# Must-Know Settings and New iOS 8 Features

PERKINS



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Dictation is much faster!!!

You can send text messages with audio of your recorded voice!

#### **General Settings**

• Siri is a voice activated personal assistant that helps you complete tasks on your iDevice. WHAT'S NEW:

- Hey, Siri! An option called Voice Activation now lives in the Siri Settings. When you enable this feature, the user has the ability to use Siri hands-free. It is only active when the iDevice is plugged in to a power source.
- Multitasking Gestures allows the user to implement multi-touch finger gestures to carry out specific iPad functions.
  - Five finger pinch on the screen while exit an app.
  - Four finger swipe up or double click the Home button to view the most recently used apps. They will appear across your screen---swipe up on the app to close it down or scroll across and select the desired app. This is extremely helpful for student who disabilities because i allows them to quickly access recently used app, instead of swiping pages or searching folders.
  - Four finger swipe across an app to revisit the last used app.
- Lock Rotation allows the user to lock the orientation of the iDevice screen so that it does not rotate. This can be helpful for students with Learning and Physical Disabilities and Visual Impairments.
- Auto-Lock will automatically put your iPad in sleep mode. This can be difficult for students with Physical Disabilities and Visual Impairment: because they will continuously need to awaken their iDevice.

#### **General Settings > Accessibility**

#### Vision

- Voice Over is a screen reader. Adjustable speech rates and various dialects/languages are included. It can be supported by wireless braille displays.
  - WHAT'S NEW:

- A New Voice (Alex) You can find and download the Alex voice, which is not the default, by going in to Settings > General > Accessibility > VoiceOver > Speech > Default Dialect. This will take almost 1 GB of storage space when downloaded and you may have to restart VoiceOver when the download is complete.
- Audio Ducking This new rotor item provides control over the decrease in volume on whatever other audio is playing when VoiceOver is speaking. To activate or deactivate this feature, turn your rotor to "Audio Ducking" and flick up or down with one finger. If Audio Ducking isn't in your rotor, go to Settings > General > Accessibility > VoiceOver > Rotor, and then select the Audio Ducking option.
- Footer When the user is browsing Settings, VoiceOver may announce "Footer" after reading a block of text. This identifies the tex which gives information about the specific setting. The announcement of "Footer" could be confusing to a new user, as they may thinl that they are at the end of a page when they are not.
- Notification Interruptions Users will no longer be interrupted, by notifications, while using VoiceOver (read all gesture) to read text Notifications will not alert you and disrupt what you are reading, except for text messages.
- Mail App The Custom Actions option in the Rotor setting has been modified to present the "More" menu with Reply-all, Forward, Flag Mark-as-Read/Unread, Move to Junk, Move Message, and Notify Me. The "Notify Me" option will allow users to get push notification: when there is a reply to a certain thread of messages.
- Maps App A new feature available to VoiceOver and Braille users is Tracking. It will announce when you are approaching an intersection, and it will also give you the cross streets. Tracking will also notify you of points of interest as you move about you environment. To enable Tracking, launch the Maps app, and find the "Tracking" toggle located in the lower left corner of the touchscreen.
- **Direct Touch Typing** If you are in a text field and move to the Typing rotor option, you will still find the Standard Typing and Toucl Typing selections are still available. Direct Touch Typing is similar to Standard Typing in that you can find a key with one finger, then tag another finger on the screen to enter the character. The difference with Direct Touch Typing is that if you touch a key and immediately lif your finger, that character is entered. If the user is confident in locating the desired key on the first try, Direct Touch Typing is the appropriate choice.

• Braille When the iPad, iPod, or iPhone is connected to a Refreshable Braille Display, Braille reading and writing are accessible while using VoiceOver.

WHAT'S NEW:

• **Built-in Braille Keyboard** Added to the rotor, is a Braille entry method. It is now a universal keyboard option and works in any text field. It's labeled in the rotor selection as "Braille Screen Input." Turn the rotor to the Braille option and begin typing in Braille on the touchscreen. If it is not visible in the rotor, then in must be enabled within Settings.

Tips:

- To orient the user to the Braille dots, press and hold down a finger on the touchscreen until you hear two tones and then the phrase "entering explore mode", then drag your finger around to discover where the dots are. To exit this mode, simply lift your finger off the screen.
- To change the input from or to contracted or uncontracted Braille, flick 3 fingers to the right or left to change from one to the other.
  This can be found under Settings > General > Accessibility> VoiceOver > Braille > Braille Screen Input.
- After typing a word, flick right with 1 finger to enter a space. If you've made a mistake, flicking one finger to the left will perform a backspace.
- If you flick up or down with one finger after inputting part or all of a word, you will be offered word suggestions based on common Braille mistakes. Flick up or down with one finger until you hear the word you want, then flick right with one finger to select that choice (no need to double tap - that would just add two dots to your text). Once you have chosen a word, you can continue inputting Braille.
- > If you need to enter a new line, this can be achieved by flicking right with two fingers.
- When you are done using Braille as your input method, simply turn the rotor and all functionality of the touchscreen returns to normal just like with the handwriting mode.
- To search for an app on the Home Screen, when you type, iOS will pop up apps matching what you've typed so far. Flick up and dowr to cycle through these, and two-finger flick right to open one.

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- You can also do this with Braille gestures to enter your passcode. Note: If the first character in your passcode is a number, you will need to first enter a number sign (dots 3-4-5-6) before typing your passcode. Once you are finished entering your passcode, the phone will unlock automatically.
- It's important to note that 8-dot Braille is only supported on the iPad, not the iPod or iPhone due to the limited amount of touchscreen space available. Also worthy of note is that performing a 6 dot gesture is a bit tricky, since Apple's touchscreen only permits 5 finger gestures. As such, if you wish to do a capitol Q in 8-dot Braille, for example (dots 1-2-3-4-5-7), you would need to lift a couple of fingers after pressing those dots, but not all, so that the system knows you are going to use other dots. The same scenario applies to doing a full cell in 6 or 8-dot mode.
- Crucial Bug in iOS 8 for Braille Users If you go to Settings > General > Accessibility > VoiceOver > Braille > Status Cell, do not change them to the Right or Left setting. Doing so will render VoiceOver and Braille completely useless until a sighted person can turn the status cell back off.
- Refreshable Braille Display Built in support is included for refreshable braille display that use Bluetooth wireless technology. You can use them to read Voice Over output in contracted or non-contracted braille. Braille displays with input keys and other controls can be used to control the iPad when Voice Over is turned on.

Tips:

- QuickNav While in the Safari app, users can carry out keyboard commands for accessing QuickNav features. Examples include pressing space with Q should toggle QuickNav on and off, pressing H for the next heading, C for the next checkbox, or F for the next text field.
- Turn Pages When Panning The VoiceOver settings for Braille, provide an option called "Turn Pages When Panning". Users will no longer need to worry about advancing the pages in a book.
- Crucial Note for Braille Display Users Braille input using a Braille display has become very slow in iOS 8, regardless of which mode of input you are using.

• Zoom allows for screen magnification.

#### WHAT'S NEW

• New Zoom Features have been added to Zoom, so that it no longer only magnifies the entire screen.

Tips:

- **Follow Focus**: This setting determines whether or not the Zoom lens will follow the text cursor.
- Show Controller: This toggle places a joystick on screen which can be used to move Zoom focus around, to bring up the new Zoon control panel, and to quickly zoom in and out of an area (I found it easier to use than dragging three fingers to move my focus al over).
- Zoom Region: This feature allows a user to use Window Zoom (a smaller than full-screen lens) or Fullscreen (as in previous version) of iOS).
- Maximum Zoom Level: This slider allows users to limit how much magnification Zoom will offer, which is helpful on iPod and iPhone due to screen size limitations.
- Using Windowed Zoom: When a lens is enabled, a user will see a small horizontal bar at the bottom of the lens which allows fo access to several controls and allows the user to move the lens itself. If you drag this control, you will move the lens; if it is single tapped, Zoom will open an on-the-fly Zoom control panel. From the control panel, a user can take advantage of several options. First the user can zoom in or out (though to regain access to the control panel without visiting settings again, when Zoomed out or in Fullscreen, the controller needs to be on), and you can then choose between fullscreen or window zoom. The Zoom lens can also be resized from this menu. Users can also choose to filter just their zoomed lens; options are: Inverted, Greyscale, Inverted Greyscale and Low Light (which dims the lens on screen only). You can also hide or show the controller from this menu and grow or shrink the magnification size.
- Glitches The Zoom controller takes a backseat to VoiceOver if both are enabled, and provides some complications for using eithe feature.
- Invert Colors will change the color contrast of the screen.
- WHAT'S NEW: Grayscale turns all of the content on your iDevice gray. This can be combined with Invert Colors and/or Zoom.
- Speak Selection is a built-in text to speech application. Adjustable speech rates and voices are included. If enabled, it will highlight as it reads.

#### WHAT'S NEW:

- Speak Selection is now called **Speech**.
- **Speak Screen** A new setting that offers a way for users to "read" the screen only instead of activating VoiceOver or highlighting tex to be read.. This feature will only give users access to rewind, fast forward, play/pause, and speed. It is not intended to be a replacement for VoiceOver; rather, it is meant to be a simple solution for when a low-vision user would like to quickly read an entire screen.
- Larger Text will increase or decrease the text size within Apple apps such as Notes, Mail, Messages, and Reminders, and others.
- Bold Text will make text bold and more legible.

WHAT'S NEW:

- Text will now adapt to the color of the fonts on the Home Screen. If the Home Screen is light, the feature makes text dark; otherwise text will be light. When the background color is somewhere in-between, this setting will default to white text.
- WHAT'S NEW: **Button Shapes** allow the user to highlight interactive menu items in gray. Actionable items such as send buttons and menu wil also display an underline indicating that you can tap on certain options to perform an action. Button shapes and underlines should work for al built-in apps and some third party apps.
- Increase Contrast will make text more legible.

WHAT'S NEW:

• The user has the ability to change the shade of blue for the buttons making them more visible and less bright.

#### Learning

• Guided Access limits the user to one app by disabling the Home button, as well as restricting touch input on certain areas of the screen.

#### **Physical and Motor**

- Switch Control allows people with motor impairments to access all aspects of the iPad through the use of switches. Once this is turned on the iPad will automatically moves the cursor from one choice to the next until the individual presses the switch to select the desired option. Some different methods for access are:
  - o using an external Bluetooth switch
  - $\circ$  using the entire touch screen of the device as a switch
  - moving their head to the left and right (the front facing camera on the device watches your movement)
- AssistiveTouch lets you enter multi-touch gestures using one finger or a stylus.
- Home-click Speed can adjust the speed required to activate Double and Triple-click of the Home button.
- Accessibility Shortcut Triple-click the Home button for easy access to enabled Accessibility options.

Accessibility: VoiceOver

**Voice Over** is a gesture-based screen reader that allows you to physically interact with items on the screen and hear the item's description. It also provides information about your iPad including battery life, time of day and Internet connection signal. Voice Over will echo each character and/o word as you type to confirm your selection. Word prediction and spellcheck are also included with Speak-Auto Text enabled.

Helpful tips on getting started:

- 1. You may want to purchase a Bluetooth keyboard. Discuss the benefit of the Escape key.
- 2. Go to General Settings > Use Side Switch To > Lock Rotation. Use the iPad in Portrait mode with the Home button at the top.
- 3. Go to General Settings > Auto-Lock > 15 minutes or Never.
- 4. Go to General Settings > Accessibility > Accessibility Shortcut > VoiceOver.
- 5. Go to General Settings > Accessibility > VoiceOver and adjust the rate of speech in so that it suits individual needs. The volume of VoiceOver is distinct and will always be heard above background noise in your iPad, such as music. It can speak in 36 languages.

Other hints:

- Screen Curtain While using Voice Over, a black curtain can be pulled over the screen so others cannot view what you are accessing.
- The Rotor is a virtual control that allows the user to change the way Voice Over moves through a document based on a setting you choose For example, a flick up or down might move through text word by word. But when you choose the character setting, each time you flick up o down Voice Over moves through the text character by character.
- The rotor can also be used to navigate web pages. When on a web page, the rotor contains the names of common items, such as headers links, form elements, images, and more. The user would select a setting, and then flick up and down to move to the previous or nex occurrence of that item on the page, skipping over items in between.
- Wireless Braille Displays Built in support is included for refreshable braille display that use Bluetooth wireless technology. You can use them to read Voice Over output in contracted or non-contracted braille. Braille displays with input keys and other controls can be used to control the iPad when Voice Over is turned on.

### How to Make VoiceOver Read Using Finger Gestures

Tap: Speak item.

Flick right or left: Select the next or previous item.

Flick up or down: The effect varies depending on the Rotor Control setting.

Two-finger tap: Stop speaking the current item.

Two-finger flick up: Read all, from the top of the screen.

Two-finger flick down: Read all, from the current position.

Three-finger flick up or down: Scroll one page at a time.

Three-finger flick right or left: Go to the next or previous page (for example, on the Home screen or in Safari).

Three-finger tap: Speak the scroll status (which page or rows are visible).

Four-finger flick up or down: Go to the first or last element on a page.

Four-finger flick right or left: Go to the next or previous section (for example, on a webpage).

## Refreshable Braille Displays

VoiceOver allows the user to navigate the iPad using finger gestures, a Bluetooth keyboard, or a Refreshable Braille display.

A refreshable Braille display...

- is an electronic device that displays visual information (text) as Braille (text) on a Braille display.
- can also be used as a Braille Keyboard. Utilize six-key entry (similar to a Perkins Brailler), to navigate your iOS device, input/enter text using contracted or un- contracted Braille.
- can be used as your visual display like a monitor. It tactually displays information as Braille text.
- can also be used to move the VoiceOver cursor or open Apps much like a computer mouse. Move the VoiceOver cursor anywhere within line displayed by pressing the corresponding router key.
- also functions as your touch screen. Open Apps, type in forms, move sliders, and click buttons using the router keys. For example, to send at email you tap the send button. The same is true while using a refreshable Braille display. Visually I see a button on the screen that says send Tactually on the refreshable Braille display, the word "send button" is displayed in Braille. Simply press any router key within the word to activate the "send button".

YouTube Video: Refreshable Braille Display and the iPad

# Built-In Apps

- Notes A note pad for creating to-do lists, reminders, or jotting down good ideas.
- Mail Add and sync all your email accounts.

- Calendar Manage your appointments and meetings on the calendar and iCloud keeps them in sync across all your devices.
- Reminders Create a list of to-dos and reminders will notify you.
- Messages Send unlimited text or picture messages. (need WiFi access)
- **Dictation** Talking is the new typing. Write an email. Send a text. Search the web. Or create a note. And do it all with only your voice. Instead of typing, tap the microphone icon on the keyboard. Then say what you want to say while your iPad listens. Tap Done and, just like that, you spoken words become written words. Dictation also works with third-party apps. (need WiFi access)
- Camera/Video Camera Capture pictures or video with this app and then store them on your device or share them with friends. Crop, rotate and enhance your photos. Use the camera as an electronic magnifier. To take a Screen Shot Hold down sleep (on/off) button and simultaneously push home button...it will take a picture and then go to photos.
- Facetime Make video calls from one iDevice to another, for free. (need WiFi access)
- Safari Use your internet to access information from around the world. (need WiFi access)

### Tips and Tricks for Students with Visual Impairments

- Add most important apps to the Dock or the Home Screen for easy to access.
- Use Wiki Sticks as a tactile reinforce for teaching what the iPad screen looks like.
- The iPod may be easier for students with visual impairments to navigate with VoiceOver gestures because the screen is smaller.
- Use a large plastic storage bag and puff paint to create an overlay for the iPad. You can specifically design them to mirror the features of an app.

### Tips and Tricks

• To copy and paste text, just tap and hold a word, then use your finger to drag to select more text, and then Copy it. Go to another application, tag and hold in the input box, and then use Paste. (Want to select an entire paragraph, tap it 4 times to highlight the entire paragraph, then use Copy.)

- Split the Keyboard on the bottom of your screen, so that you can hold the iPad in both hands and type more efficiently. Tap and hold on the keyboard icon in the lower right and drag up to split the keyboard.
- Double tapping the space bar on the keyboard of your iDevice will automatically insert a period and a space.
- Turn off keyboard clicks by going into Settings > Sounds > and then change Keyboard Clicks to OFF.
- Use the magnifying glass to fine tune the insertion point of your blinking cursor. Touch and hold your finger in the right area until the magnifying glass appears.
- To add an apostrophe without having to navigate to the second screen on your keyboard, just tap and hold on the exclamation key and a hidder apostrophe will appear, then just slide one finger up to access it.
- Turn iPad caps lock on by double tapping the shift key on your keyboard. Settings > General > Keyboard > Enable Caps Lock.
- Tapping and holding on normal letters will reveal their special character versions instead.
- Create typing shortcuts for frequently used phrases within Keyboard Settings (General).

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