>112</b><br>88:4                                                       | <b>2002</b><br>13:13 81:10                                                 | <b>33</b><br>74:7                         |
| <b>\$650</b><br>14:24                                                                      | <b>114</b><br>90:2                                                       | <b>2005</b><br>5:14                                                        | <b>35</b><br>54:1                         |
| <b>-</b>                                                                                   | <b>12</b><br>94:4,24 95:10                                               | <b>2008</b><br>17:9,11 21:20 22:12<br>39:7 61:23 62:8,18<br>65:16 81:14,23 | <b>3M</b><br>39:25                        |
| <b>-000-</b><br>95:24                                                                      | <b>12,000</b><br>39:10,16 40:20 41:6                                     | <b>2018</b><br>9:18 11:13                                                  | <b>4</b><br>29:17,22 42:3 60:16<br>85:6,9 |
| <b>1</b>                                                                                   | <b>140</b><br>36:15,16,19 42:11                                          | <b>2024</b><br>5:1 9:4 11:14                                               | <b>4.0</b><br>13:13                       |
| <b>1</b><br>7:4 20:8,9,16,21<br>22:12 29:9 45:25<br>47:15 59:6 60:15<br>74:3 83:11,20 84:1 | <b>141</b><br>67:15                                                      | <b>21</b><br>35:25 36:6 42:12                                              | <b>40</b><br>57:17                        |
| <b>10</b><br>55:5                                                                          | <b>142</b><br>5:15 48:18,20 50:17<br>51:5 67:5 77:21                     | <b>21-7</b><br>88:25 89:2,7,15<br>90:11 93:23 94:11                        | <b>40-year-old</b><br>65:3                |
| <b>10,000</b><br>32:2                                                                      | <b>143</b><br>48:11,17 51:9,11<br>78:16 79:5 80:2                        | <b>21A</b><br>70:4                                                         | <b>41</b><br>86:8,11                      |
| <b>1001</b><br>7:5,6,13,18                                                                 | <b>144</b><br>67:16                                                      | <b>23</b><br>30:14 35:13 37:7<br>39:9 70:11                                | <b>46</b><br>87:14                        |
| <b>1002</b><br>7:20,25 8:3,9,25                                                            | <b>145</b><br>75:8,11,21                                                 | <b>23A</b><br>70:7 74:8,10                                                 | <b>49</b><br>19:13                        |
| <b>1007</b><br>28:22 29:8,12,18,21<br>30:1,10                                              | <b>15</b><br>9:18 11:13 28:5<br>57:21                                    | <b>23D</b><br>74:8,10                                                      | <b>5</b><br>56:20 85:15,16                |
| <b>1008</b><br>60:18,23 61:1,5                                                             | <b>16</b><br>15:25 60:22                                                 | <b>25</b><br>60:15                                                         | <b>51</b><br>53:25                        |
| <b>101</b><br>20:13,16 45:5 47:16<br>48:16,21 52:3,6<br>53:14 63:13                        | <b>17A</b><br>69:22,23                                                   | <b>25A</b><br>70:13,14                                                     | <b>53</b><br>60:15                        |
|                                                                                            | <b>18</b><br>60:16                                                       | <b>25th</b><br>9:4 11:14                                                   | <b>54</b><br>71:23 72:4,5                 |
|                                                                                            | <b>180</b><br>95:3                                                       | <b>27A</b><br>70:19                                                        |                                           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>56</b><br/>74:13</p> <p><b>57</b><br/>20:2 52:4 67:4<br/>72:18,21</p> <p><b>58</b><br/>20:16</p> <hr/> <p><b>6</b></p> <hr/> <p><b>6</b><br/>22:22 60:24,25<br/>85:22,23</p> <p><b>632</b><br/>52:7</p> <p><b>64</b><br/>72:3</p> <p><b>65</b><br/>74:14,17,24 77:14</p> <p><b>66</b><br/>60:16 76:11</p> <p><b>67</b><br/>75:7</p> <p><b>69</b><br/>68:24 72:21,23 73:2,<br/>9,17 77:22 88:1,4</p> <p><b>6A</b><br/>69:19,20</p> <hr/> <p><b>7</b></p> <hr/> <p><b>7</b><br/>69:11</p> <p><b>70</b><br/>88:24</p> <p><b>706</b><br/>29:13</p> <p><b>71</b><br/>89:25</p> <p><b>72</b><br/>90:10,13</p> <p><b>7:56</b><br/>5:2</p> <hr/> <p><b>8</b></p> <hr/> <p><b>8</b><br/>60:23</p> <p><b>8,624,844</b><br/>7:14</p> <p><b>844</b><br/>7:16 16:18,25 17:15,<br/>23 18:25 34:19,24</p> | <p>84:22 88:9 91:21<br/>94:4,24 95:10</p> <p><b>87</b><br/>67:3,5,8,11</p> <p><b>88</b><br/>77:18</p> <p><b>89</b><br/>67:8,12 84:9</p> <hr/> <p><b>9</b></p> <hr/> <p><b>9</b><br/>68:24 71:24 72:1,7,<br/>11,15 77:22</p> <p><b>90</b><br/>24:20</p> <p><b>91</b><br/>85:7</p> <p><b>93</b><br/>85:15</p> <p><b>94</b><br/>85:23</p> <p><b>95</b><br/>13:5</p> <p><b>95050</b><br/>5:15</p> <p><b>96</b><br/>8:21,24</p> <p><b>97</b><br/>13:4</p> <hr/> <p><b>A</b></p> <hr/> <p><b>a.m.</b><br/>5:2 95:23</p> <p><b>ability</b><br/>34:8</p> <p><b>access</b><br/>13:17,19,20</p> <p><b>account</b><br/>24:7</p> <p><b>accurate</b><br/>11:12 31:5 66:1</p> <p><b>accurately</b><br/>22:8</p> <p><b>acronym</b><br/>17:13,17</p> <p><b>add</b><br/>14:3 44:4,5 45:1,2<br/>67:20</p> <p><b>added</b><br/>42:10 90:13</p> | <p><b>addition</b><br/>66:13</p> <p><b>additional</b><br/>22:13,15,18 29:3<br/>68:5 83:12</p> <p><b>address</b><br/>5:13</p> <p><b>adjacent</b><br/>38:15</p> <p><b>administered</b><br/>5:5</p> <p><b>adopt</b><br/>86:18,21 87:4,8</p> <p><b>advanced</b><br/>12:18 31:21</p> <p><b>advantage</b><br/>73:2,9</p> <p><b>advantages</b><br/>73:8 77:21,25 78:22</p> <p><b>Agilelaw</b><br/>6:19 29:2 56:20<br/>60:22</p> <p><b>agree</b><br/>8:17 18:23 60:3 88:7</p> <p><b>ahead</b><br/>18:18 40:14</p> <p><b>Alternatively</b><br/>54:4</p> <p><b>analysis</b><br/>17:4 82:3</p> <p><b>Andrew</b><br/>5:4,14</p> <p><b>annotate</b><br/>89:14,17,22</p> <p><b>annotated</b><br/>89:2 90:18</p> <p><b>answering</b><br/>6:12</p> <p><b>anticipated</b><br/>18:12</p> <p><b>anticipates</b><br/>18:24</p> <p><b>anticipation</b><br/>19:2</p> <p><b>appears</b><br/>7:15 8:6 61:7 69:15</p> <p><b>Apple</b><br/>74:4,11 76:13</p> <p><b>applicable</b><br/>43:2 62:23 63:23<br/>77:15 78:5</p> | <p><b>application</b><br/>74:11</p> <p><b>applications</b><br/>24:6 71:18 75:12,15</p> <p><b>applied</b><br/>8:17 17:2,4 30:6,7<br/>50:14</p> <p><b>apply</b><br/>59:21</p> <p><b>appropriately</b><br/>92:14,19</p> <p><b>Approximately</b><br/>9:25 10:17</p> <p><b>April</b><br/>9:18 11:13 17:9<br/>22:12</p> <p><b>architecture</b><br/>48:2</p> <p><b>art</b><br/>15:12 16:20,24<br/>17:14 18:2,8,14,21,<br/>23 19:14 21:18 25:4,<br/>15 26:5,8 42:7 43:2,<br/>14,17 44:3,21,25<br/>46:14 47:9,23 49:13,<br/>16,19 50:11,15 51:4,<br/>15,16,19 55:20 56:9<br/>57:10,15 58:16 59:1,<br/>9,15,20 60:5,6,10<br/>61:22 62:8,16 64:20<br/>65:1,3,14,23 66:2,3,<br/>6,8,11,14,16,18,23<br/>67:24 68:4,17,20,21<br/>71:16 78:4,13 79:2<br/>81:21 82:19 83:2<br/>84:5</p> <p><b>aspect</b><br/>27:11 28:21</p> <p><b>aspects</b><br/>47:25 57:24 58:15,<br/>20 62:3 68:15 91:24</p> <p><b>assembling</b><br/>82:14</p> <p><b>assessment</b><br/>16:17</p> <p><b>assigned</b><br/>74:4</p> <p><b>assume</b><br/>6:3 16:6 26:4 80:8</p> <p><b>assumed</b><br/>25:6</p> <p><b>Assuming</b></p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>70:21<br/><b>ASUS</b><br/>11:5<br/><b>attempt</b><br/>51:1<br/><b>attended</b><br/>9:22<br/><b>AUGUST</b><br/>5:1<br/><b>automatically</b><br/>32:19 92:23<br/><b>average</b><br/>32:6<br/><b>avoids</b><br/>65:22<br/><b>aware</b><br/>22:4 92:22 95:5<br/><b>axis</b><br/>87:24</p> <hr/> <p><b>B</b></p> <hr/> <p><b>back</b><br/>10:14 19:16 35:13<br/>37:7 48:21 52:2<br/>62:25 63:15 67:13<br/>74:3 77:17 83:10<br/>89:8 94:16<br/><b>Balich</b><br/>5:10,16 7:9,23 18:22<br/>24:13 26:17 27:3,21<br/>28:9 29:1 38:9,17<br/>40:15,25 41:10,23<br/>42:17 46:20 49:22<br/>51:20,23 52:1 56:19<br/>58:10 60:9,21 64:1<br/>65:5 67:2 68:8 69:9<br/>75:19 78:15 84:8<br/>86:2,5,7 91:20 92:24<br/>93:9 95:12,17,22<br/><b>ballpark</b><br/>57:17<br/><b>base</b><br/>25:6 27:18<br/><b>based</b><br/>44:22<br/><b>baseline</b><br/>26:4 27:14 28:7<br/><b>basic</b><br/>25:15 31:21<br/><b>battery</b><br/>27:17</p> | <p><b>beginning</b><br/>20:12 67:5 88:6<br/><b>begins</b><br/>16:1 85:7,15 86:11<br/><b>behalf</b><br/>10:5,6,9,23 11:3,5,9<br/><b>beneficial</b><br/>14:8,13<br/><b>benefit</b><br/>65:18<br/><b>Bill</b><br/>30:22<br/><b>BIOS</b><br/>12:20,21<br/><b>bit</b><br/>48:18 89:11<br/><b>blending</b><br/>54:14<br/><b>Board</b><br/>68:3<br/><b>book</b><br/>30:3<br/><b>bottom</b><br/>8:11 20:7 30:6 91:11<br/><b>bought</b><br/>32:24<br/><b>Boulevard</b><br/>5:15<br/><b>break</b><br/>6:6,8 51:21,22 86:3,<br/>4 95:15<br/><b>brightness</b><br/>38:6<br/><b>brings</b><br/>34:3<br/><b>build</b><br/>14:4<br/><b>built</b><br/>32:18 37:22 40:7<br/>81:10<br/><b>built-in</b><br/>39:17<br/><b>bulk</b><br/>71:4<br/><b>bundle</b><br/>22:13<br/><b>burden</b><br/>19:6<br/><b>business</b><br/>5:12<br/><b>businesses</b><br/>55:24</p> | <p><b>button</b><br/>33:22,25 34:3 38:10<br/><b>buy</b><br/>76:4</p> <hr/> <p><b>C</b></p> <hr/> <p><b>California</b><br/>5:15<br/><b>call</b><br/>76:23 77:4 86:16<br/>93:15<br/><b>called</b><br/>11:18 12:2,19 13:24<br/>28:12 31:4 37:18<br/>40:1 77:11 80:19<br/><b>camera</b><br/>33:4<br/><b>capabilities</b><br/>12:18 13:9 49:5,12,<br/>21 50:4 61:16<br/><b>capable</b><br/>32:6 59:17<br/><b>career</b><br/>81:3<br/><b>cares</b><br/>31:7<br/><b>case</b><br/>33:16 86:23<br/><b>CD-ROM</b><br/>33:4<br/><b>CGA</b><br/>76:11<br/><b>challenged</b><br/>83:8<br/><b>change</b><br/>34:8 92:9 95:6,8,9,<br/>11<br/><b>changed</b><br/>83:19<br/><b>chauffeurs</b><br/>30:22<br/><b>check</b><br/>10:2<br/><b>chips</b><br/>12:15,16,17 14:5<br/><b>choice</b><br/>64:17,22 76:19<br/><b>chosen</b><br/>68:21<br/><b>circumstances</b><br/>34:6</p> | <p><b>citation</b><br/>80:7,10<br/><b>citations</b><br/>50:6 80:9<br/><b>cite</b><br/>21:9 24:25 25:5,9,<br/>13,25 26:2,18 27:4<br/>45:12,13,16,20,23<br/>47:5,7 48:24 49:3,<br/>10,15,20,24 50:3,11,<br/>13,22,25 51:4,11,17<br/>52:6,8 53:1 55:20,23<br/>56:9 57:11 60:11,14<br/>61:5 64:20 66:2,3,6,<br/>16 68:24 72:24<br/>73:22 78:21,25<br/>82:18<br/><b>cited</b><br/>18:24 64:24 66:8,23<br/>72:8<br/><b>cites</b><br/>54:2<br/><b>citing</b><br/>65:22 77:22<br/><b>claim</b><br/>12:6 18:11,12 19:4,<br/>7,11,22 26:7 34:21<br/>59:6 63:16 65:8<br/>86:12<br/><b>claimed</b><br/>84:21 88:9<br/><b>claims</b><br/>16:18 18:25 20:11,<br/>12 34:19 59:6,11<br/>83:8 88:16 91:21<br/><b>Clara</b><br/>5:15<br/><b>clarify</b><br/>5:25 6:2<br/><b>class</b><br/>31:24<br/><b>clear</b><br/>20:6 42:1 53:17<br/>68:13,16 70:11,15<br/>76:9 77:14<br/><b>clicking</b><br/>33:25 34:3<br/><b>code</b><br/>13:18,20,21,23 14:8,<br/>13,16 24:11<br/><b>column</b><br/>60:15,16</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>combination</b><br/>19:21,24 45:7 48:8,<br/>9,13 55:7,11,13,15<br/>66:12,18,23 67:20,<br/>25 68:10 69:1 83:7,<br/>17,25 85:1,4,10,17,<br/>24 88:12</p> <p><b>combine</b><br/>18:9 19:15,20 44:17,<br/>25 46:3 49:20 52:18<br/>53:11 59:24 68:5<br/>84:13 95:5</p> <p><b>combined</b><br/>76:24 77:7,9</p> <p><b>combines</b><br/>20:9</p> <p><b>combining</b><br/>26:9 53:17 60:6 80:4</p> <p><b>commands</b><br/>34:4</p> <p><b>comments</b><br/>42:10</p> <p><b>commercial</b><br/>13:14</p> <p><b>commercially</b><br/>40:7</p> <p><b>common</b><br/>24:21 25:6 26:10<br/>28:2 56:6,10 65:15<br/>81:14 84:6</p> <p><b>commonly</b><br/>37:16 43:18 81:11</p> <p><b>company</b><br/>11:18</p> <p><b>company's</b><br/>11:20</p> <p><b>compared</b><br/>14:19</p> <p><b>compatibility</b><br/>25:21 26:18 27:5<br/>57:7 75:24 79:22</p> <p><b>compatible</b><br/>12:7,25 13:6 26:11,<br/>24 27:11,15,16,17,<br/>23 28:11,15 40:6<br/>43:11,15,20 44:19<br/>46:13 65:15</p> <p><b>compensated</b><br/>14:23</p> <p><b>competitor</b><br/>40:1</p> <p><b>competitors</b></p> | <p>81:12</p> <p><b>completely</b><br/>6:16 21:7 32:11</p> <p><b>complicated</b><br/>14:19</p> <p><b>component</b><br/>30:24 31:3 39:20<br/>82:23 86:24</p> <p><b>components</b><br/>39:11,16 40:20 41:6,<br/>8 47:3 48:5 65:10</p> <p><b>computer</b><br/>12:22 20:17,23<br/>22:24 23:10 25:4,5,<br/>17 26:24 27:12<br/>28:21 30:20 32:16,<br/>22,23 33:13 34:13<br/>35:6,22 37:4,20 40:9<br/>41:12 42:3 46:22<br/>47:2,3 48:15 49:1,6<br/>50:2,7 52:19 53:18,<br/>19 54:22 55:1,4,5<br/>57:23,25 58:2,7,18,<br/>24 59:2 61:25 63:3,<br/>14,15,19,23 64:4,11<br/>68:10 69:17,20,24<br/>70:2,5,8,14,16,20,21<br/>71:2,13,15,20 73:10,<br/>18 74:4,11 79:3,6,23<br/>81:25 82:17,23<br/>89:13 91:22 92:2,5,<br/>7,8,12,21 94:14</p> <p><b>computers</b><br/>12:15 28:15,16 40:8<br/>41:17 47:25 48:3<br/>52:13 62:24 66:10</p> <p><b>computing</b><br/>54:1,10 56:1 63:2<br/>64:12,21 68:7</p> <p><b>concepts</b><br/>42:16</p> <p><b>concluded</b><br/>95:23</p> <p><b>conclusion</b><br/>58:6</p> <p><b>concurrent</b><br/>87:12</p> <p><b>concurrently</b><br/>81:4</p> <p><b>configuration</b><br/>23:15 32:20 34:10<br/>82:4,5 83:18</p> | <p><b>configurations</b><br/>56:2 68:1 78:18</p> <p><b>configure</b><br/>78:17</p> <p><b>configured</b><br/>32:23 33:12 34:12<br/>35:4,9,21 37:3 38:2<br/>39:4 79:6</p> <p><b>connection</b><br/>8:4</p> <p><b>consistent</b><br/>21:7 59:21 93:20</p> <p><b>consists</b><br/>82:15</p> <p><b>constitutes</b><br/>88:18</p> <p><b>construction</b><br/>86:12,17,20,21 87:4,<br/>8</p> <p><b>constructions</b><br/>87:11,18</p> <p><b>contact</b><br/>88:18,22</p> <p><b>content</b><br/>34:13,16,23 35:5,10<br/>37:4,19,21 38:3,19,<br/>21,24 39:5 83:15<br/>86:25 88:9,14 90:3,7<br/>92:4,9,13 93:1 94:7,<br/>25</p> <p><b>contents</b><br/>34:25 35:1</p> <p><b>context</b><br/>34:21,24 52:10<br/>62:20 78:14</p> <p><b>continue</b><br/>44:23 47:21</p> <p><b>control</b><br/>36:11,20,24 38:6<br/>84:17,22,25 85:3,4,<br/>10,13,18,25 87:7,10</p> <p><b>controlling</b><br/>30:23 31:3</p> <p><b>convey</b><br/>52:20</p> <p><b>coordinating</b><br/>12:1</p> <p><b>copies</b><br/>6:23,25 36:7</p> <p><b>copy</b><br/>6:21 17:7 34:4<br/>36:11,20 42:22</p> | <p>94:13</p> <p><b>corner</b><br/>20:7 89:20</p> <p><b>correct</b><br/>5:19 9:8,12,19 10:20<br/>11:18 14:6 20:9,10<br/>21:2,13 22:17,25<br/>25:2 29:22 31:10,15<br/>34:2 35:12,19 36:4,<br/>5,9,17,22 37:1,14<br/>39:8 43:23 44:1<br/>45:17,24 48:17<br/>50:18 51:10,17 52:7,<br/>16 55:1,10,21,22<br/>56:4 57:1,5,12<br/>59:12,13,19,25<br/>60:12,13,17 61:3,4,<br/>9,11,13,14,19 62:23<br/>64:19 65:7,12 66:20,<br/>22 67:12,13,15,17<br/>69:12,14,24 70:2,5,<br/>20 71:20,24 72:10,<br/>21 73:23 74:5,8,17,<br/>18,24 75:16,21,25<br/>76:16 77:2,23 78:2,8<br/>79:14 80:12 81:16<br/>82:11,21 83:17<br/>84:14,15,23 85:1,2,<br/>12 87:25 88:5,22<br/>89:1,4,5,23 90:5,8,9,<br/>12,15,16,19,20,23<br/>91:22 92:2 94:8</p> <p><b>correctly</b><br/>20:19 30:25</p> <p><b>counsel</b><br/>15:14,19,23 16:6</p> <p><b>couple</b><br/>13:11</p> <p><b>cover</b><br/>69:18 87:21</p> <p><b>covers</b><br/>83:11</p> <p><b>CPU</b><br/>46:12</p> <p><b>created</b><br/>14:16,20</p> <p><b>creates</b><br/>24:7</p> <p><b>creativity</b><br/>18:10</p> <p><b>Cruz</b><br/>5:14</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>curious</b><br/>41:25</p> <p><b>current</b><br/>89:22 90:18,22 91:7</p> <p><b>customizes</b><br/>24:4</p> <p><b>cut</b><br/>34:4</p> <hr/> <p style="text-align: center;"><b>D</b></p> <hr/> <p><b>date</b><br/>9:20,23 16:25 17:2,<br/>3,9,11,14,23</p> <p><b>day</b><br/>28:15 95:20</p> <p><b>DDKS</b><br/>13:24</p> <p><b>De</b><br/>5:14</p> <p><b>deal</b><br/>46:11</p> <p><b>decisions</b><br/>15:16</p> <p><b>declaration</b><br/>6:22 8:4,16 9:2,7,12,<br/>15 11:12 15:3,15,25<br/>17:12 18:24 20:3<br/>21:14,24 23:5,22<br/>27:7 30:5 45:23 46:7<br/>52:3 60:11 61:6 63:1<br/>72:8,25 73:23,25<br/>77:17 82:7,21 83:6<br/>84:10 86:9 87:20<br/>88:2,22,24</p> <p><b>declarations</b><br/>10:10</p> <p><b>declared</b><br/>9:6</p> <p><b>default</b><br/>34:10</p> <p><b>definition</b><br/>46:6</p> <p><b>degrees</b><br/>94:3 95:3</p> <p><b>Dell</b><br/>10:23 11:3 32:23</p> <p><b>demonstrate</b><br/>27:10</p> <p><b>demonstrates</b><br/>66:1</p> <p><b>depends</b><br/>24:1 34:15</p> | <p><b>depict</b><br/>74:10</p> <p><b>depicted</b><br/>94:11</p> <p><b>deposed</b><br/>5:18</p> <p><b>deposition</b><br/>5:1 7:8,22 9:18 15:6,<br/>9 17:21 28:24 56:18<br/>60:20 69:8</p> <p><b>depositions</b><br/>9:21 10:1,10</p> <p><b>describe</b><br/>22:8 28:20 47:23<br/>49:6 53:23 54:22,25<br/>55:3 63:1,18,22<br/>76:7,18 79:15 85:17<br/>93:1,4,10,17,19</p> <p><b>describes</b><br/>22:7 33:24 40:19<br/>41:5 85:13,19,20</p> <p><b>describing</b><br/>38:10 55:6,11,12,15</p> <p><b>description</b><br/>21:4 22:19 47:22<br/>68:14 71:8 81:19</p> <p><b>design</b><br/>48:1,2 64:17,22</p> <p><b>designed</b><br/>79:23</p> <p><b>desktop</b><br/>89:8,18,19,23 90:19,<br/>22 91:1,3,7</p> <p><b>desktops</b><br/>27:1</p> <p><b>detail</b><br/>46:12 75:3</p> <p><b>detailed</b><br/>71:8</p> <p><b>details</b><br/>76:7</p> <p><b>determination</b><br/>19:2</p> <p><b>determine</b><br/>41:7 65:18</p> <p><b>determining</b><br/>16:22</p> <p><b>developed</b><br/>81:4</p> <p><b>developing</b><br/>12:11</p> | <p><b>Development</b><br/>13:25</p> <p><b>device</b><br/>32:1 37:10 40:4<br/>46:8,23 51:2 62:5,6<br/>68:7 70:12 71:7,11<br/>75:13 76:6 81:22<br/>83:1,2</p> <p><b>devices</b><br/>26:14 27:1 31:25<br/>37:22 40:4 41:17,18,<br/>20 42:9 50:21 66:7,9<br/>81:18,20</p> <p><b>difference</b><br/>72:13 81:1 84:1</p> <p><b>differences</b><br/>72:11</p> <p><b>difficult</b><br/>14:15</p> <p><b>digital</b><br/>33:4</p> <p><b>digitizers</b><br/>80:20</p> <p><b>dimension</b><br/>93:14,15</p> <p><b>directly</b><br/>78:25 79:9</p> <p><b>disclose</b><br/>22:14 39:13 40:16<br/>41:2,11 42:2,14,22<br/>43:10,25 64:25<br/>77:25 79:22 80:14<br/>85:18 88:8 95:2</p> <p><b>disclosed</b><br/>23:1 46:9 53:5 62:13<br/>85:4 90:7</p> <p><b>discloses</b><br/>33:11,17 34:11 35:4,<br/>9,20 36:6,10,19,23<br/>37:2 39:9 42:7,15<br/>49:7 59:16 75:11<br/>77:21 80:16 85:2<br/>90:3 94:7</p> <p><b>disclosing</b><br/>21:10,12 24:25<br/>53:25 57:11 78:21<br/>84:16,25 85:10,24<br/>88:13</p> <p><b>disclosure</b><br/>21:8 24:16 80:23</p> <p><b>disclosures</b><br/>55:6</p> | <p><b>discuss</b><br/>48:6 49:3,5 50:3<br/>79:17</p> <p><b>discussed</b><br/>15:12 63:12 83:4</p> <p><b>discusses</b><br/>71:9 73:12</p> <p><b>discussion</b><br/>31:7 53:19</p> <p><b>display</b><br/>27:15 38:15,18,23<br/>46:13 54:1 70:11,12<br/>71:5,7,15 78:17,22<br/>79:4 82:16 84:17<br/>86:24 87:3,4 88:8<br/>92:1,3,9,13,20,21,22<br/>94:14 95:7</p> <p><b>displayed</b><br/>34:24 37:4 38:20,25<br/>39:5 93:1</p> <p><b>displays</b><br/>26:16 37:19,21 38:3,<br/>19,21 73:12,13,16,<br/>18 76:12 78:12</p> <p><b>disposed</b><br/>87:23</p> <p><b>distinction</b><br/>87:20</p> <p><b>distinguish</b><br/>73:4,17</p> <p><b>document</b><br/>7:4,24 29:11,25 35:1<br/>36:7 56:20 60:22,23,<br/>24,25 69:11</p> <p><b>documents</b><br/>15:21 17:6 29:3,17,<br/>22 79:7 88:18 89:3,<br/>6,15,18,21 90:21,25<br/>91:2,5,9 93:24 94:21</p> <p><b>dominant</b><br/>75:4</p> <p><b>DOS</b><br/>74:20</p> <p><b>drags</b><br/>24:3</p> <p><b>drive</b><br/>33:4 45:2</p> <p><b>driver</b><br/>12:21 13:25 14:3<br/>31:4,10,15,21,23,25<br/>32:7,8,13,14,15,18<br/>35:17 37:11 39:13,</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>19,23 40:16,23 41:2<br/>43:21,23,25 44:5<br/>82:12,19 83:1,3,5</p> <p><b>drivers</b><br/>12:5,11,12,19 14:1,<br/>5,16,18,20,21 23:16,<br/>17 24:6 30:21 31:20<br/>32:2,4,5 39:10,17<br/>40:2,8,20 41:5 42:9<br/>46:19</p> <p><b>duly</b><br/>5:5</p> <p><b>DVD</b><br/>14:11</p> <hr/> <p><b>E</b></p> <hr/> <p><b>earlier</b><br/>57:5 58:9 61:14</p> <p><b>easel</b><br/>54:10 71:13 78:1,7<br/>92:8</p> <p><b>edition</b><br/>21:3,5,16,19,24<br/>22:3,5,9,12,15 23:3,<br/>4</p> <p><b>editions</b><br/>13:10,16 20:24<br/>77:10</p> <p><b>EGA</b><br/>76:11</p> <p><b>electronically</b><br/>7:6,20 28:22 56:16<br/>60:18 69:6</p> <p><b>element</b><br/>18:12 19:22 63:14,<br/>16</p> <p><b>elements</b><br/>74:1 84:21</p> <p><b>embodiment</b><br/>55:4 76:12</p> <p><b>embodiments</b><br/>53:21</p> <p><b>enable</b><br/>66:19</p> <p><b>enabled</b><br/>46:22 62:14 66:4</p> <p><b>enabling</b><br/>64:13,16,21</p> <p><b>encompassed</b><br/>80:23</p> <p><b>end</b><br/>56:3 80:11</p> | <p><b>ended</b><br/>15:14</p> <p><b>engaged</b><br/>15:2</p> <p><b>engineering</b><br/>18:10</p> <p><b>engineers</b><br/>14:10</p> <p><b>English</b><br/>26:3</p> <p><b>entail</b><br/>11:23</p> <p><b>entered</b><br/>95:7</p> <p><b>Enterprise</b><br/>13:10 22:5</p> <p><b>entire</b><br/>63:15</p> <p><b>entirety</b><br/>13:19 62:2</p> <p><b>enumerate</b><br/>39:15</p> <p><b>environment</b><br/>59:22</p> <p><b>equally</b><br/>43:2</p> <p><b>equipment</b><br/>31:11,16 33:1 35:17</p> <p><b>equivalent</b><br/>54:4</p> <p><b>essence</b><br/>53:10</p> <p><b>essentially</b><br/>12:4 44:3</p> <p><b>evaluate</b><br/>88:10</p> <p><b>evaluated</b><br/>16:24</p> <p><b>eventually</b><br/>77:7,9</p> <p><b>evidence</b><br/>15:12 45:16 47:5<br/>48:24 49:24 56:9<br/>64:20 65:22 66:16<br/>68:3,25 82:19</p> <p><b>exact</b><br/>31:23 94:23</p> <p><b>EXAMINATION</b><br/>5:9</p> <p><b>examined</b><br/>5:6</p> | <p><b>exchanging</b><br/>11:24</p> <p><b>exemplary</b><br/>74:12 75:22</p> <p><b>exhibit</b><br/>7:2,5,6,13,16,18,20,<br/>25 8:3,8,9,18,25<br/>28:22 29:7,12,18,21<br/>30:1,6,10 56:16,21<br/>60:18,23 61:1,5<br/>69:6,11,14</p> <p><b>exhibits</b><br/>6:20,22 8:16</p> <p><b>exist</b><br/>58:9</p> <p><b>existence</b><br/>85:19,25</p> <p><b>exotic</b><br/>53:7</p> <p><b>expect</b><br/>33:15 35:24</p> <p><b>expectation</b><br/>45:6 47:1,11 48:25<br/>49:25 50:18,24 51:5,<br/>12 52:15 53:13,23<br/>64:8,15 80:4</p> <p><b>expectations</b><br/>52:19</p> <p><b>expected</b><br/>46:3 68:25</p> <p><b>expensive</b><br/>14:18</p> <p><b>experience</b><br/>31:18</p> <p><b>experiences</b><br/>11:17</p> <p><b>experimentation</b><br/>53:12</p> <p><b>expert</b><br/>5:21 9:17 10:4,10,22<br/>11:4,8 44:11,14 45:3</p> <p><b>explain</b><br/>41:16 46:1,7,12 47:8<br/>48:12 50:4,14 52:23<br/>53:20 54:6 56:14<br/>58:11,17,23 61:18,<br/>20,25 62:2,12 87:17</p> <p><b>explained</b><br/>28:14 65:1 80:12<br/>81:9</p> <p><b>explaining</b><br/>48:13 55:7</p> | <p><b>explains</b><br/>42:9 52:17 58:20<br/>62:3,4,17 72:11,13<br/>76:8,19 82:25</p> <p><b>explanation</b><br/>86:17</p> <p><b>explicit</b><br/>19:24 84:7</p> <p><b>explicitly</b><br/>18:13 21:1 44:20<br/>45:8,13</p> <p><b>express</b><br/>72:15 87:12,19</p> <p><b>extent</b><br/>68:2,20</p> <p><b>extra</b><br/>21:21 50:9</p> <p><b>extraordinarily</b><br/>14:19</p> <p><b>extrinsic</b><br/>15:12</p> <hr/> <p><b>F</b></p> <hr/> <p><b>fact</b><br/>8:16 26:1,2 49:7<br/>84:2</p> <p><b>fair</b><br/>6:8,13 16:13 30:12</p> <p><b>familiar</b><br/>18:8 33:14 47:9,24<br/>48:2</p> <p><b>feature</b><br/>25:25 53:21</p> <p><b>features</b><br/>14:3 21:10,12 24:25<br/>31:22 57:7,8</p> <p><b>feel</b><br/>6:22</p> <p><b>felt</b><br/>14:8,12 68:3</p> <p><b>field</b><br/>18:3,8</p> <p><b>figure</b><br/>69:17,18,19,23<br/>86:24 88:25 89:2,7,<br/>15 90:10 93:23,24<br/>94:4,11,16,24 95:10</p> <p><b>figures</b><br/>69:22 70:1,2,3,4,7,<br/>13,14,19 71:1,3,12,<br/>19 74:8,10</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>file</b><br/>15:18</p> <p><b>filed</b><br/>61:8</p> <p><b>find</b><br/>19:21 53:5</p> <p><b>finger</b><br/>79:9 81:2</p> <p><b>flavors</b><br/>13:8</p> <p><b>folder</b><br/>34:8,9 35:2 79:20<br/>84:3 89:3,6,15,18,21<br/>90:6,14,17 94:10</p> <p><b>folders</b><br/>22:20 88:18</p> <p><b>forgotten</b><br/>62:10</p> <p><b>form</b><br/>18:17 23:25 25:23<br/>26:21 27:8,24 38:4,<br/>12 40:13,18 41:4,14<br/>42:5 46:10 49:18<br/>58:4 60:1 63:21<br/>64:23 66:21 67:21<br/>74:12 75:14,18 78:9<br/>83:21 91:17 92:17<br/>93:6 94:7</p> <p><b>forming</b><br/>17:25</p> <p><b>found</b><br/>9:11 15:13 54:9<br/>55:25 80:24</p> <p><b>frame</b><br/>21:20 54:11 68:2<br/>71:20 73:15 78:2,7<br/>86:15,21,22</p> <p><b>free</b><br/>6:22</p> <p><b>FRIDAY</b><br/>5:1</p> <p><b>front</b><br/>7:11 30:3 73:20</p> <p><b>full</b><br/>12:24 32:14</p> <p><b>functional</b><br/>48:9</p> <p><b>functionality</b><br/>12:24 31:24 32:1,14</p> <p><b>functions</b><br/>24:5 57:7</p> | <hr/> <p><b>G</b></p> <hr/> <p><b>games</b><br/>12:25</p> <p><b>Gates</b><br/>30:22</p> <p><b>geeks</b><br/>30:20</p> <p><b>general</b><br/>87:17</p> <p><b>generally</b><br/>26:12 52:8 73:12<br/>75:2 89:18 91:23</p> <p><b>give</b><br/>13:17 95:15</p> <p><b>good</b><br/>5:11 86:2</p> <p><b>Gotcha</b><br/>16:8</p> <p><b>graphic</b><br/>12:22 26:15 74:1<br/>80:19</p> <p><b>graphical</b><br/>73:6,13,16,18</p> <p><b>graphics</b><br/>11:25 12:15,17<br/>14:18 40:1</p> <p><b>great</b><br/>9:21 46:11 94:13</p> <p><b>greater</b><br/>75:3</p> <p><b>ground</b><br/>5:22 20:8,9,16,21<br/>45:25 47:15 48:11<br/>59:6 67:11,18 68:9<br/>83:8,11,19,20 84:1,<br/>6,12,24 85:6,9,15,<br/>16,22,23</p> <p><b>Grounds</b><br/>22:22</p> <p><b>guess</b><br/>38:14</p> <p><b>GUI</b><br/>79:1,4</p> <hr/> <p><b>H</b></p> <hr/> <p><b>half</b><br/>12:15</p> <p><b>hands</b><br/>70:16</p> | <p><b>happen</b><br/>19:17</p> <p><b>hard</b><br/>6:21,23,25</p> <p><b>harder</b><br/>70:9</p> <p><b>hardware</b><br/>12:3,5 26:12 27:12<br/>30:18,24 31:2 32:3,<br/>5,9,13,16 37:10<br/>43:16 44:4,10 45:9<br/>47:25 49:6,9 52:24<br/>53:2,6,9 82:13,15,25<br/>83:2</p> <p><b>head</b><br/>33:14</p> <p><b>heading</b><br/>30:17 33:21 36:3</p> <p><b>heard</b><br/>37:16</p> <p><b>hearing</b><br/>11:3</p> <p><b>HEINTZ</b><br/>18:16 23:25 25:23<br/>26:21 27:8,24 38:4,<br/>12 40:13,18 41:4,14<br/>42:5 46:10 49:18<br/>58:4 60:1 63:21<br/>64:23 66:21 67:21<br/>75:18 78:9 83:21<br/>86:4 91:17 92:17<br/>93:6 95:14,19</p> <p><b>held</b><br/>70:22</p> <p><b>high</b><br/>53:13</p> <p><b>higher</b><br/>89:12</p> <p><b>hindsight</b><br/>65:19,22 66:2</p> <p><b>hinge</b><br/>54:20 85:14 92:1</p> <p><b>hinges</b><br/>87:15</p> <p><b>history</b><br/>15:18</p> <p><b>Hold</b><br/>18:16</p> <p><b>home</b><br/>13:10 89:8 94:16</p> <p><b>horizontal</b><br/>93:14</p> | <p><b>Hotelling</b><br/>48:12 50:23 51:3,14,<br/>17 68:5,15,23,25<br/>69:10,14,16 71:1,12,<br/>14,19,22,23 72:18,<br/>24 73:24 74:3,4,16,<br/>23 75:5,7,11,20,23<br/>76:3,7,15,21 77:1,5,<br/>21,23,25 78:6,25<br/>79:10,22 80:5 83:12,<br/>24 84:7 85:20</p> <p><b>Hotelling's</b><br/>50:19</p> <p><b>hour</b><br/>14:24 51:21</p> <p><b>hours</b><br/>15:1,5</p> <p><b>HP</b><br/>10:5,6,9,13,18 15:2<br/>32:23</p> <p><b>hypothetical</b><br/>18:1,7</p> <hr/> <p><b>I</b></p> <hr/> <p><b>icon</b><br/>79:19 89:3,7,15<br/>90:7,15,17,21,25<br/>91:2,5,9,10,15<br/>93:22,24 94:10,19,<br/>21</p> <p><b>icons</b><br/>22:20 24:3 63:6<br/>64:14 79:8 83:15<br/>95:2</p> <p><b>idea</b><br/>40:5</p> <p><b>Ideally</b><br/>92:6</p> <p><b>identical</b><br/>79:20</p> <p><b>identification</b><br/>7:7,21 28:23 56:17<br/>60:19 69:7</p> <p><b>identify</b><br/>24:14 25:19 88:21</p> <p><b>II</b><br/>8:12 16:1,4</p> <p><b>illustrated</b><br/>94:4,13,15,24</p> <p><b>illustration</b><br/>94:1,22</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>illustrative</b><br/>56:5 57:14,24 58:14<br/>59:4,13 60:4</p> <p><b>ILO</b><br/>40:1</p> <p><b>immediately</b><br/>35:23</p> <p><b>implement</b><br/>23:1</p> <p><b>improper</b><br/>65:17</p> <p><b>inbound</b><br/>12:8</p> <p><b>include</b><br/>14:1 41:21 43:17<br/>74:19</p> <p><b>included</b><br/>21:21 22:13 28:16<br/>38:6 46:18</p> <p><b>includes</b><br/>33:3 34:8 80:18</p> <p><b>including</b><br/>23:2 26:13,25 43:19<br/>49:4 57:7,20 58:20</p> <p><b>incompatible</b><br/>58:7</p> <p><b>Incorporates</b><br/>73:20</p> <p><b>incorporating</b><br/>60:8</p> <p><b>independent</b><br/>64:3</p> <p><b>individual</b><br/>14:22 21:5 52:20</p> <p><b>information</b><br/>11:24 68:22 87:11</p> <p><b>informed</b><br/>50:5</p> <p><b>inherently</b><br/>18:13</p> <p><b>initial</b><br/>32:20</p> <p><b>input</b><br/>26:14,15,25 28:16<br/>37:22,25 39:22 40:4<br/>41:18 42:9 43:3 48:7<br/>50:20 53:20 57:20<br/>62:5,6 63:6 64:17<br/>80:16,18,21,25<br/>81:12,18,22 83:14</p> <p><b>input/output</b><br/>31:25</p> | <p><b>inputs</b><br/>28:5 41:22</p> <p><b>install</b><br/>23:16 46:18 48:3</p> <p><b>installed</b><br/>32:19,20,21</p> <p><b>installing</b><br/>23:15 32:6</p> <p><b>installs</b><br/>24:5,6</p> <p><b>insufficient</b><br/>68:3</p> <p><b>interact</b><br/>48:14 69:4 71:17<br/>73:6 74:2 79:1,3<br/>83:14 85:20</p> <p><b>interaction</b><br/>63:6 64:14 73:8</p> <p><b>interacts</b><br/>58:21</p> <p><b>interchangeably</b><br/>81:5</p> <p><b>interface</b><br/>73:7 74:1</p> <p><b>interfaces</b><br/>48:1 73:13,16,19</p> <p><b>introduced</b><br/>57:3 61:13,17</p> <p><b>invalidity</b><br/>16:22</p> <p><b>invention</b><br/>65:9 71:9</p> <p><b>involved</b><br/>10:8 11:24 12:1,7<br/>13:9 85:14</p> <p><b>IP</b><br/>12:7</p> <p><b>iphone</b><br/>57:19</p> <p><b>IPR</b><br/>19:5</p> <p><b>issuance</b><br/>75:5</p> <p><b>issued</b><br/>56:25</p> <p><b>ITC</b><br/>11:3</p> <p><b>items</b><br/>33:8</p> | <p><b>J</b></p> <p><b>January</b><br/>9:4,20,23 11:14</p> <p><b>Jason</b><br/>5:16</p> <p><b>joined</b><br/>12:14</p> <p><b>judgment</b><br/>76:23 77:4</p> <p><b>July</b><br/>17:11</p> <p><b>jump</b><br/>20:2</p> <p><b>K</b></p> <p><b>keyboard</b><br/>26:1 27:16 32:12<br/>33:3 35:16,20 36:4,<br/>11,19,23 37:2 83:3</p> <p><b>kind</b><br/>34:22,25 49:8 71:6<br/>82:23 93:5</p> <p><b>kinds</b><br/>14:12,20,21 24:12<br/>33:7 41:16,17 43:16<br/>80:21</p> <p><b>king</b><br/>33:22</p> <p><b>Kits</b><br/>13:25</p> <p><b>knowing</b><br/>46:18</p> <p><b>knowledge</b><br/>9:9 11:15 18:2,7<br/>24:15 25:7,20 26:4<br/>27:5,14,18 28:6,7,21<br/>45:20 51:14 56:6,10<br/>58:15 59:14,21 60:4,<br/>8 65:24 84:4,6</p> <p><b>knowledgeable</b><br/>56:11</p> <p><b>Kurtenbach</b><br/>50:6,12 55:21,23<br/>56:5,8,15,23,25<br/>57:14,24 58:2,6,11,<br/>14,17,23 59:4,12,13,<br/>16,22,24 60:4 65:7</p> | <p><b>L</b></p> <p><b>La</b><br/>5:14</p> <p><b>labels</b><br/>89:7</p> <p><b>Laboratory</b><br/>12:4</p> <p><b>landscape</b><br/>93:16,19</p> <p><b>Lane</b><br/>20:9 25:22 44:15,23<br/>45:25 46:5 47:7<br/>49:3,10,16 50:3,12,<br/>25 51:14,17 52:18<br/>53:1,5,8,12,20,25<br/>55:3,7,13,15 56:12<br/>59:7,11,25 60:6 65:6<br/>68:14 80:4,14 81:6<br/>83:18,23 84:13 85:5,<br/>12,17,24 88:7 95:6</p> <p><b>Lane's</b><br/>20:17,22 22:23<br/>23:10 46:8,22 49:1<br/>50:2 53:21 54:22<br/>55:1,6 58:17,23<br/>61:25 63:23 64:3,11<br/>68:10,12,13 78:17<br/>79:3,6 81:24</p> <p><b>Lane-pogue</b><br/>67:19,25 69:1</p> <p><b>Lane-pogue-hotelling</b><br/>83:7,16</p> <p><b>language</b><br/>46:24</p> <p><b>laptop</b><br/>26:10 37:17 38:5,16<br/>39:21 43:18 46:15,<br/>17 47:2,25 48:2,14<br/>50:7 52:13 53:5,19<br/>54:10 57:19,23<br/>62:19,24 63:8,23<br/>66:9 68:1 70:17,23<br/>71:2,10 73:3,4,10<br/>76:5 78:1,7 81:22<br/>82:5 92:2,5 94:2,3,<br/>23</p> <p><b>laptops</b><br/>26:13,25 28:1 57:21<br/>61:15 73:15</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>large</b><br/>31:24 81:3</p> <p><b>law</b><br/>16:11,13</p> <p><b>lawyer</b><br/>16:8</p> <p><b>LCD</b><br/>26:16</p> <p><b>leads</b><br/>47:11</p> <p><b>leap</b><br/>81:3</p> <p><b>leave</b><br/>6:8</p> <p><b>left</b><br/>30:6 89:11 90:23<br/>93:12</p> <p><b>legal</b><br/>16:5</p> <p><b>lengthy</b><br/>87:15</p> <p><b>Lenovo</b><br/>32:23 39:23</p> <p><b>letter</b><br/>36:12,20,24</p> <p><b>level</b><br/>16:24 25:6</p> <p><b>levels</b><br/>31:20</p> <p><b>license</b><br/>13:25</p> <p><b>licensing</b><br/>12:8</p> <p><b>limit</b><br/>21:5</p> <p><b>limited</b><br/>68:14</p> <p><b>limiting</b><br/>71:6</p> <p><b>limits</b><br/>70:25</p> <p><b>lines</b><br/>52:9 60:15</p> <p><b>Linux</b><br/>74:20 81:13</p> <p><b>list</b><br/>9:17 11:11 20:12<br/>33:2,3 35:13 41:7<br/>74:23 75:20</p> <p><b>listed</b><br/>33:6,8 74:21 75:15</p> | <p><b>lists</b><br/>32:25 35:16 37:10<br/>42:8 74:16</p> <p><b>literally</b><br/>8:12</p> <p><b>litl</b><br/>5:17</p> <p><b>local</b><br/>89:12</p> <p><b>located</b><br/>89:7</p> <p><b>location</b><br/>35:24</p> <p><b>long</b><br/>10:17</p> <p><b>longer</b><br/>93:14</p> <p><b>longitudinal</b><br/>87:24</p> <p><b>looked</b><br/>15:12,18</p> <p><b>lots</b><br/>40:3</p> <hr/> <p style="text-align: center;"><b>M</b></p> <hr/> <p><b>Mac</b><br/>79:15,17,20,23</p> <p><b>machine</b><br/>32:21</p> <p><b>macos</b><br/>75:16</p> <p><b>made</b><br/>12:12,14,16,17 19:2</p> <p><b>main</b><br/>86:24</p> <p><b>maintain</b><br/>44:24</p> <p><b>make</b><br/>14:9,13 52:18 53:16</p> <p><b>makes</b><br/>24:6 42:10 58:7<br/>68:13,15</p> <p><b>making</b><br/>45:7</p> <p><b>managed</b><br/>11:20</p> <p><b>manipulate</b><br/>33:12 34:12 35:5,10,<br/>21 37:3 38:3,7,24<br/>39:4 51:2</p> <p><b>manual</b></p> | <p>29:8,12 79:12</p> <p><b>manually</b><br/>92:23</p> <p><b>manufacturer</b><br/>39:19 82:11</p> <p><b>manufacturers</b><br/>32:3 57:20</p> <p><b>map</b><br/>83:7,16</p> <p><b>mapping</b><br/>83:10,11</p> <p><b>marked</b><br/>7:7,21 28:23 56:17<br/>60:19 69:7</p> <p><b>market</b><br/>14:9 24:20 28:19<br/>41:20 47:8 57:18<br/>66:15 67:1 68:19<br/>76:4</p> <p><b>marketed</b><br/>21:6,19</p> <p><b>marketing</b><br/>13:8 21:21 22:6 23:7</p> <p><b>materials</b><br/>15:16</p> <p><b>matter</b><br/>8:5 10:19,23 14:24</p> <p><b>matters</b><br/>10:1,6</p> <p><b>meaning</b><br/>17:18</p> <p><b>means</b><br/>19:10 34:22 46:4<br/>47:3</p> <p><b>meant</b><br/>12:4</p> <p><b>mechanisms</b><br/>85:14</p> <p><b>mention</b><br/>21:17,23 22:2,5 23:4<br/>43:4,7 45:18 53:14,<br/>18 55:4 63:10 65:12<br/>73:2,9 75:23 77:5,11<br/>78:6</p> <p><b>mentioned</b><br/>17:15 39:16 48:16<br/>51:8 63:7 66:24<br/>81:20</p> <p><b>mentioning</b><br/>78:11</p> <p><b>mentions</b><br/>54:17 62:21 76:15,</p> | <p>21 77:1,6,8</p> <p><b>menu</b><br/>34:4,7</p> <p><b>menus</b><br/>58:1,21 63:7 64:14</p> <p><b>met</b><br/>15:19,23</p> <p><b>mice</b><br/>26:15 50:21</p> <p><b>Microsoft</b><br/>11:9,21 12:6 13:2,<br/>17,22 21:6 22:6<br/>39:23 41:7 76:24</p> <p><b>mind</b><br/>47:1</p> <p><b>minimal</b><br/>49:8</p> <p><b>minimum</b><br/>45:8 52:23 53:2,6,8</p> <p><b>minute</b><br/>20:4</p> <p><b>misheard</b><br/>72:2</p> <p><b>misleading</b><br/>60:3</p> <p><b>missed</b><br/>50:9 54:24</p> <p><b>Missing</b><br/>29:8,12</p> <p><b>MIT</b><br/>85:9,13</p> <p><b>mixed</b><br/>20:5</p> <p><b>mode</b><br/>68:2 70:16,17,23<br/>71:2,13,15,20 73:10<br/>78:2,7 84:17 86:15,<br/>21,22,25 87:3,5<br/>88:9,19,22 90:4,7<br/>92:3,5,8,13,21,22<br/>93:16 94:2,3,7,25</p> <p><b>modems</b><br/>12:17</p> <p><b>modes</b><br/>54:11 78:22 79:4<br/>88:14 95:7</p> <p><b>modifications</b><br/>81:24 82:2,8</p> <p><b>modified</b><br/>23:9,12,22</p> <p><b>modify</b><br/>23:19 24:2,11 67:19</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>monitor</b><br>37:13,18<br><b>morning</b><br>5:11<br><b>motivated</b><br>48:13 59:24 67:19<br>78:17 84:13<br><b>motivates</b><br>48:12<br><b>motivations</b><br>26:9<br><b>mouse</b><br>26:1 31:21,22 33:3,<br>9,11,22,25 34:3,11<br>35:4,9 36:8 40:5<br>42:24,25 45:1 58:22<br>62:4,7,18 82:16 83:3<br><b>move</b><br>40:10 41:1 42:1<br>53:22 54:21<br><b>multiple</b><br>19:18<br><hr/> <b>N</b><br><hr/> <b>names</b><br>21:6 22:6<br><b>navigation</b><br>84:17,22,25 85:3,4,<br>10,13,18,25 87:7,10<br><b>NDA</b><br>11:25 14:1<br><b>needed</b><br>24:23 43:21<br><b>Network</b><br>79:7 94:8,10,19<br><b>nonresponsive</b><br>40:11 41:1,24<br><b>normal</b><br>23:20 24:5,8,12<br>82:23 94:22<br><b>notes</b><br>7:1<br><b>notion</b><br>93:2<br><b>NT</b><br>13:11<br><b>number</b><br>6:20 7:14,25 8:12,<br>18,19 20:7 30:5,6,<br>10,11 50:10 54:2,6<br><b>numbers</b><br>8:17 | <b>numeral</b><br>8:12<br><hr/> <b>O</b><br><hr/> <b>oath</b><br>5:6<br><b>object</b><br>23:25 40:10,25<br>41:23<br><b>Objection</b><br>18:17 25:23 26:21<br>27:8,24 38:4,12<br>40:13,18 41:4,14<br>42:5 46:10 49:18<br>58:4 60:1 63:21<br>64:23 66:21 67:21<br>75:18 78:9 83:21<br>91:17 92:17 93:6<br><b>observed</b><br>15:13<br><b>obsolete</b><br>62:11<br><b>obvious</b><br>19:4,7,11,22,25<br>54:5,7,9 55:25 59:7,<br>11 80:24<br><b>obviousness</b><br>65:18<br><b>occasions</b><br>10:12 15:20<br><b>OEM</b><br>32:22<br><b>offer</b><br>13:2 21:15<br><b>offered</b><br>13:4<br><b>offering</b><br>23:8<br><b>office</b><br>89:8 91:1,3 94:15<br><b>Office's</b><br>15:16<br><b>officer</b><br>7:8,22 28:24 56:18<br>60:20 69:8<br><b>open</b><br>76:10 84:3<br><b>open-ended</b><br>33:2 42:8,16 74:22,<br>25 76:20 77:12<br>81:19 | <b>opening</b><br>79:19<br><b>operability</b><br>54:17<br><b>operable</b><br>46:5,8 47:4 53:15,24<br>54:10 56:1 58:25<br>59:3,17 63:3,19<br>64:12 66:13 67:25<br>69:1<br><b>operate</b><br>55:17 58:12,18<br>61:19 62:1,3 81:25<br>83:25<br><b>operates</b><br>61:24<br><b>operating</b><br>20:17 24:3,11,18<br>25:16 26:11 27:10<br>28:3,4 33:12 34:13,<br>15,18 35:5,10,21<br>37:3 38:24 39:5<br>46:15,17 47:2 48:4<br>49:8 64:3 65:15<br>71:17 74:16,19,24<br>75:1,4 76:7,18,19,<br>22,24 77:2,6,8,11,<br>13,16 79:16,23,24<br>82:1,5,24<br><b>operation</b><br>23:20 46:23 62:14<br>63:8 66:4,19 82:10<br><b>operational</b><br>52:16,19<br><b>opine</b><br>44:18 46:21 50:17<br>53:8,10 59:23 67:18<br>77:21 79:5 80:3<br>84:12 90:3,6 94:6<br><b>opined</b><br>80:1<br><b>opinion</b><br>17:10 19:1 20:21<br>21:15 23:8,21 44:11,<br>14 45:21,23 47:6,14<br>49:17 50:23 51:6,12<br>59:10 77:5 86:17<br>87:12,14,18,22<br>88:17<br><b>opinions</b><br>18:1 22:21 64:2<br>86:12,14 87:19,21 | <b>opposed</b><br>6:12 30:11 83:19<br>93:4<br><b>opposite</b><br>95:3<br><b>order</b><br>12:23 82:9 92:13<br><b>ordinarily</b><br>25:17<br><b>ordinary</b><br>16:19,23 17:13,22<br>18:9,10,20 19:14,19,<br>23,25 21:18 23:13,<br>18 24:10,21 25:3,6,<br>15 26:5,7 27:12,18<br>28:8,18,20 40:22<br>41:18 42:7,15 43:1,<br>14,16 44:3,9,16,21,<br>24 46:14 47:9,11,22<br>48:4,10 49:13 50:15<br>51:1,15,18 53:4,7,11<br>54:8 56:7,12 57:15,<br>22 58:16 59:1,8,14,<br>19 60:5,6 61:22<br>62:8,16 65:14 66:9,<br>10,14,17,24 67:24<br>68:4,16,17,18,20<br>71:16 73:14 76:2<br>78:3,13 79:2,18<br>80:17,22 81:9,20,22<br>82:4 83:1 84:2,5<br>92:25<br><b>orientation</b><br>91:4,9,11 92:9,20<br>93:1,4,11 94:19,20<br><b>orientations</b><br>95:3,6<br><b>original</b><br>94:12<br><b>originally</b><br>30:12<br><b>OS</b><br>74:20<br><b>OS/2</b><br>74:19 76:23<br><b>outbound</b><br>12:8<br><b>output</b><br>26:14 41:18<br><b>owner</b><br>5:17 15:17 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>P</b></p> <p><b>pages</b><br/>29:9,13 30:1 67:8,11</p> <p><b>paging</b><br/>20:5</p> <p><b>Palm</b><br/>74:20</p> <p><b>palmtop</b><br/>33:5</p> <p><b>paper</b><br/>17:7</p> <p><b>paragraph</b><br/>20:13,16 31:9 32:25<br/>45:5 47:13,16,17<br/>48:6,11,21 49:2,23,<br/>24 50:8,10,13,17<br/>51:5,8,11 52:3,6,17,<br/>21 53:14,16,22,23<br/>54:12,16,20,21,22,<br/>25 55:9,12,19 60:11<br/>62:25 63:11,13,17<br/>64:2,6 67:5 71:24,25<br/>72:1,7,11,15,17,21,<br/>23 73:2,9,17 74:14,<br/>17,24 75:8,11,21<br/>76:10 77:14,20<br/>78:16 79:5 80:2 88:4<br/>90:2</p> <p><b>paragraphs</b><br/>19:12 47:13 48:16<br/>54:15 55:14 67:9,12,<br/>15 68:24 72:8,24<br/>77:22</p> <p><b>parameters</b><br/>33:13 34:13,16,18<br/>35:5,10,22 37:4<br/>38:3,24 39:5</p> <p><b>part</b><br/>7:2 8:18 26:8 27:14<br/>28:7 32:20 38:11,14,<br/>15,16 40:21 45:21<br/>76:12 77:10 82:14<br/>83:8 94:14</p> <p><b>partially</b><br/>87:23</p> <p><b>parts</b><br/>29:19,21,23</p> <p><b>party</b><br/>39:25</p> <p><b>paste</b><br/>36:24</p> | <p><b>patent</b><br/>5:17 7:13,17,18<br/>15:15,17 16:18,25<br/>17:15,23 18:11,25<br/>34:24 56:25 61:8<br/>71:14 73:19,22 82:3<br/>84:22 88:9 91:21<br/>94:5,24 95:10</p> <p><b>patents</b><br/>12:9 15:11 64:25<br/>65:6,8,11</p> <p><b>PC</b><br/>21:16,24 22:3,9,15<br/>30:24 31:3 33:1<br/>42:14 76:14 91:3</p> <p><b>PC's</b><br/>89:8,22 90:18,22<br/>91:1,7 94:16</p> <p><b>peek</b><br/>17:7</p> <p><b>pen</b><br/>26:15,25 28:5,16<br/>37:25 39:22 41:22<br/>43:3 48:7 53:20<br/>57:20 80:16,18,21,<br/>25 81:2,12 83:14</p> <p><b>pen-based</b><br/>53:18 54:1,9 56:1<br/>63:2 64:12,17,21</p> <p><b>pen-input</b><br/>39:1,3 46:8,23 76:6</p> <p><b>penalty</b><br/>9:6</p> <p><b>pending</b><br/>6:7</p> <p><b>pens</b><br/>57:8</p> <p><b>people</b><br/>37:16</p> <p><b>percent</b><br/>24:20</p> <p><b>perfectly</b><br/>31:5</p> <p><b>period</b><br/>11:13</p> <p><b>peripherals</b><br/>42:8</p> <p><b>perjury</b><br/>9:7</p> <p><b>permissive</b><br/>75:14</p> <p><b>permit</b></p> | <p>33:12 34:12 35:4,21<br/>37:3 38:2,23 39:4</p> <p><b>person</b><br/>16:19,23 17:13,22<br/>18:1,7,20 19:14,19,<br/>23,25 21:18 24:10,<br/>21 25:3,14 26:5,7<br/>27:12,18 28:7,18,20<br/>31:18 32:22 40:22<br/>41:18 42:6,15 43:1,<br/>14,16 44:2,9,16,21,<br/>24 46:14 47:8,22<br/>48:10 49:12 50:14<br/>51:1,15,18 53:3,10<br/>54:7 56:6,11 57:15,<br/>22 58:16,21 59:1,8,<br/>14,19 60:5 61:22<br/>62:7,15,18 65:14<br/>66:10,13,17,24<br/>67:24 68:4,17,20<br/>71:16 73:14 76:2<br/>78:3,13 79:1,18<br/>80:17,21 81:9,20<br/>83:1,13 84:4 92:25</p> <p><b>personal</b><br/>7:1</p> <p><b>personally</b><br/>13:21</p> <p><b>perspective</b><br/>16:19 25:3,14 60:7<br/>61:22 62:7,15 67:23<br/>69:3 82:3</p> <p><b>petition</b><br/>16:7 19:19</p> <p><b>petitioner</b><br/>19:6</p> <p><b>Ph.d.</b><br/>5:4</p> <p><b>phrase</b><br/>55:2</p> <p><b>physical</b><br/>38:6,10 68:1 78:18</p> <p><b>physically</b><br/>79:3</p> <p><b>Pictures</b><br/>79:7 90:6,14,17<br/>91:4,10 93:22</p> <p><b>piece</b><br/>30:18 31:11,15<br/>32:16 44:4 56:8<br/>82:13</p> <p><b>pieces</b><br/>32:25 35:17 44:10</p> | <p><b>place</b><br/>35:9 50:17 80:25<br/>86:2</p> <p><b>Places</b><br/>79:8 94:8,10,19</p> <p><b>platform</b><br/>6:20 11:25</p> <p><b>playback</b><br/>14:11</p> <p><b>Pogue</b><br/>20:10,18,22 21:2,4,<br/>8,9 22:2,8,11,14,18,<br/>19,23 23:10,16,17<br/>24:8,23,24 25:9,22<br/>26:6,10 28:14 29:8,<br/>13 30:11,15,20 31:2,<br/>9,14 33:11,17,19<br/>34:11 35:3,9,16,20,<br/>25 36:6,10,19,23<br/>37:2,10 39:9,13<br/>40:16,19 41:2,11<br/>42:2,18,20,22 43:4,<br/>7,10,25 44:6,17,23<br/>45:12,13,17,22 46:1,<br/>9 47:7 49:7,11,16<br/>52:6,8 55:16 57:10,<br/>13 59:7,11,25 60:7<br/>62:13,19 79:8,12,15,<br/>17 80:4 81:15 82:25<br/>83:18,23 84:13 85:5,<br/>12,17,24 88:12,13,<br/>25 90:3,7 94:6 95:2</p> <p><b>Pogue's</b><br/>24:16 50:1 58:24<br/>68:10 81:25 82:9<br/>88:17</p> <p><b>point</b><br/>15:18 30:4 31:7<br/>35:23</p> <p><b>pointed</b><br/>42:11</p> <p><b>pointing</b><br/>81:1,2</p> <p><b>popular</b><br/>25:16 46:17</p> <p><b>portable</b><br/>55:5 68:7</p> <p><b>portion</b><br/>38:15,18,20,23<br/>94:16</p> <p><b>portions</b><br/>11:22 12:10 13:20,<br/>23 15:18 46:4 49:3</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>56:6 59:14</p> <p><b>POSA</b></p> <p>17:17,20 20:22</p> <p>24:15 25:10,20</p> <p>31:14 46:22 59:23</p> <p><b>POSAS</b></p> <p>23:8,22 27:4 67:18</p> <p>68:25 78:16 79:5</p> <p>80:3 84:12</p> <p><b>POSITA</b></p> <p>17:13,20 18:1,4</p> <p>22:25 45:6,14,18,20</p> <p>46:2 49:5,21,24</p> <p>50:4,5 54:2,5 55:24</p> <p>64:7 65:2,24</p> <p><b>POSITAS</b></p> <p>21:15 22:22</p> <p><b>position</b></p> <p>70:15</p> <p><b>positions</b></p> <p>24:4</p> <p><b>potentially</b></p> <p>70:22</p> <p><b>power</b></p> <p>82:24</p> <p><b>precise</b></p> <p>49:15</p> <p><b>preconfigured</b></p> <p>39:22</p> <p><b>preferable</b></p> <p>50:20</p> <p><b>preference</b></p> <p>72:15</p> <p><b>preferred</b></p> <p>92:20</p> <p><b>prepare</b></p> <p>15:8</p> <p><b>preparing</b></p> <p>15:5,14</p> <p><b>present</b></p> <p>18:13</p> <p><b>pressing</b></p> <p>36:11,20,24</p> <p><b>pretty</b></p> <p>95:16</p> <p><b>previous</b></p> <p>83:10</p> <p><b>primarily</b></p> <p>47:15</p> <p><b>primary</b></p> <p>13:5 47:3</p> | <p><b>principles</b></p> <p>16:5</p> <p><b>print</b></p> <p>36:7</p> <p><b>printer</b></p> <p>45:2</p> <p><b>prior</b></p> <p>10:19 15:11 18:2,14,</p> <p>23 49:16,19 50:11</p> <p>51:4,16 55:20 56:8</p> <p>57:10 60:10 64:20</p> <p>65:23 66:3,16 67:13</p> <p>80:13 82:19 87:11</p> <p><b>priority</b></p> <p>16:25 17:22</p> <p><b>Pro</b></p> <p>20:17,22,24 21:6,10,</p> <p>20 22:1,6,12,23</p> <p>23:2,6,9,12,20,23</p> <p>24:15,25 25:10,21</p> <p>26:19,23 27:5,22</p> <p>28:2,11 29:8,12</p> <p>31:16 32:9 33:25</p> <p>34:14 35:6 37:5</p> <p>41:12 42:4 43:10,21</p> <p>44:19 45:7 46:9,22</p> <p>49:1,7 50:2 52:10,</p> <p>15,23 53:12 55:8,16</p> <p>57:3,9,11,14 58:3,8,</p> <p>12,18,24 59:3,17</p> <p>61:12,16,18 62:1,12,</p> <p>21 63:3,10,19,24</p> <p>64:11 65:12 66:4,8,</p> <p>19 68:11 74:24</p> <p>75:20,25 76:5,15</p> <p>79:12,21,24 81:25</p> <p>82:9,20</p> <p><b>proceeding</b></p> <p>19:6</p> <p><b>proceedings</b></p> <p>95:23</p> <p><b>produce</b></p> <p>13:24</p> <p><b>product</b></p> <p>14:9</p> <p><b>products</b></p> <p>12:20 40:2 66:15,25</p> <p>81:4</p> <p><b>proper</b></p> <p>62:20</p> <p><b>provide</b></p> <p>44:11,13 47:14 73:8</p> <p>86:14 87:14,22</p> | <p><b>provided</b></p> <p>9:18 10:4,22 11:4,8,</p> <p>11 29:17 82:12 87:5,</p> <p>8,11</p> <p><b>providing</b></p> <p>13:23 59:10</p> <p><b>publication</b></p> <p>75:6</p> <p><b>published</b></p> <p>68:21</p> <p><b>pull</b></p> <p>24:23</p> <p><b>purpose</b></p> <p>13:22 77:13</p> <p><b>purposes</b></p> <p>16:7,21 87:19</p> <p><b>put</b></p> <p>15:17 27:6 56:20</p> <p>62:20 78:14</p> <hr/> <p><b>Q</b></p> <hr/> <p><b>Qualification</b></p> <p>12:4</p> <p><b>question</b></p> <p>5:24 6:2,3,7,11,12,</p> <p>13 25:12 40:11</p> <p>49:14 54:21 67:10</p> <p>84:19 85:22 91:13,</p> <p>14 93:21</p> <p><b>questions</b></p> <p>5:23 6:17 16:11,12</p> <p>95:12,19</p> <p><b>quicker</b></p> <p>17:8</p> <p><b>quickly</b></p> <p>95:16</p> <hr/> <p><b>R</b></p> <hr/> <p><b>ran</b></p> <p>73:16 81:13</p> <p><b>random</b></p> <p>61:15</p> <p><b>range</b></p> <p>77:15</p> <p><b>reach</b></p> <p>58:5</p> <p><b>reacts</b></p> <p>33:25</p> <p><b>read</b></p> <p>15:11,15,16 20:18</p> <p>30:25 56:2</p> | <p><b>readable</b></p> <p>26:3</p> <p><b>readily</b></p> <p>43:24</p> <p><b>reading</b></p> <p>31:14 62:19 76:3</p> <p><b>reason</b></p> <p>6:15,18 19:15,20</p> <p><b>reasonable</b></p> <p>45:6 46:25 48:25</p> <p>49:25 50:23 51:12</p> <p>64:7,15 80:3</p> <p><b>reasoning</b></p> <p>64:15</p> <p><b>reasons</b></p> <p>46:1,2 47:8 54:6</p> <p>80:12</p> <p><b>recall</b></p> <p>9:13 10:1,7,11 11:2,</p> <p>6 15:4 26:22 42:20</p> <p>43:6,9 44:8 47:18</p> <p>70:24 71:21 78:10</p> <p>81:17 82:22</p> <p><b>received</b></p> <p>7:7,21 28:23 56:17</p> <p>60:19 69:7</p> <p><b>recent</b></p> <p>10:16 11:7</p> <p><b>recently</b></p> <p>15:19</p> <p><b>recess</b></p> <p>51:25 86:6 95:18</p> <p><b>recognize</b></p> <p>7:13 8:3</p> <p><b>recollection</b></p> <p>79:18</p> <p><b>recommended</b></p> <p>31:23 45:9 52:24</p> <p><b>reconfigurable</b></p> <p>91:22,25</p> <p><b>reconfigures</b></p> <p>92:7</p> <p><b>reconstruct</b></p> <p>11:16</p> <p><b>record</b></p> <p>5:13 15:17 51:24</p> <p>86:5</p> <p><b>records</b></p> <p>10:15 11:16</p> <p><b>red</b></p> <p>89:3 90:13</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                              |                                                                    |                                                                                                                                                                               |                                                                                                       |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>redescribe</b><br>63:15                                                                   | <b>rendered</b><br>19:1                                            | <b>rotational</b><br>94:18,20                                                                                                                                                 | <b>selecting</b><br>79:19                                                                             |
| <b>refer</b><br>7:16 8:15 30:9,10<br>37:16 67:13 73:19<br>83:10 85:9                         | <b>repeat</b><br>5:24                                              | <b>rules</b><br>5:22                                                                                                                                                          | <b>selections</b><br>24:7                                                                             |
| <b>reference</b><br>18:3,14,15,19 21:9<br>24:24 25:9 45:22<br>56:9 57:10 60:10<br>73:21 75:5 | <b>rephrase</b><br>49:14                                           | <b>run</b><br>20:22,25 21:15<br>22:22 82:20                                                                                                                                   | <b>selectors</b><br>94:25                                                                             |
| <b>referenced</b><br>28:14                                                                   | <b>report</b><br>24:14 25:19 28:10<br>44:12,14,18 45:4             | <b>running</b><br>20:17 23:10 34:14<br>35:6 37:5 41:12 42:3<br>46:9,22 47:2 49:1<br>50:1 55:8,16 58:3,<br>18,24 59:2 62:1<br>63:3,19,24 64:4,11<br>68:10 73:13 75:12<br>83:18 | <b>sense</b><br>52:18 87:17                                                                           |
| <b>references</b><br>19:18,20 28:18<br>49:16,20 50:12 51:4,<br>16 55:20                      | <b>reporter</b><br>5:6                                             | <hr/>                                                                                                                                                                         | <b>sentence</b><br>20:15 52:14,22<br>55:23 56:3 64:6<br>77:20 80:2,8,11,13                            |
| <b>referred</b><br>89:17                                                                     | <b>reports</b><br>10:10                                            | <b>S</b><br><hr/>                                                                                                                                                             | <b>sentences</b><br>52:20                                                                             |
| <b>referring</b><br>7:17 64:11                                                               | <b>represent</b><br>5:16 29:16                                     | <b>S3</b><br>11:18 12:12,14 13:2<br>14:4                                                                                                                                      | <b>set</b><br>41:8                                                                                    |
| <b>regular</b><br>23:15                                                                      | <b>represented</b><br>21:4                                         | <b>Santa</b><br>5:15                                                                                                                                                          | <b>setting</b><br>30:17 34:22 49:5                                                                    |
| <b>relate</b><br>52:14                                                                       | <b>require</b><br>82:4                                             | <b>scanner</b><br>33:4                                                                                                                                                        | <b>settings</b><br>34:9                                                                               |
| <b>relation</b><br>91:9 93:23 94:20                                                          | <b>required</b><br>12:22 30:23 35:17<br>68:1 81:24 82:9            | <b>scope</b><br>24:9                                                                                                                                                          | <b>setup</b><br>23:15,17 24:7                                                                         |
| <b>relationship</b><br>11:20 14:7                                                            | <b>requirements</b><br>12:1 45:9 52:24<br>53:2,6,9                 | <b>scratch</b><br>14:3,21                                                                                                                                                     | <b>share</b><br>24:20                                                                                 |
| <b>relative</b><br>91:5 95:9,11                                                              | <b>requires</b><br>30:18 31:3 37:11                                | <b>screen</b><br>22:20 33:4 37:10,13,<br>17,19,21 38:1,5,11,<br>14,19,21,22 39:1<br>40:22 69:4 83:15<br>91:12,15 92:4 94:14                                                   | <b>shared</b><br>69:11                                                                                |
| <b>release</b><br>13:14                                                                      | <b>respect</b><br>55:12 71:10 91:11<br>93:2                        | <b>screens</b><br>37:22 39:2,3                                                                                                                                                | <b>sharing</b><br>34:8                                                                                |
| <b>relevant</b><br>16:5 18:3 62:9 79:4,<br>25                                                | <b>rest</b><br>56:2                                                | <b>scroll</b><br>17:5 69:19,22 70:1                                                                                                                                           | <b>Shimano</b><br>50:6,12 56:13 60:12,<br>14 61:5,8,18,25<br>62:12,21 65:7                            |
| <b>relied</b><br>22:10,19 88:11                                                              | <b>retained</b><br>15:10                                           | <b>section</b><br>16:1,4 33:24 35:8<br>45:10 67:11 86:11,<br>14                                                                                                               | <b>short</b><br>51:22                                                                                 |
| <b>rely</b><br>21:13 22:17 46:5<br>58:13 80:8 84:16<br>85:23 88:13                           | <b>reverse</b><br>93:19                                            | <b>sections</b><br>67:14                                                                                                                                                      | <b>shortcut</b><br>34:4,7 90:14,17                                                                    |
| <b>relying</b><br>84:24 85:16                                                                | <b>right-clicking</b><br>34:7                                      | <b>security</b><br>34:9                                                                                                                                                       | <b>shortcuts</b><br>79:8                                                                              |
| <b>remained</b><br>57:8                                                                      | <b>right-hand</b><br>20:7                                          | <b>Segawa</b><br>84:14,16,24 85:2                                                                                                                                             | <b>show</b><br>19:6 27:14,16,17,22<br>28:10 50:6,25 65:23<br>66:23 70:2,4,7,14,19<br>88:25 89:2 90:10 |
| <b>remember</b><br>10:14,21 11:1 12:2                                                        | <b>rotate</b><br>92:20                                             | <b>select</b><br>51:2 79:7                                                                                                                                                    | <b>showed</b><br>28:13                                                                                |
| <b>REMOTE</b><br>5:1                                                                         | <b>rotated</b><br>94:3                                             |                                                                                                                                                                               | <b>showing</b><br>28:1                                                                                |
| <b>remotely</b><br>5:6                                                                       | <b>rotation</b><br>85:14 91:25 93:17,<br>18,22,23,25 94:23<br>95:1 |                                                                                                                                                                               | <b>shown</b><br>70:3 89:15 90:22,25<br>91:2                                                           |
|                                                                                              |                                                                    |                                                                                                                                                                               | <b>shows</b><br>69:20,23 71:1,12,19                                                                   |

|                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|
| 74:7                 | <b>sophisticated</b> | <b>starts</b>        | <b>support</b>       |
| <b>side</b>          | 32:13                | 85:23                | 47:6 49:17 82:10     |
| 92:14 93:2,11        | <b>sound</b>         | <b>state</b>         | <b>supported</b>     |
| <b>sign</b>          | 12:16                | 5:12 64:7 78:16 82:7 | 13:7 66:7            |
| 9:2                  | <b>source</b>        | <b>states</b>        | <b>supporting</b>    |
| <b>signature</b>     | 13:18,20,21,23 14:8, | 20:16 30:20          | 45:23 48:24 50:23    |
| 8:24                 | 13,16                | <b>Staying</b>       | 51:5,12              |
| <b>signed</b>        | <b>spanning</b>      | 34:21                | <b>surrounding</b>   |
| 9:4 15:3             | 67:11                | <b>step</b>          | 89:3 90:14           |
| <b>similarities</b>  | <b>speaking</b>      | 19:16                | <b>suspect</b>       |
| 72:14                | 91:23                | <b>strike</b>        | 95:16                |
| <b>simple</b>        | <b>spec</b>          | 16:15 19:4,9 25:8    | <b>switch</b>        |
| 64:17,22             | 70:10                | 33:17 40:11 41:1     | 82:25                |
| <b>simply</b>        | <b>special</b>       | 42:1 64:5 67:10 80:9 | <b>synonymous</b>    |
| 44:5 65:9 76:4,17    | 77:13                | 91:13                | 17:21 37:13          |
| 82:14 88:11          | <b>specific</b>      | <b>structural</b>    | <b>system</b>        |
| <b>single</b>        | 44:14 71:6,10 80:7,  | 47:25                | 13:5 20:18 24:3,11,  |
| 18:13                | 10                   | <b>structures</b>    | 19 25:16 26:11       |
| <b>size</b>          | <b>specifically</b>  | 83:22,24             | 27:11 28:3 46:15,17  |
| 29:19                | 24:17,23 25:13,19    | <b>subject</b>       | 47:2 48:4 49:8       |
| <b>skill</b>         | 26:19 28:13 37:24    | 71:22                | 63:14,15 64:3 65:10, |
| 16:19,23,24 17:14,   | 40:12 43:11 46:21    | <b>submitted</b>     | 16 71:17 74:24 75:4  |
| 22 18:10,20 19:14,   | 52:12 53:3 54:17     | 8:4                  | 76:8,20,22,24 77:6,  |
| 19,23 20:1 21:18     | 56:14 57:13 60:14    | <b>substantial</b>   | 7,8,11,14 79:16,23   |
| 24:10,21 25:3,15     | 63:1,17 64:13 73:3,  | 11:22 32:16          | 82:1,5,13,14,24      |
| 26:5,7 27:12,19      | 5,24 76:1,8,16,17    | <b>substitute</b>    | <b>systems</b>       |
| 28:8,18 40:22 41:19  | 77:2 78:1,6,11,23    | 42:25 62:6,18        | 26:24 28:4 73:18     |
| 42:7,15 43:1,14,16   | 79:17 80:15,16 83:6  | <b>success</b>       | 74:16,19 75:1 76:18  |
| 44:3,9,16,21,24      | 88:23 90:2           | 45:7 46:4,6 47:1,12  | 77:2,16 79:24 93:16  |
| 46:14 47:9,23 48:10  | <b>specification</b> | 50:18,24 51:6,13     |                      |
| 49:13 50:15 51:1,15, | 70:24                | 53:13 64:8,16 80:4   | <b>T</b>             |
| 19 53:4,11 54:8      | <b>specifics</b>     | <b>suggest</b>       | <b>tablet</b>        |
| 56:7,12 57:15,22     | 26:6 73:25           | 70:16                | 21:16,19,24 22:3,9,  |
| 58:16 59:1,8,15,19   | <b>spend</b>         | <b>suggested</b>     | 11,15 23:2 68:2      |
| 60:5,6 61:22 62:8,16 | 15:1                 | 19:24 56:12,13,14    | 69:17,20,23 70:2,4,  |
| 65:14 66:11,14,17,   | <b>spent</b>         | <b>suggests</b>      | 7,12,14,16,17,18,20, |
| 25 67:24 68:4,17,20  | 15:5                 | 43:13 44:15 48:8     | 22,23,25             |
| 71:16 73:14 76:3     | <b>split</b>         | <b>Suite</b>         | <b>tablets</b>       |
| 78:3,13 79:2,18      | 29:18                | 5:15                 | 57:18 81:10          |
| 80:17,22 81:10,20    | <b>square</b>        | <b>suites</b>        | <b>takes</b>         |
| 83:1 84:5 92:25      | 89:3 90:14           | 14:11                | 18:3,6               |
| <b>skill's</b>       | <b>standard</b>      | <b>summary</b>       | <b>talk</b>          |
| 28:20                | 93:8,13              | 19:13                | 15:20 30:20 45:25    |
| <b>skills</b>        | <b>standards</b>     | <b>super</b>         | 53:25 55:19          |
| 47:23                | 11:25 71:9           | 76:12                | <b>talking</b>       |
| <b>slash</b>         | <b>stands</b>        | <b>supplied</b>      | 19:18 20:8 28:3      |
| 86:25                | 12:3                 | 12:19 32:4,22 40:9   | 30:21,23 41:19       |
| <b>software</b>      | <b>started</b>       | <b>supplier</b>      | 53:17 54:20 57:16    |
| 12:10 21:21 22:13,   | 15:10                | 39:20 40:9           | 63:13 76:2 91:6      |
| 15,18 30:18,23 31:3, | <b>starting</b>      | <b>supply</b>        | <b>talks</b>         |
| 10 49:4,6 82:15      | 14:2                 | 32:4 82:24           | 43:15 57:13 73:5,7   |
| 92:21                |                      |                      | 76:11 81:18          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>taught</b><br/>20:18,22 22:23 23:9<br/>24:8 79:8,9</p> <p><b>teach</b><br/>18:4 55:8 73:25<br/>83:23</p> <p><b>teaches</b><br/>23:16,17 31:2,9<br/>42:25 44:3 78:4,12,<br/>25</p> <p><b>teaching</b><br/>50:19 71:4</p> <p><b>teachings</b><br/>44:23 55:3,13 59:24<br/>62:8,23 68:6 77:15<br/>83:12</p> <p><b>technologies</b><br/>47:10 76:13,14</p> <p><b>technology</b><br/>22:7 65:4 81:5,14</p> <p><b>term</b><br/>86:15 87:15,23<br/>93:20</p> <p><b>terms</b><br/>88:15 91:10,25</p> <p><b>test</b><br/>14:11</p> <p><b>tested</b><br/>12:5</p> <p><b>testified</b><br/>5:7</p> <p><b>testify</b><br/>6:16</p> <p><b>testifying</b><br/>11:2</p> <p><b>testimony</b><br/>9:17 10:5,8,22 11:5,<br/>9,11</p> <p><b>text</b><br/>26:3</p> <p><b>thing</b><br/>6:6,10 14:12 87:7<br/>93:5 94:4,23</p> <p><b>things</b><br/>14:11 16:15 24:8,12,<br/>21 38:7,8 39:17,18<br/>43:17 45:5,10 51:1<br/>59:4 76:11 84:2</p> <p><b>thought</b><br/>95:15</p> <p><b>thousands</b><br/>43:15 66:7 81:18</p> | <p><b>thumb</b><br/>45:2</p> <p><b>time</b><br/>5:23 6:5,21 9:9<br/>10:18 11:13 12:14,<br/>18 14:23 15:2,22<br/>17:7 18:8 21:20<br/>24:19 25:17,18<br/>26:11,13,23 28:3,6<br/>32:4,6,17 37:16,22<br/>38:5 39:21,25 40:4<br/>41:20 43:19 52:13<br/>56:7 57:16 58:9 63:9<br/>64:25 65:3 66:10,15<br/>67:1 68:16,19,22<br/>71:18 73:15 75:4<br/>76:2 77:10 80:17,20<br/>82:6 90:13 95:6,8,21</p> <p><b>times</b><br/>5:19 11:1</p> <p><b>title</b><br/>29:7,11</p> <p><b>titles</b><br/>29:14</p> <p><b>today</b><br/>5:23 6:17,23</p> <p><b>top</b><br/>33:14 38:16 90:22</p> <p><b>touch</b><br/>69:4 74:1 84:3</p> <p><b>touching</b><br/>79:9</p> <p><b>touchpad</b><br/>43:3,7</p> <p><b>touchpads</b><br/>50:21 72:12</p> <p><b>touchscreen</b><br/>27:19,23 28:1,17<br/>38:1,23 39:14,21,24<br/>40:17,24 41:3,11<br/>42:2,18,21,23,24<br/>43:3,19,20 44:1,7,15<br/>48:7,14,25 50:1,7<br/>52:16 53:15,20,24<br/>54:3,5,9,18 55:25<br/>57:23,25 58:21,25<br/>59:3,5,17 62:5,14,17<br/>63:8 64:16,21 65:9<br/>66:4,13,20 67:20<br/>68:6,13,15,16,18<br/>71:5,17 72:16 73:3,<br/>6,10 75:24 76:5<br/>78:1,18,22 80:14,23,</p> | <p>25 81:6,15,21 82:14,<br/>20 83:5,14 84:4<br/>85:21</p> <p><b>touchscreens</b><br/>25:21 26:15,19,25<br/>27:2,6 28:5,11<br/>37:24,25 39:2 40:6,<br/>21 41:22 43:11<br/>44:19 50:20 57:8,17,<br/>21 63:2,18 64:12<br/>66:9 69:2 72:12<br/>77:22 78:13 80:19<br/>81:11 82:10</p> <p><b>trackball</b><br/>43:2,4</p> <p><b>trackballs</b><br/>40:6 41:21</p> <p><b>trackpads</b><br/>40:6 41:21</p> <p><b>trial</b><br/>9:18 10:9</p> <p><b>trials</b><br/>9:22</p> <p><b>true</b><br/>9:7 32:11 78:24<br/>92:11</p> <p><b>truthfully</b><br/>6:16</p> <p><b>turn</b><br/>7:24 8:7,21 9:14<br/>15:25 25:5 30:14<br/>33:18 35:13 74:3,13<br/>77:17 84:9 85:6 86:8<br/>88:1,24 89:25 90:10</p> <p><b>two-minute</b><br/>95:14</p> <p><b>type</b><br/>32:12 82:4 93:10</p> <p><b>types</b><br/>62:24</p> <p><b>typical</b><br/>38:14 59:5</p> <p><b>typically</b><br/>14:2 32:15 92:11<br/>93:15</p> <hr/> <p><b>U</b></p> <hr/> <p><b>U.S.</b><br/>56:25 61:8</p> <p><b>understand</b><br/>5:18,24 6:4 7:17<br/>16:17 17:21,25 18:6,</p> | <p>11 24:10 31:14,19<br/>41:19 43:17 48:10<br/>65:17,20,21 73:15<br/>78:4 79:2,19 81:10<br/>82:2 84:19 86:19</p> <p><b>understanding</b><br/>16:4,7,12 17:1 19:3,<br/>5,10 25:16 29:20<br/>34:17,23 61:21<br/>62:19 67:23</p> <p><b>understandings</b><br/>35:3</p> <p><b>understood</b><br/>6:3 18:20 23:19<br/>24:22 26:8 30:13<br/>43:1 48:3 54:3,8<br/>55:24 57:22 65:14<br/>66:11,18 76:3 80:18,<br/>22</p> <p><b>undue</b><br/>53:12</p> <p><b>Unix</b><br/>74:20</p> <p><b>upper</b><br/>89:19</p> <p><b>upside-down</b><br/>92:10,15 93:3,11</p> <p><b>usage</b><br/>24:9</p> <p><b>user</b><br/>23:14 32:6 33:12<br/>34:12 35:4,21 37:3<br/>38:2,14,24 39:4 48:1<br/>59:5 73:7,13,16,19<br/>74:1 79:6 82:11<br/>86:24 92:4,7</p> <hr/> <p><b>V</b></p> <hr/> <p><b>validate</b><br/>53:4</p> <p><b>variety</b><br/>21:6 26:13,14,24</p> <p><b>version</b><br/>6:21</p> <p><b>versions</b><br/>13:1,11,18 20:25<br/>23:2 49:8 57:6 58:9<br/>61:14</p> <p><b>versus</b><br/>93:12</p> <p><b>vertical</b><br/>93:15</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**VGA**

76:11,12

**video**

12:18,19

**view**

51:14,18 61:21

**vis-a-vis**

92:14

---

**W**

---

**W-O-L-F-E**

5:14

**wait**

20:4

**wanted**

12:24 40:2

**ways**

19:16 65:21

**whatnot**

13:10

**WHQL**

12:2

**wide**

26:13,14,24 52:11

77:15

**widely**

45:8

**Windows**

12:3,7,12 13:1,5,6,  
11,14,18 14:21  
21:10,15,19,20,23  
22:2,9,11,15,23  
23:9,23 24:15,18,25  
25:10,21,25 26:1,19,  
23 27:5,22 28:2,4,11  
29:8,12 31:16 32:2,  
9,16,18 33:24 34:14  
35:6 37:5 39:10  
41:12 42:3,14 43:10,  
21 44:18 45:7 46:9  
49:1,7 50:1 52:10,  
15,23 55:8,16 57:3,  
6,9,11 58:3,8,9,11,  
18,24 59:17 61:12,  
15,16,18,24 62:1,12,  
21 63:3,10,19,24  
64:11 65:12 66:3,8,  
12,19 68:11 74:23  
75:3,20,24 76:5,14,  
15,21,25 77:1,6,7,9,  
10,12 79:12,20,24  
81:13,25 82:9,20

**wolfe**

5:4,11,14 7:6,20

28:22 52:2 56:16

60:18 69:6 86:8

95:21

**word**

18:5 42:18,20 44:6,8

54:24 81:6,8,15,17

**words**

62:4 93:3

**work**

11:17 12:22,23

31:11,16 32:9 41:12,

17 42:3 48:4,7,25

50:1

**worked**

10:6,12,18 13:12

26:1 39:25

**working**

11:18

**works**

28:21 62:19 79:16

**world**

12:16 24:19 46:17

**wrong**

83:17

---

**X**

---

**XP**

13:14 20:17,22,24  
21:6,10,19,20 22:1,  
6,11,12,23 23:2,6,9,  
12,20,23 24:15,25  
25:10,21 26:19,23  
27:5,22 28:2,11  
29:8,12 31:16 32:2,9  
33:24 34:14 35:6  
37:5 39:10,18 40:2  
41:12 42:3,4 43:10,  
21 44:18 45:7 46:9,  
22 49:1,7 50:2  
52:10,15,23 53:11  
55:8,16 57:3,9,11,14  
58:3,8,11,18,24  
59:2,17 61:12,16,18,  
24 62:1,12,21 63:3,  
10,19,24 64:11  
65:12 66:4,8,12,19  
68:11 74:23 75:3,20,  
24 76:5,15 79:12,20,  
24 81:25 82:9,20

---

**Y**

---

**years**

11:3 28:5 57:17,21

**Yesterday**

15:24