

AFFIDAVIT OF NATHANIEL E FRANK-WHITE

1. I am a Records Request Processor at the Internet Archive. I make this declaration of my own personal knowledge.
2. The Internet Archive is a website that provides access to a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, we provide free access to researchers, historians, scholars, and the general public. The Internet Archive has partnered with and receives support from various institutions, including the Library of Congress.
3. The Internet Archive has created a service known as the Wayback Machine. The Wayback Machine makes it possible to browse more than 450 billion pages stored in the Internet Archive's web archive. Visitors to the Wayback Machine can search archives by URL (i.e., a website address). If archived records for a URL are available, the visitor will be presented with a display of available dates. The visitor may select one of those dates, and begin browsing an archived version of the Web. Links on archived files in the Wayback Machine point to other archived files (whether HTML pages or other file types), if any are found for the URL indicated by a given link. For instance, the Wayback Machine is designed such that when a visitor clicks on a hyperlink on an archived page that points to another URL, the visitor will be served the archived file found for the hyperlink's URL with the closest available date to the initial file containing the hyperlink.
4. The archived data made viewable and browsable by the Wayback Machine is obtained by use of web archiving software that automatically stores copies of files available via the Internet, each file preserved as it existed at a particular point in time.
5. The Internet Archive assigns a URL on its site to the archived files in the format `http://web.archive.org/web/[Year in yyyy][Month in mm][Day in dd][Time code in hh:mm:ss]/[Archived URL]` aka an "extended URL". Thus, the extended URL `http://web.archive.org/web/19970126045828/http://www.archive.org/` would be the URL for the record of the Internet Archive home page HTML file (`http://www.archive.org/`) archived on January 26, 1997 at 4:58 a.m. and 28 seconds (1997/01/26 at 04:58:28). The date indicated by an extended URL applies to a preserved instance of a file for a given URL, but not necessarily to any other files linked therein. Thus, in the case of a page constituted by a primary HTML file and other separate files (e.g., files with images, audio, multimedia, design elements, or other embedded content) linked within that primary HTML file, the primary HTML file and the other files will each have their own respective extended URLs and may not have been archived on the same dates.
6. Attached hereto as Exhibit A are true and accurate copies of browser screenshots of the Internet Archive's records of the archived files for the URLs and the dates specified in the attached coversheet of each printout.

Tableau EX1033
IPR2024-01388
U.S. Patent No. 9,712,595



7. I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

DATE: 08/16/2024

Please see attached
All Purpose
Jurat form
for additional
Notary Events

Nathaniel Frank-White

Nathaniel E Frank-White



JURAT ATTACHMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF Texas }

COUNTY OF Harris }

The foregoing instrument was subscribed and sworn before me this date of
08/16/2024, by Nathaniel Frank-White

This notarial act was an online notarization.



Notary's Signature Ana Laura Salazar Uribe

Registration No.: 131757026

Commission Expiration Date: October 11, 2026



EXHIBIT A

<https://web.archive.org/web/20080802064135/http://ftp.qliktech.com:80/qvwebdownloads/>

QlikView Downloads

[Download the latest QlikView here](#)

This download is a Self-Extracting archive containing the same installation package distributed on the CDs
Use this download if you only need to install the QlikView product and you don't need any of the extra files located on the CD

[Documentation](#) [Full CDs \(iso and zip files\)](#) [Tutorial \(zip files\)](#) [QlikView Compiled HTML help](#)

<https://web.archive.org/web/20070108140845/http://thewinepress2.qliktech.com/en/Analysis.asp>

REFINE YOUR TASTE - QLIKVIEW.SIMPLIFYING DATA FOR EVERYONE. LEARN MORE >> | TELL A FRIEND >> | FEEDBACK >>

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INTRODUCTION | HOW TO | WINE SELECTOR | ANALYSIS

Analysis

Wine Overview by Criteria - what you want to know about the wine you drink.

Back | Fwd | Clear Selections

Select Value

...

Select Price

...

Select Rating

...

Select Wine Vintage

Loading...

Select Country

Loading...

Select Flavor Options

Loading...

Select Varietal

Loading...

Select Color

Loading...

Select Food Pairing

Loading...

Select Year

Loading...

Wine Value vs. Taste Rating Analysis, by Varietal or Country

Print

Loading. Please wait...

Country Wine Production by Varietal or Color

Print

Loading. Please wait...

Compare Value, Price and Rating by Varietal

Print

Loading. Please wait...

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WINE SELECTOR

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Wine Selector

Find Your Perfect Wine for a gift, for a party, or just for dinner.

Back

Fwd

Clear Selections

<div>Select Value</div> <div>...</div>	<div>Select Price</div> <div>...</div>	<div>Select Rating</div> <div>...</div>	<div>Select Color</div> <div>Loading...</div>	<div>Select Food Pairing</div> <div>Loading...</div>	<div>Wine Sorted by Flavor</div> <div>Print</div> <div>Loading...</div>
<div>Select Wine Vintage</div> <div>Loading...</div>					
<div>Select Country</div> <div>Loading...</div>			<div>Select Year</div> <div>Loading...</div>		
<div>Select Flavor Options</div> <div>Loading...</div>					
<div>Select Varietal</div> <div>Loading...</div>					
					<div>Similar</div> <div>Click to find other wines with this flavor characteristic.</div>
					<div>Wine Selection Based on Criteria</div> <div>Print</div> <div>Loading...</div>

Need help using the Wine Selector? [Click here](#)

<https://web.archive.org/web/20070108145241/http://thewinepress2.qliktech.com/en/HowTo.asp>

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INTRODUCTION

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How To

Click on the Wine Selector or Analysis buttons to begin. Your selections from one page will carry through to the next.

To make selections

To make a selection click on the data value you want to know more about. The selected data will turn green. Values compatible with the selection are white and unrelated values are gray. To select more than one item in the same listbox, hold the CTRL key down while selecting additional values.

For example, are you looking for a gift or the perfect wine for dinner? Lets select "white wine" in the "Select Color" list box to the right, and also select "Excellent" in the "Select Value" list box. In the "Select Flavor Options" object, type "citrus" next to the word "find" and press "find". In the "Wine Selection Based on Criteria", you can see that your best selections are:

Herman J. Wiemer Chardonnay, 1999

Antonio Esteves Ferreira Soalheiro Alvarinho, 2002

Step Back/Forward, Clear Selections, or Lock & Unlock

To undo, redo, or clear your selections, click on the "Back", "Forward", or "Clear Selections" button in the left corner of the page.

Suppose we have changed our mind, and want a fruit flavor instead of a citrus flavor. Click the "back" button, and now type "fruit" next to "find" in the "select flavor options" object.

Cycles

If available, click on a cycle button in a chart to view the data in a different way.

To Navigate Between Pages

To move between pages click on the tab at the top. Your selections will carry through from page to page.

Become an expert

Visit the [QlikView Competence Center](#) for tutorials, demo applications, videos and technical reference.

Try it with these examples

Select Value

Loading...

Select Flavor Options

Loading...

Select Color

Loading...

Back

Fwd

Clear Selections

Wine Selection Based on Criteria

Loading...

INTRODUCTION

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Introduction

Welcome to QlikTech's WinePress. Much like a wine press turns the raw grapes and juice into the wines that we love, so does QlikView turn raw, messy data into meaningful business knowledge. It does so in a manner as simple, effective, and efficient as a wine press.

Wine makers use a press to extract juice from a raw material, grapes, because it is such an efficient method to process large amounts of grapes. From this press comes the end result: a large quantity of very usable juice that will then become wine. Without the wine press, the process by which juice is extracted from grapes would be long, arduous and messy.

Similarly, we at QlikTech developed QlikView to help you, the user, take raw bits of information that can be fed through QlikView to make a useful end result; useable, meaningful data.

What can The Wine Press do for you:

- Try a new wine- Pick a specific wine that you like and hit the "similar" button. This will show other wines you might also like based on similar characteristics
- Find a gift- Choose a wine gift or what wine you would like to bring to a holiday party based on different characteristics or the meal to be served
- Pair your food and wine- Choose the best wine to go with your meal based on its flavors or based on other characteristics
- Analyze your wine- Analyze wine by variety, region, price, flavor, and rating
- Find out what makes The Wine Press unique- Select a wine and see what flavors it embodies

<https://web.archive.org/web/20080626195546/http://www.qlikcommunity.com/1213/>



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QlikNews: AmericasView

QlikView in North, South and Central America

Greetings to all of our customers and partners in the Americas! It is with great pleasure to take this opportunity to formally introduce myself as president of QlikTech's Americas region. In my short tenure at QlikTech, I have already had the opportunity to meet many of you at Qconnections in Miami. To witness such a passionate group of business intelligence enthusiasts was truly a gratifying experience.

Today there are more than 40,000 QlikView users in over 1,000 organizations in the Americas region. Clearly this is a unique and rapidly growing community. Your prudent recognition of this new approach to BI, and your innovation and imagination using QlikView, all have helped to make QlikView what it is today. As president of the Americas region, my goals are to expand and shape the organization in a manner that will enhance the support you need for even greater success with QlikView in your respective businesses.

Over the coming months, I shall look forward to personally meeting with as many customers and partners as possible, as well as communicate to the region here in future issues of QlikNews. Thank you for your warm welcome at Qconnections and your contributions to our QlikCommunity.

Best,
Bob Langer
President, Americas

Customer Spotlight: Global Leader in Pharmaceuticals

QlikView's speed, usability and scalability project an annual ROI of \$1.2 million

To improve competitiveness in a changing and increasingly complex market environment, pharmaceutical companies must increase visibility into physician influencers and operational processes—for faster decision making, more effective sales and marketing programs, shorter time to market with new products, and easier regulatory compliance. Those are among the reasons why the world's largest research-based biomedical and pharmaceutical company recently licensed QlikView to gain the advantages of analytical speed and scalability that could not be attained with its traditional BI solution.

One example is "e-detailing," which is direct-to-physician marketing that allows physicians to go online to view product information, ask questions, and order product samples at their convenience. E-detailing helps pharmaceutical companies to develop, retain and optimize relationships with physicians by analyzing physician feedback and web metrics with other market data, and continually refining physician targeting and segmentation.

Need for Speed

With traditional BI, the cycle of posting new information on an e-detailing website, collecting responses, performing analysis, and adjusting marketing campaigns took six months. Using QlikView, the customer now does the job in six to eight-week cycles.

Need for Detail

Physician detailing takes a deep dive into individual business relationships to answer questions such as: What sales reps visited this physician and when? Which of our products and competitive products did the physician prescribe and how often? With traditional BI, answers were beyond the customer's aggregated data sets. The "needle in a haystack" answers to queries required access to data from multiple systems without pre-programmed paths. According to the customer, QlikView's in-memory associative analysis was the only viable technology for more effective e-detailing. The customer can put together scripts by type—doctor, sales rep, product, region, etc.—and search data accordingly without having to know how sourcing systems work or even know all questions to ask. Since QlikView works the mind works, end users can access and drill down into data "the natural way" and follow thought paths to wherever they may lead.

Need for Scalability

The customer now uses QlikView to aggregate and analyze millions of rows of data on the fly—a huge improvement over traditional BI which took five days for data aggregation alone. QlikView applications initially started tracking individual physicians and physicians groups of 300, then 800, 3,000 and currently 4,000 physician groups, which are



[QlikNews Issue 3: Fall 2007](#)

[Customer Interview: "5 Questions with...3M" Mike Methven of 3Ms Information...](#)

[Read more](#)

numbers that traditional BI could not support. Plans for sales applications are to push 3.2 billion records through QlikView to an end user community of 2,000 sales reps. Return on investment is projected at \$1.2 million annually.

Partner Spotlight: HighPoint Solutions

Building High-End Enterprise Solutions with QlikView

[HighPoint Solutions](#), a QlikTech Sell and Deploy partner, is a premier provider of specialized IT services with vertically focused solutions for Pharmaceutical, Healthcare, Financial Services and Retail companies. With offices in Philadelphia, New Jersey, Chicago, Raleigh, Los Angeles, and India, the company's team of 300 consultants is strategically located to deliver business value and competitive advantage to clients through a laser focus on key industries, partners and technologies.

HighPoint enjoys a high profile within QlikTech these days after winning and successfully implementing a major QlikView account with one of the world's largest pharmaceutical companies (Customer Spotlight above). Among challenges were needs to provide flexible intelligence and analytics involving 1,500 to 2,000 users (potentially thousands more); a complex, multi-tier sales hierarchy; and up to 3.2 billion rows of data. The customer's tradition BI solution, with major scalability challenges and technical limitations, could no longer support the customer's expanding business needs.

HighPoint won the account using the "Seeing is Believing" proof of concept approach, which demonstrated to the customer's decision-makers how QlikView in-memory analysis was the only viable solution to achieve their objectives. Part of the solution involves HighPoint's innovative ways to group and expediently refresh massive data sets in QlikView.

Having now successfully implemented QlikView to fulfill the customer's immediate analysis need, HighPoint is positioned to work with the customer on a number of future, potential capabilities that the QlikView platform offers, such as: interactive data mining on massive data sets, migrating and consolidating other complex applications to QlikView (which will drive cost out of the customer's BI applications ecosystem), and integrating QlikView with the customer's sales force automation solution.

Congratulations to HighPoint Solutions on their success with QlikView and the business and technical expertise to deliver compelling, industry-specific, high-end capabilities.

Events in the Americas

Visit us at one of these upcoming industry events, where we proudly showcase QlikView and our customers' success.

[Quest Northeast Conference](#)

July 16-18, 2008
MGM at Foxwoods
Ledyard, CT

[NACUBO 2008](#)

July 12 – 15
Hilton Chicago
Chicago, IL

[IT Leaders Forum](#)

July 20-23, 2008
The Inverness
Denver, CO

[Midsize Enterprise Summit East](#)

September 14 - 17
Gaylord Texan Resort
Dallas, TX

[APICS International](#)

September 14 - 16
Kansas City Convention Center
Kansas City, MO

QlikView Training

Just released is the 2008 summer schedule that includes a new training site located in Atlanta, GA. During the month of June we are offering a **10% discount** to customers who register three or more students for a course.

Get trained NOW on QlikView and gain a higher level of visibility into your business with rapid deployment of new applications for business analysis.

We offer two, four or five day courses that will give you hands on experience with QlikView. Depending on the course that you take you will learn how to:

- Create a flexible end user interface
- Get snapshots of data relations
- Make presentations based on your data
- Create dynamic graphical charts and tables
- Perform statistical analysis
- Link descriptions and multimedia to your data
- Create new tables, merging information from several sources
- Build your own business intelligence system
- Deploy QlikView applications for complex business functions

Schedule at a Glance

Radnor, PA: June 9 – 13, 2008

Raleigh, NC: June 19 – 23, 2008

Salt Lake City, UT: June 23 – 27, 2008

Atlanta, GA: June 23 – 27, 2008

Click [here](#) for more details on location, date and times or email us at ustraining@qliktech.com with any questions about QlikView training.

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QlikNews: ProductView

QlikView 8.5 Preview

Below is a quick overview of expanded capabilities and benefits with QlikView 8.5, to be released June 30. For deeper insight into the more than 85 new features packed into QlikView 8.5, contact your QlikView sales representative.

Enterprise Deployment/Integration

QlikView 8.5 provides a more holistic view of enterprise deployments, simplifies management tasks and integration with third party software, including J2EE server applications. External applications can control and update QlikView Server deployment and applications can be monitored with third-party tools. IT administrators can track and assess utilization history of QlikView Publisher and Server for system optimization.

Mass Deployment Clients

QlikView 8.5 enables simple, secure deployment of large numbers of QlikView documents to large numbers of users. Emphasis is on putting personalized analysis into the hands of the right user at the right time. Numerous feature enhancements for AJAX and Java clients improve performance parity across client types, providing near C++ levels of interactivity and capabilities to deploy QlikView to large numbers of users in seconds. This includes simplified QlikView deployment in Java environments such as Linux and Sun Solaris, and rich mashups for visual integrations with common web services like Google maps and Microsoft Virtual Earth.

End-User Experience

QlikView 8.5 extends focus on making analysis useful, beautiful and providing users with data views that they want to use. End users can show live QlikView objects in office applications such as PowerPoint, Word and Excel. In our continuing drive for new innovation, we introduce Set Analysis, which is a next generation of QlikView in-memory associative technology, in 8.5. Set Analysis enables users to compare two or more selected states at once, "lock" or "chase" selected states for comparison, show multiple states without coding into load script, and extend the power of QlikView bookmarks. Additional features make it much easier to resolve hierarchies in data structures such as product hierarchies and organizational structures. QlikView is more beautiful than ever to see and use!

Simplified Licensing

With QlikView 8.5, we've made licensing easier to understand for customers in an effort to provide more analysis power to more end users and fully utilize next-generation hardware platforms. The product distinction between 32- and 64-bit QlikView and QlikView server has been removed. All QlikView users now have the choice to use the full power of 64-bit QlikView. In addition, QlikView 8.5 will allow server object creation ("server collaboration") from QlikView Analyzer instead of requiring QlikView Professional. The overriding benefit is that it will be easier than ever to Simplify Analysis for Everyone in your organization.

QlikView Tips & Tricks

Here are more tips and tricks to make your day-to-day QlikView usage even simpler. Enjoy!

Do the equivalent of "In" in QlikView script using "match"

Want something simpler than stringing together a lot of "if Type=" code?

- What won't work is: Sum(if(Type in ('A','B','C','D'),Qty))
- What WILL work is: Sum(if(match(Type,'A','B','C','D'),Qty))
- If you want "not in" then just change to: Sum(if(not match(Type,'A','B','C','D'),Qty))

Again, this is simpler than stringing together lots of 'if Type='A' or Type='B' or Type='C' etc.

Want to split objects from QlikView multi-value fields?

Use 'subfield' to transform:



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ID	Object
1	AB, BC, CD
2	AB, CD, EF

Into:

ID	ObjectSplit
1	AB
1	BC
1	CD
2	AB
2	CD
2	EF

Load ID: subfield(Object,',') as ObjectSplit FROM / SQL / RESIDENT

Conduct advanced search in list boxes and multi-boxes

Just press = with a list box or multi-box selected to do advanced searches, for example:

=sum(Sales)>500000

Improve security of sensitive data with QlikView's Scramble Function

If you ever need to send sensitive data, QlikView offers a built-in scramble function. QlikView scrambling will make the data impossible to read. The only way to retrieve the data is to reload it into the document. To scramble data:

1. Open QlikView Developer
2. Open the document and go to Settings » Document Properties » Scrambling Tab
3. Select the fields that are sensitive and press Scramble

*Please note that fields containing large numbers of data can take time to scramble.

Copy formatting with QlikView's Format Painter

QlikView's Format Painter button makes it possible to copy formatting from one sheet object to another or to many sheet objects. In order to copy formatting to a single object:

1. Click on the source object
2. Single-click on the format painter button
3. Click on the target object

In order to copy formatting to multiple objects:

1. Click on the source object
2. Double-click on the Format Painter button
3. Click on each of the target objects

*Stop the copying by again clicking on the Format Painter button or by pressing ESC

When you copy formatting between sheet objects of different types or when you click on the caption of the target object(s), only border and caption properties will be copied. When you copy between sheet objects of the same type, additional properties specific to the object type will be copied.

<https://web.archive.org/web/20090304004927/http://www.qlikcommunity.com/1203/>

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QlikNews: Issue 5, Summer 2008

Dear All,

It was extremely gratifying to see 500 QlikTech partners and customers participate in our recent Qconnections 2008 Global Partner Summit and Americas User Conference in South Miami Beach. The growth of Qconnections mirrors that of QlikView around the world, both in the quantity and quality of new, innovative business analysis being achieved. Qconnections highlights are included in this issue of QlikNews. Be sure to check the QlikNews "Region Views" for future QlikView events, "QlikTalks" and QlikCommunity networking opportunities near you.

In addition to Qconnections, the spring has been, to say the least, busy and exciting. QlikView was named the top BI solution in South Africa by an independent survey. We continued to expand our global presence, most recently in the Middle East through a partnership with ICS ME in Dubai. And we've put the finishing touches on the 85 new features packed into QlikView 8.5, which will be released on June 30. Enjoy reading these and other features in this issue of QlikNews.

Best,

Lars Björk

Highlights:

Intelligent Supply Chains: Seeking faster response to market conditions, manufacturers, distributors and retailers turn to QlikView for agile, information-driven, "demand pull" supply chains. [Qlik to continue](#)

Competing Globally: Using QlikView, manufacturers of mill products and industrial machinery are stepping up efforts to control soaring operating costs, identify new revenue streams, and transform to more agile business processes. [Qlik to continue](#)

Thinking "Fast Track" Enterprise Solution: Sandvik Materials Technology wanted a simple solution to analyze price waterfalls. QlikView delivered, but that was just the beginning as applications spread across multiple business functions in two Sandvik Group companies. [Qlik to continue](#)

QlikView News:

QlikView 8.5 Preview: Due for release on June 30, QlikView 8.5 features significant improvements in enterprise integration, mass deployment, end user experience, simplified licensing and more. [Qlik to continue](#)

QlikView Tips & Tricks: More tips and tricks to make your day-to-day QlikView usage even simpler. [Qlik to continue](#)

QlikTech News:

Qconnections 2008 Global Partner Summit Highlights: A week on "The Power of Simplicity" got off to robust start as more than 350 businesses that sell, deploy or embed QlikView in their products gathered in South Miami Beach. [Qlik to continue](#)

Qconnections 2008 Americas User Conference Highlights: Attention turned to QlikView users midweek as customers and many partners shared experiences, best practices, and innovative ideas for data-driven decision making. [Qlik to continue](#)

Customers and Partners Succeed with Qconnect: Qconnect continues to evolve into a world-class partner program that will maximize success for QlikTech partners and QlikView customers. [Qlik to continue](#)

Introducing GolfQuest—QlikTech's Free Course Finder: To help golf enthusiasts find the perfect courses to play, we developed a course analyzer powered by QlikView's interactive Ajax zero-footprint client to plan your next great golf getaway! [Qlik to continue](#)

RegionViews: Updates and features on QlikTech customers, partners, events and training in the [Americas](#), [Benelux](#), [DACH](#), [Nordics](#), [UK](#) and the rest of the [World](#).



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Support

Don't know where to start?



Product Support

If you are a customer or partner, please submit your product related question to customer support.



Reference Manuals

For general information about QlikView, QlikView Server, or QlikView Publisher.



Knowledge Base

For Articles, Bug Reports, Performance Release Announcements, or Tips & Tricks try the Knowledge Base.



FAQs

Have a question? Check out our FAQs and if your question isn't there, check out the [Forums](#).



New Feature Request

Have a suggestion? As a registered user, you can submit a suggestions to improve QlikView.

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- LEF Instructions

More Support

- [Whitepapers](#)
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[You can now enjoy a 30 min webinar featuring the highlights of QlikView 8. See...](#)

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