

DECLARATION 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 The visitor may select one of those dates, and begin browsing an archived version of the Web.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 For instance, the Wayback Machine is designed such that when a visitor clicks on a hyperlink on an archived page that points to another URL, the visitor will be served the archived file found for the hyperlink's URL with the closest available date to the initial file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 browseable 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 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.



7. Attached hereto as Exhibit B are true and accurate copies of the Internet Archive's records of the archived files for the URLs and the dates specified in the attached coversheet of each file.

8. I declare under penalty of perjury that the foregoing is true and correct.

DATE: January 11, 2023

Nathaniel E Frank-White

Nathaniel E Frank-White

EXHIBIT A

https://web.archive.org/web/20091030205210/http:/www.waze.com/wiki/index.php/User_Manual

INTERNET ARCHIVE Wayback Machine http://www.waze.com/wiki/index.php/User_Manual Go JUL OCT MAR 30 2008 2009 2011 About this capture
25 captures 15 Jul 2009 - 23 Mar 2021

User Manual

This Help file describes the waze touch screen version. There may be slight differences between the versions for different phones, but most features will look and work the same.

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Starting waze and creating an account

To open the program – press the waze icon on the phone desktop. **If you are a new user, you will get a welcome message and a request to accept waze's terms of use. Click the Accept button to continue to use waze, or the Decline button to exit the program.** If you have accepted the terms of use, you will next get a form to create your account.
You are asked to provide a username and password, an email address, and optionally to choose a waze nickname, which is used to identify you on the map and in reports you send, should you choose to be identified. (You define how far you want to be identified in your Profile – see the Settings section).



- Tap the first line of the form (Username). A virtual keyboard display will come up.
- Enter the username you'd like. Then tap the Next button to be prompted for the next line of the form (password).
- After you have proceeded to fill in all the form in this way, waze will display the filled-in form (your password will be displayed as five stars no matter how long it actually is).
- If the information is the way you want it, tap Create to create your account. If not, tap the line you want to change.

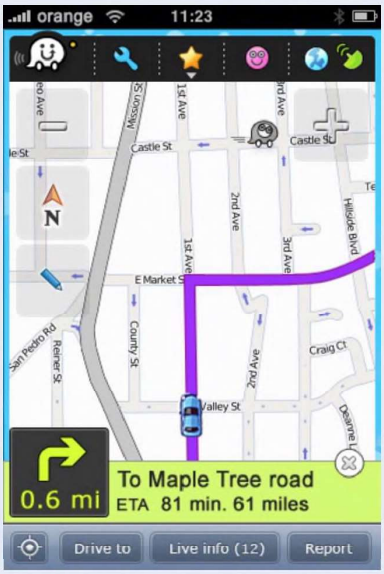
After creating your account you will be asked to sign in. You only have to do this once: your phone will thereafter be logged in automatically. You will only have to log in again if:

- The required user name is already taken.
- You are using the user name and password you created on a different phone, and you made a mistake when logging in. Then you'll get a "wrong login" message and will be returned to the screen displaying your username (and hidden password) so that you can change them as necessary. (Note: to change your username you should first log in to the waze.com site and change it there, then update your phone).
- Someone else using another phone is logged in to your account. In this case you will not get an error message; your internet connection will keep going on and off. (We suggest you avoid

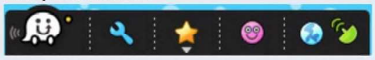
giving your login details to friends – they can create their own accounts.)

Once you have an account that you've previously logged in to, starting waze will bring you directly to the main screen. To save battery consumption, it's a good idea to close waze when you leave your car and to minimize it or shut off the display whenever you don't need it.

Overview: What do you See?



The Waze screen has the following main sections:

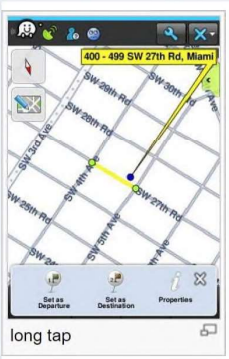
- **A top status bar**
  
- **the main screen** where the map is displayed
- **Map Controls** with 2 icons: zoom in / out buttons , a compass and a map edit icon
- **Text buttons** at the bottom of the screen for the four main waze functions:
  - Me on Map (displays where you are right now). On some versions, you will see only a bulls-eye icon with no text
  - Drive to (choose a location to start a route - enter address, search local businesses with Google or access your favorites and marked locations)
  - Live info (view live reports of events in your area). The number in parentheses represents the number of events in your area right now.
  - Report (enter your own reports and events)

Initially the main screen displays "me on map" - a map showing your location and an icon for your car on it. You can only see the map if you have full GPS connectivity. If you're in an area where GPS reception is partial, you will see a map with a big cursor displaying your approximate location (based on cell ID).
If you don't have any GPS reception at all, a map of your last known location will be displayed with no identifier of your current location.

The Main Screen

By default, the main screen displays the map of your area with your current location on it. You can change the map display in several ways:

- **Drag the screen** to move the map in the direction you drag it (you can also move the map using your phone's wheel/trackball/arrow buttons).
- **Tap the screen** (one short tap) to open the sidebar menu (described below) – allowing you to zoom in and out and to mark a location
- **Tap and hold** (a long tap) on a road or highway to highlight it and display a few options for interacting with it:



long tap

- **Set as departure** - use this location as the departure point for your route. If you haven't chosen this option and you request a route, your current location will be used as the departure point.
- **Set as destination** – this location is the destination point of your route. If you choose this option, you won't need to enter an address for your destination when requesting a route.
- **Properties** - lets you view more information about the road you've selected, such as its length, average speed, average time to drive it, the type of road (e.g. highway, city street), and its name and the name of the city it's in.
- You can return to the default display of your current location at any time by hitting the “x” and closing this menu.

The Map Controls

The Map Controls give you easy access to the functions you use most while you're driving. By default, the map controls are displayed on the map. You can change the setting so only a tap on the map will bring them up

To change the display of the map controls (always display / display on tap only), go to settings >> general and change the 'display map option'. </br>

The Compass Icon - lets you toggle between two possible map displays:

- The default display: the compass arrow swings as you drive, and the map rotates, so that you always see the map in the direction you're driving. The arrow always points to the north.
- Clicking this icon will change the display: the compass icon changes to an arrow and the letter N  . The map is fixed (North is always up) and does not rotate.

The zoom in **/ out**  **icons** - for zooming in and out on the map. On the iPhone you can also do this on the touch screen in the usual way.

The Edit Map icon  lets you update the map. Tap the map icon to display a menu of possible actions:

- **Record a New Road** - if the road you're driving on isn't on the map yet, you can add it to the map just by driving it. Select this option to start recording the route as you travel it; select again to turn recording off. (For best results, start recording from a point that's already on the map, e.g. where the new road intersects with a road already on the map) You will get a message that recording is now on (or off); press OK to confirm.
- **Update House Numbers** – the number of the house you are next to (or if you're moving, the house you were next to when you made the selection) is displayed with up/down arrows to change it. When the correct number is displayed, press OK.
- **Report map problem** – gives you a sub-menu for reporting the most common mistakes on the map.
  - Select the appropriate mistake
  - **Optional**: if you want to add any text, select "more details"
  - Press Send to send the report, or Cancel to exit the report

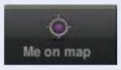
Map problem categories are:

- **Incorrect turn** - the map shows that you can make a turn at that point which in fact isn't allowed
- **Incorrect address** – the name of the street is incorrect
- **Incorrect route** – the navigation instructions here are incorrect
- **Missing Roundabout**
- **General Map Error** - here you'll usually want to use the virtual keyboard to key in the details before you press Send.After you press Send you get a message that the report was sent correctly.

The Command Buttons (bottom)

The buttons at the bottom of the screen give you access to all waze functions:

Me on Map



displays the map of your current location, with an icon representing your car  (you can change the icon for your car via the Settings > Profile menu). This is the default state of waze's main screen provided you have GPS connectivity in your current location (green or orange GPS icon on the status bar). Whenever the car icon isn't displayed, just press "Me on Map" to update the map to your current location. If you don't have a good enough GPS connection (grey GPS icon with an X on it), the "me on map" button isn't highlighted and you can't use it, because if you don't have a GPS connection, waze can't determine even an approximate location for you.

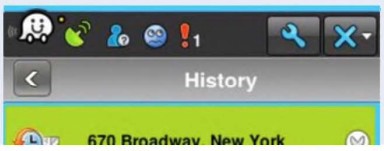
Search



to find the best route to a location, and to access locations you've searched for or saved in the past.

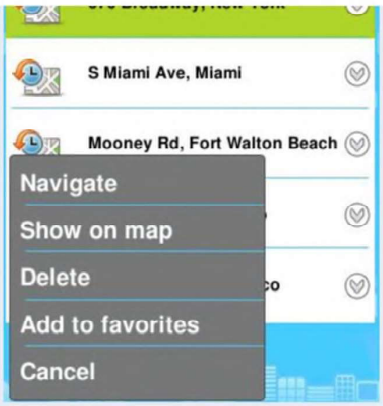
Pressing the Search button brings up a menu: Favorites; New Address; History; and Marked Locations:

- **Favorites** – press this to get a list of locations you've added to your Favorites in the past. Select one to calculate the best route to it from where you are now. If you selected a location, waze will calculate the route and return you to the map to start driving to it.
- **New Address** – pressing this brings up a virtual on-screen keyboard to type in the address.
  - Key in the address you want to drive to, or part of it. Press the ABC/123 key to switch the keyboard between upper-case, lower-case and numbers/punctuation. You don't have to enter a city: waze will search for a street matching that address near your current location, starting with the city you are in. If your destination is not close to you, you might want to add a city as well. You don't have to include a house number: if you don't, or if you include one that isn't yet on the map although the street itself is, waze will find the mid-point of the street.
  - Press the [search] button to search for that location. Waze will display a list of one or more possible locations.
    - **To calculate the best route to one of the displayed locations**, touch its name/address (text). Waze will find the route, and display the map together with the distance to destination and the expected time to drive there. You might get a message that waze has insufficient data to calculate the route. This doesn't mean that waze can't calculate any route, only that waze isn't sure it's been able to find the optimal route. In this case you have two options:
      - **Try Route** - to get navigation guidance for the route that waze knows.
      - **Teach waze** - if you yourself know the route, you can teach waze the best route just by driving it.
    - **To do anything else**, touch the arrow button next to the name. This brings up a menu where you can choose to:
      - **Navigate** – calculate the best route as above
      - **Show** location **on map** – waze displays the location (and you can zoom in and out) but does not calculate the best route to it.
      - **Add** this location **to favorites** - waze displays a virtual keyboard and asks you to key in a short name for this location (e.g. "home", "work", "school", "mall" and so on). Press Done to add the location to your Favorites with this name. You'll be returned to the main waze screen; next time you access your Favorites, that location will be there. Note that if you choose this option, the location won't appear on the Search History list because it has not been displayed on a map.
      - Cancel - to exit the menu without doing anything. In this case, the location won't appear on the Search History list.
- **History** - displays a list of the places you've searched for in the past and have displayed on a map (either by calculating a route to them or by choosing "display on map" after searching for them). Touch the name of a location to calculate



the best route to it, or the arrow button next to it to display the menu of what to do with it: the choices are, as before: Navigate; Show on map; Delete (from list); Add to favorites; Cancel.

- **Marked Locations** - displays a list of the places you've saved to your list of My Locations. As before, you touch the name of a location to calculate the best route to it, or the arrow button next to it to display the menu of what to do with it. This menu is the same as the menu for the History list.



Events



Simply by driving around with waze running on their smartphones, drivers share real-time information that waze translates into road and traffic conditions. You can also actively report to the community on traffic, accidents and incidents, speed cameras, police traps, blocked roads and more. These are called "events". This information about events is collected and analyzed in real time to provide all wazers with the optimal route to their destination at any given moment.

The Events button displays a menu, organized by type of event, of the real-time live reports by wazers about problems in your area:

- All  - gives you a list of all events reported in your area, listed by distance
- Police  - displays only reports of police cars/traps , listed by distance
- Traffic  - displays only reports of traffic loads in your area (light / moderate / heavy / standstill) listed by distance
- Accidents  - displays only reports of accidents in your area.
- Other  - any reports of events that aren't in one of the above 3 categories.

From the list of displayed events, you can:

- Touch an event to display its location on the map together with the full text of the report. To add your own comment to the report of this event (where allowed): touch the Comment button that appears under the text of the report. You'll get a virtual keyboard: type in your comment and press Done. Your comment will also be sent directly to the wazer who reported the event originally. If he or she replies, you'll get a message on your screen: "responding to you" with his or her reply.
- Touch the arrow beside an event to bring up a menu of possible actions:
  - **Display it on the map** (the same option as touching the report of the event rather than the arrow beside it)
  - **Report irrelevant** – if you're in that location and the event reported no longer exists there
  - **Add comment** – brings up the virtual keyboard; type in your comment and then press Done.
- **Sort by recency** - if you would rather see results by chronological order (latest first).



Report



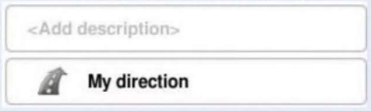
This is where you yourself report an event. Tapping the Report button displays a menu of several different types of events: reporting can be as simple as choosing the type of event and pressing Send. The event will be marked at the location you were in when

you chose the type of event.

The types are:

- **Police -** . Other users will see it pinned on the map with this icon
- **Traffic -** . On the map
- **Accident -** . On the map
- **Hazard -** . On the map
- **Speed Cam -** . On the map
- **Chit Chat -** . On the map
- **Available Parking -** . On the map

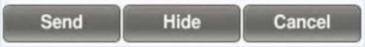
After choosing a type of event you get a screen were you can indicate:



- A text description of the event (disabled while car is moving)
- Whether it's on your side of the road (default) or the other side. Click once to change.
- A smiley to show how you feel about the event – happy , sad , mad , bored , and so on.
- A photo of the event – choose the "Add image" icon and your phone switches to camera mode; point and shoot, and the picture appears instead of the "Add image" icon



At the bottom of 'report event' page you will notice three options:



You can choose to 'hide' the event description. This will take you back to a map with a pin in it, representing where your report will be shown. To go back and approve the event, hit the small icon on the right side of the map.



When the report is the way you want it, choose Send; or to back out without sending it, choose Cancel. If you've input your Twitter account details and chosen to send your reports as tweets to your followers, the report will also appear as a status update in your Twitter account.

The Top Status Bar

The waze logo

click to see the about screen, including the version number.

GPS Connectivity: The satellite icon

shows you have GPS connectivity and its strength.

means you have good connectivity and your location is known.

means a low-power connection, until it improves only your rough location is known.

means your GPS connection is bad or non-existent, and your location is unknown. To improve it, try to give your phone a clear line of sight to the sky and wait a few minutes.

Mood icon

The smiley shows the mood you're in at the moment. If you've chosen to be visible to other wazers (green privacy icon), your mood is also displayed to them; and if you've chosen to tweet your reports to your Twitter followers, they'll see your current mood as part of the tweet. You can change it via the Settings > Profile menu. Current options are:

- you're happy – other wazers will see your avatar on the map as
- you're sad – and your avatar
- you're tired – and your avatar

- you're mad – and your avatar
- you're bored – and your avatar
- you're starving – and your avatar

More moods coming soon!!

Stars and points Ticker 

This icon, on the right-hand side of the main screen below the status bar, allows you to view the number of points you have accumulated and your current rank.

- To open the ticker, tap on the little green arrow and the ticker will slide out.
- To close the ticker – tap the green arrow again.

If you accumulate points while driving (by sending reports or driving on roads that are dotted), the green ticker will automatically slide out, and your new points will be shown under "gained points." The ticker will slide back in after a few seconds. If you don't want to display the points ticker icon on your screen, you turn it off (or on again) via Settings > General > 'Show points ticker' and choosing "on" or "off".

No Internet Connectivity icon

This only appears if your phone has no connection to the Internet. Note that you might see this icon when launching waze as it could take a few seconds for waze to connect. Without internet connectivity (active data), you'll be able to continue driving along routes that have already been downloaded to your phone; you will not be able to see reports or new sections of the map. For instance: if you've requested a "best route" and it's been downloaded to your phone, you can continue to drive along it, but if you decide to turn off from it along the way, you won't get that new section of the map without Internet connectivity.

The Live Reports icon

This is an exclamation point together with a small number representing the number of events that have been reported in your area. As long as you have Internet connectivity this number is constantly updated.

- To view details of these reports, tap the Events button at the bottom of the screen.
- If you've stopped, the reports will also be displayed in rotation on the main screen, on your map.

No Sound icon

You can choose whether you want to hear voice instructions on your route. When this option is "on", no icon is displayed on the status bar. When it's "off", you will see this icon of a speaker with an X on it. You turn it on or off via Settings > Navigation guidance.

The settings Button

Takes you to the settings screen where you can modify and personalize waze. See all settings in the next section of this guide.

The Power Button

This lets you set how waze runs and therefore how much power it's consuming. Tap it to display the available options. They are:

- **Resume manually** - minimize waze but keep it running in the background. To switch back to waze, click on the waze icon on your phone's desktop, and you'll be back in it right away.
- **Resume in 30 seconds** - Waze will be minimized for 30 seconds and then automatically come back up.
- **Exit** – turn off the application completely.
- **Cancel** – go back to Waze main screen without taking any of the above options.

Settings

The settings allow you to view and personalize your waze experience. Tap it to enter the Settings menu. Here you define:

Settings menu. Here you define:

- **Navigation guidance** (on/off) – whether you want voice instructions in addition to the map display when following a route
- **Display** – to display the map in either 2D (default) or 3D.
- **Light** – whether the screen lighting should be adjusted for day or night viewing. By default, the display will automatically switch to night mode when it gets dark. You can choose to keep this option manual by setting "automatic night mode" to Off from the General settings menu.

General Settings

This menu lets you set:

- The **backlighting** (on/off): by default it's "on", and the backlight will remain on as long as waze is running.
- **Speaker volume** - to choose the volume level for voice directions
- **Auto zoom** of maps (on/off) – by default it's "on", so the map will zoom in and out while you're navigating, based on the distance to your next decision point (e.g. place where you have to turn). You can disable this feature by selecting "off".
- Whether to display the **points ticker** ("on" to display it, "off" to hide it)
- **Automatic night mode** (on/off) – the default is "on": waze switches between day and night mode automatically. To disable this automatic switching, choose "off". You can still switch manually between day and night modes from the main Settings screen.
- The **measurement system** - you can choose to display distances in miles or in kilometers.

Profile Menu

- Displays your **account details**: username, five stars representing your password (no matter how long your password is) and nickname; and lets you change your nickname. **To change your username and password, first go to the waze.com site, log in, and make the changes, and only then update it on your phone.**
- Displays a **car icon**  which will represent your car on the map you see. You can choose from a large number of cars of different types and colors (more cars coming soon!!)
- Displays the icon for your **current mood** – you can change it to one of the others.
- **Twitter** – lets you choose whether to tweet your waze reports to your twitter followers; if you choose to do so, enter your Twitter username and password. Your current mood will be included in the tweet. You can disable and re-enable tweeting at any time without affecting your Twitter credentials.

Routing Menu

Here you tell waze how to calculate the optimal route for you. The options are:

- **Route preference** – you prefer the calculation to choose either the shortest route, or the fastest taking into account current event reports along that route. The default is "fastest".
- **Dirt roads** – you can choose to allow their inclusion in your route, to forbid it, or to allow short ones but avoid long ones where possible.
- **Minimize turns** (on/off) – if this is "on", waze calculates a route that will require you to turn from one street into another as few times as possible.
- **Avoid highways** (on/off) – the default is "off". If you prefer to spend as little time on highways as possible, choose "on". (It isn't always possible, of course, to avoid highways altogether, but waze will do its best, taking into account your other routing preferences).

Privacy Menu

This menu displays a screen headed "Display my location on mobile and web" with the options "when driving" and "when reporting". Waze always respects your privacy, and your location will never be shared against your will. This is where you define the degree of privacy you'd like:

- **When driving** - choose between:
  - **Anonymous**: your location is shown but not your identity (neither username nor nickname): you appear as an "anonymous user". This is the default. The top Status bar shows this by displaying your avatar in blue with a question mark on it.
  - **Nickname and avatar**: other wazers will see your location on the map, and your

avatar will display your current mood (as described regarding the Status bar avatar, above). If you've chosen this option, your status bar displays a green avatar.

- **Don't show me**: your location won't be shown at all – you're there but invisible, like a ghost! The top Status bar shows this displaying a ghost avatar.

- **When reporting -** choose between:
  - **Using my nickname**: your reports are identified by your nickname
  - **Anonymous**: your reports are sent anonymously, no information identifying their sender is displayed
- **About** - this displays information about the waze program, including which version you're currently running.

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This page has been accessed 2,413 times.

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https://web.archive.org/web/20091030203335/http://www.waze.com/wiki/index.php/Main_Page

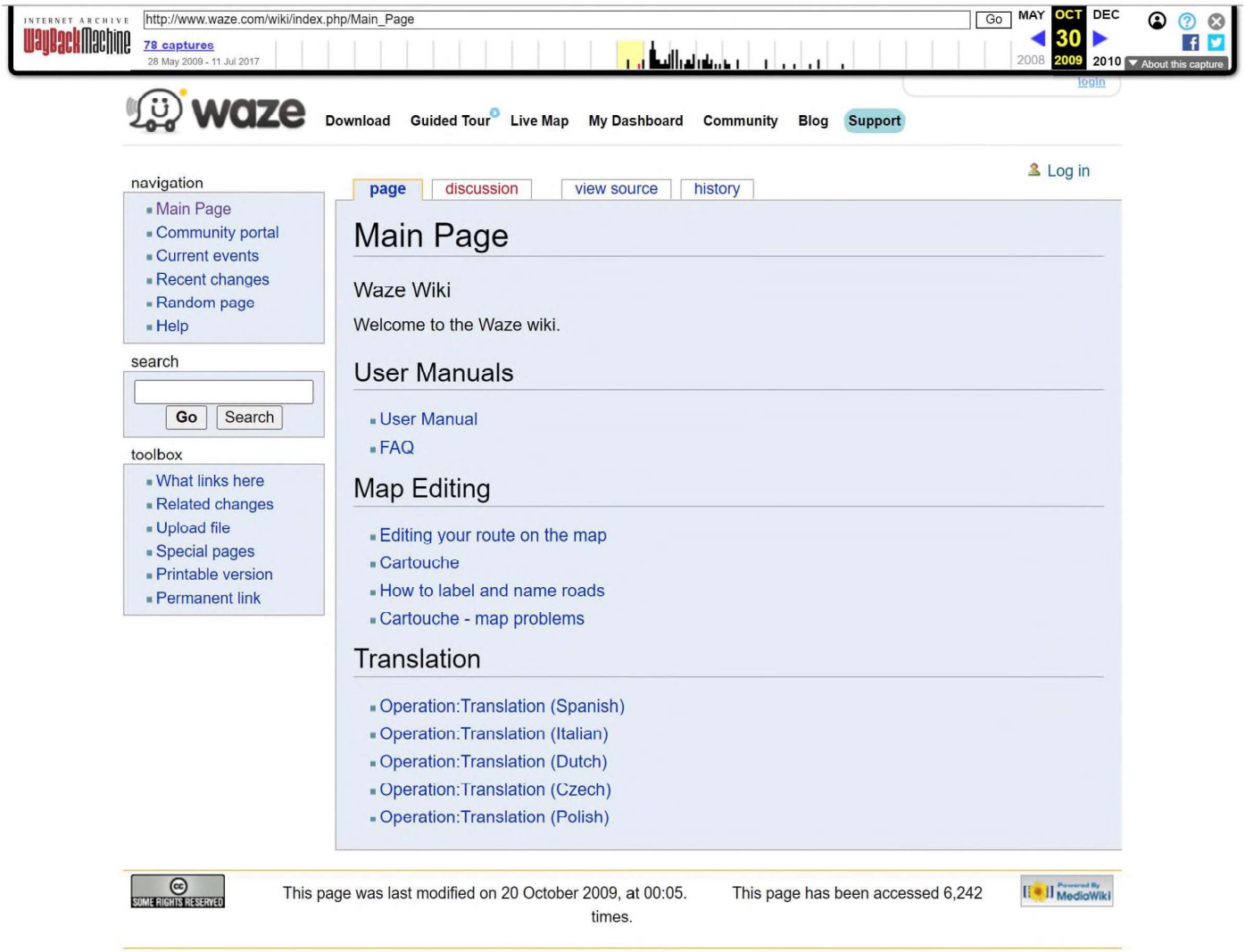

INTERNET ARCHIVE
WayBackMachine
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MAY OCT DEC
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28 May 2009 - 11 Jul 2017
About this capture
login
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Guided Tour
Live Map
My Dashboard
Community
Blog
Support
Log in
navigation
Main Page
Community portal
Current events
Recent changes
Random page
Help
search
Go
Search
toolbox
What links here
Related changes
Upload file
Special pages
Printable version
Permanent link
page
discussion
view source
history
Main Page
Waze Wiki
Welcome to the Waze wiki.
User Manuals
User Manual
FAQ
Map Editing
Editing your route on the map
Cartouche
How to label and name roads
Cartouche - map problems
Translation
Operation:Translation (Spanish)
Operation:Translation (Italian)
Operation:Translation (Dutch)
Operation:Translation (Czech)
Operation:Translation (Polish)
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iPhone
User Guide
For iPhone OS 3.1 Software

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Getting Started

1



WARNING: To avoid injury, read all operating instructions in this guide and safety information in the *iPhone Important Product Information Guide* at www.apple.com/support/manuals/iphone before using iPhone.

Viewing the User Guide on iPhone

The *iPhone User Guide,* optimized for viewing on iPhone, is available at help.apple.com/iphone.

View the guide on iPhone: In Safari, tap 🕮, then tap the *iPhone User Guide* bookmark.

Add an icon for the guide to the Home screen: When viewing the guide, tap +, then tap "Add to Home Screen."

The *iPhone User Guide* is available in many languages.

View the guide in a different language: Tap "Change Language" at the bottom of the screen on the main contents page, then choose the language you want.

What You Need

To use iPhone, you need:

- A wireless service plan with a carrier that provides iPhone service in your area
- A Mac or a PC with a USB 2.0 port and one of the following operating systems:
  - Mac OS X version 10.4.11 or later; version 10.5.7 or later is required for syncing Notes and for using iPhone as a modem
  - Windows XP Home or Professional with Service Pack 3 or later
  - Windows Vista Home Premium, Business, Enterprise, or Ultimate edition
- Display resolution on your computer set to 1024 x 768 or higher
- iTunes 8.2 or later, available at www.itunes.com/download (iTunes 9 or later required for certain features)
- QuickTime 7.6.2 or later (for playing videos recorded by iPhone 3GS on your computer)

- An iTunes Store account (for purchases from the iTunes Store or App Store)
- An Internet connection for your computer (broadband recommended)

Activating iPhone

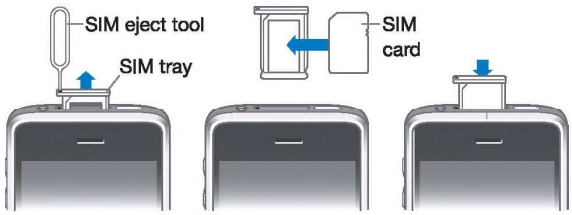
Before you can use any of iPhone's features, you must activate iPhone by signing up for a service plan with an iPhone service carrier in your area and registering iPhone with the network.

Your iPhone may have been activated at the time of purchase. If it isn't activated, contact your iPhone retailer or cellular service provider.

For more information about iPhone, go to www.apple.com/iphone.

Installing the SIM Card

If your SIM card was not preinstalled, you must install the SIM card before you can use iPhone.



Install the SIM card:

1. Insert the end of the SIM eject tool into the hole on the SIM tray.

   Press firmly and push it straight in until the tray pops out. If you don't have a SIM eject tool, you can use the end of a paper clip.

2. Pull out the SIM tray and place the SIM card in the tray.

   The angled corner of the SIM ensures that the card fits only the correct way in the tray.

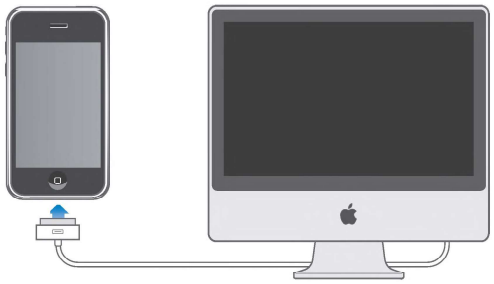
3. With the tray aligned as shown, carefully replace the SIM tray containing the SIM card in iPhone.

Registering iPhone

Registering iPhone with iTunes enables iTunes to identify your iPhone when it's connected to your computer and help you manage its contents. You can then sync information with your computer and media from iTunes, and create backups of iPhone's contents and settings. You can create an iTunes Store account, or specify an existing account, to enable purchases with iPhone. iTunes also records iPhone's serial number in the event you need it for service or in case of loss.

Register iPhone:

1. Download and install the latest version of iTunes from www.itunes.com/download.
2. Connect iPhone to a USB 2.0 port on your Mac or PC using the cable that came with iPhone.



3. Follow the onscreen instructions in iTunes to register iPhone and sync iPhone with your contacts, calendars, and bookmarks on your computer, and with music, video, and other content from your iTunes library.

   In the Set Up Your iPhone screen, select "Automatically sync contacts, calendars and bookmarks" to configure those items to sync automatically when you connect iPhone to your computer. You can also customize your sync settings in iTunes. See the following section.

Setting Up iPhone Using VoiceOver

If you're visually impaired, VoiceOver (available only on iPhone 3GS) can help you set up iPhone without a sighted assistant. VoiceOver describes aloud what appears on the screen, so you can use iPhone without seeing it. When you connect iPhone to your computer, iTunes detects whether you're using a compatible screen reader on your computer, such as VoiceOver on a Mac or GW Micro Window-Eyes on a PC, and automatically enables VoiceOver on iPhone. A sighted user can also enable VoiceOver on iPhone for you, using Accessibility settings. See "Using VoiceOver" on page 187.

Note: VoiceOver isn't available in all languages.

Syncing

With iPhone, you can have easy access to important information on your computer, including your contacts, calendars, and even your browser bookmarks, as well as to music, video, and other content in your iTunes library.

About Syncing

Syncing copies information and content between iPhone and your computer, keeping it current and up-to-date, whether you make changes on iPhone or on your computer.

iTunes lets you specify the information and content on your computer that you want to sync with iPhone. By default, iTunes syncs automatically with iPhone whenever you connect iPhone to your computer.

You can also set up iPhone to sync your MobileMe and Microsoft Exchange accounts, over the air. See "Mail, Contacts, and Calendar Accounts" on page 16.

Syncing with iTunes

You can set iTunes to sync any or all of the following:

- Contacts—names, phone numbers, addresses, email addresses, and more
- Calendars—appointments and events
- Email account settings
- Webpage bookmarks
- Notes (requires Mac OS X version 10.5.7 or later on a Mac, or Microsoft Outlook 2003 or 2007 on a PC)
- Ringtones
- Music and audiobooks
- Photos and videos (in your computer's photo application or folder)
- iTunes U collections
- Podcasts
- Movies, TV shows, and music videos
- Applications downloaded from the iTunes Store

You can adjust sync settings whenever iPhone is connected to your computer.

Ringtones, music, audiobooks, podcasts, iTunes U collections, videos, and applications can be synced from your iTunes library. If you don't already have content in iTunes, the iTunes Store (available in some countries) makes it easy to preview and download content to iTunes. You can also add music to your iTunes library from your CDs. To learn about iTunes and the iTunes Store, open iTunes and choose Help > iTunes Help.

Contacts, calendars, notes, and webpage bookmarks are synced with applications on your computer, as described in the following section. Contacts and calendars are synced both ways between your computer and iPhone. New entries or changes you make on iPhone are synced to your computer, and vice versa. Notes and webpage bookmarks are also synced both ways. Photos and videos (Mac only) can be synced from an application or from a folder.

Email account settings are synced only from your computer's email application to iPhone. This allows you to customize your email accounts on iPhone without affecting email account settings on your computer.

Note: You can also set up email accounts directly on iPhone. See "Mail, Contacts, and Calendar Accounts."

Purchases you make on iPhone in the iTunes Store or the App Store are synced back to your iTunes library. You can also purchase or download content and applications directly from the iTunes Store on your computer, and then sync them to iPhone.

You can set iPhone to sync with only a portion of what's on your computer. For example, you might want to sync only a group of contacts from your address book, or only unwatched video podcasts.

Important: You should be logged in to your own computer user account before connecting iPhone.

Set up iTunes syncing:

1. Connect iPhone to your computer, and open iTunes (if it doesn't open automatically).
2. In iTunes, select iPhone in the sidebar.
3. Configure the sync settings in each of the settings panes.

   See the following section for descriptions of the panes.
4. Click Apply in the lower-right corner of the screen.

   By default, "Automatically sync when this iPhone is connected" is selected.

iPhone Settings Panes in iTunes

The following sections provide an overview of each of the iPhone settings panes. For more information, open iTunes and choose Help > iTunes Help.



Summary Pane

Select "Automatically sync when this iPhone is connected" to have iTunes sync iPhone automatically whenever you connect it to your computer. Deselect this option if you want to sync only by clicking the Sync button in iTunes. For more information about preventing automatic syncing, see "Preventing Automatic Syncing" on page 15.

Select "Sync only checked songs and videos" if you want iTunes to skip unchecked items in your iTunes library when syncing.

Select "Manually manage music and videos" to turn off automatic syncing in the Music and Video settings panes. See "Manually Managing Content" on page 72.

Select "Encrypt iPhone backup" if you want to encrypt the information stored on your computer when iTunes makes a backup. Encrypted backups are indicated by a padlock icon, and a password is required to restore the information to iPhone. See "Backing Up iPhone" on page 202.

Click Configure Universal Access to turn on Accessibility features (available only on iPhone 3GS). See Chapter 25, "Accessibility," on page 182.

Info Pane

The Info pane lets you configure the sync settings for your contacts, calendars, email accounts, and web browser.

- Contacts

  Sync contacts with applications such as Mac OS X Address Book, Yahoo! Address Book, and Google Contacts on a Mac, or with Yahoo! Address Book, Google Contacts, Windows Address Book (Outlook Express), Windows Vista Contacts, or Microsoft Outlook 2003 or 2007 on a PC. (On a Mac, you can sync contacts with multiple applications. On a PC, you can sync contacts with only one application at a time.)

  If you sync with Yahoo! Address Book, you only need to click Configure to enter your new login information when you change your Yahoo! ID or password after you've set up syncing.

- Calendars

  Sync calendars from applications such as iCal on a Mac, or from Microsoft Outlook 2003 or 2007 on a PC. (On a Mac, you can sync calendars with multiple applications. On a PC, you can sync calendars with only one application at a time.)

- Mail Accounts

  Sync email account settings from Mail on a Mac, and from Microsoft Outlook 2003 or 2007 or Outlook Express on a PC. Account settings are transferred only from your computer to iPhone. Changes you make to an email account on iPhone don't affect the account on your computer.

  Note: The password for your Yahoo! email account isn't saved on your computer, so it can't be synced and must be entered on iPhone. In Settings, choose "Mail, Contacts, Calendars," tap your Yahoo! account, and enter the password.

- Web Browser

  You can sync bookmarks on iPhone with Safari on a Mac, or with Safari or Microsoft Internet Explorer on a PC.

- Notes

  Sync notes in the Notes application on iPhone with notes in Mail on a Mac or with Microsoft Outlook 2003 or 2007 on a PC. (On a Mac, you must have Mac OS version 10.5.7 or later installed to sync notes.)

- Advanced

  These options let you replace the information on iPhone with the information on your computer during the next sync.

Applications Pane
Use the Applications pane to specify which App Store applications to sync on iPhone, or to arrange your Home screen (requires iTunes 9 or later). Any applications downloaded directly to iPhone are automatically backed up to your iTunes library when you sync. If you manually delete an application on iPhone, you can reinstall it from this pane as long as it was previously synced.

Ringtones Pane
Use the Ringtones pane to select the ringtones you want to sync to iPhone.

Music, Movies, TV Shows, Podcasts, and iTunes U Panes
Use these panes to specify the media you want to sync. You can sync all music, movies, TV shows, podcasts, and iTunes U collections, or select the content you want on iPhone.

If you want to watch rented movies on iPhone, transfer them to iPhone using the Movies pane in iTunes.

If there's not enough room on iPhone for all the media you've specified, iTunes can create a special playlist and set it to sync with iPhone.

Note: The iTunes U pane appears only in iTunes 9 or later. In earlier versions of iTunes, iTunes U content appeared in the Podcasts pane.

Photos Pane
You can sync photos and videos (Mac only, iTunes 9 required) with iPhoto 4.0.3 or later, or Aperture on a Mac; or with Adobe Photoshop Elements 3.0 or later on a PC. You can also sync photos and videos in any folder on your computer that contains images.

Preventing Automatic Syncing

You can prevent iPhone from syncing automatically when you connect iPhone to a computer other than the one you usually sync with.

Turn off automatic syncing for iPhone: Connect iPhone to your computer. In iTunes, select iPhone in the sidebar, then click the Summary tab. Deselect "Automatically sync when this iPhone is connected." You can still sync by clicking the Sync button.

Prevent automatic syncing for all iPhones and iPods: In iTunes choose iTunes > Preferences (on a Mac) or Edit > Preferences (on a PC), click Devices, and select "Disable automatic syncing for all iPhones and iPods."

If this checkbox is selected, iPhone won't sync automatically, even if "Automatically sync when this iPhone is connected" is selected in the Summary pane.

Prevent automatic syncing one time, without changing settings: Open iTunes, connect iPhone to your computer, then press and hold Command-Option (on a Mac) or Shift-Control (on a PC) until you see iPhone appear in the sidebar.

Sync manually: In iTunes, select iPhone in the sidebar, then click Sync in the bottom-right corner of the window. Or, if you've changed any sync settings, click Apply.

Mail, Contacts, and Calendar Accounts

iPhone works with MobileMe, Microsoft Exchange, and many of the most popular email systems.

Setting Up Accounts

MobileMe and Microsoft Exchange provide not only email, but contact and calendar information that can be synced to iPhone automatically, over the air. MobileMe can also sync your bookmarks on iPhone with Safari on a Mac, or with Safari or Microsoft Internet Explorer on a PC. You set up MobileMe, Exchange, and other email accounts directly on iPhone.

iPhone uses the Exchange ActiveSync protocol to sync email, calendars, and contacts with the following versions of Microsoft Exchange:

- Exchange Server 2003 Service Pack 2
- Exchange Server 2007 Service Pack 1

For many popular email accounts, iPhone automatically enters most of the settings for you.

If you don't already have an email account, you can get a free account online at www.yahoo.com, www.google.com, or www.aol.com. You can also try MobileMe, free for 60 days. Go to www.me.com.

Set up an account on iPhone:

1. From the iPhone Home screen, tap Settings.
2. Tap "Mail, Contacts, Calendars," then tap Add Account.
3. Tap an account type:
   - Microsoft Exchange
   - MobileMe
   - Google email