

Using a Refreshable Braille Display with the iPad

iOS 8

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Introduction

Curriculum Objectives

- Learn the basics of how to use the Refreshable Braille Display
- Learn the basic Refreshable Braille Display commands
- Learn how to use the Refreshable Braille Display to navigate and answer common classroom assignments

The *Using a Refreshable Braille Display with the iPad* manual is being shared on the *Paths to Technology* website with permission from SAS Institute Inc.

Overview

VoiceOver is a screen reader built into the iPad and other iOS operating systems. This manual specifically addresses using VoiceOver gestures and VoiceOver paired with a Refreshable Braille Display (RBD). This manual will discuss the RBD commands that are commonly used to navigate the iPad as well as how to edit, select, cut, copy, and paste. This manual will also discuss how students who are visually impaired and blind can navigate and complete digital homework assignments and assessments.

The target audience of this manual is teachers of the visually impaired. The goal of the manual is to provide training on how to successfully drive the iPad – using VoiceOver and the RBD – so that teachers of the visually impaired can enable academic students who are visually impaired and blind to use an iPad in mainstream classrooms.

VoiceOver

VoiceOver is a screen reader. With VoiceOver, you use simple gestures to physically interact with items on the screen. Simply touch the screen to hear an item's description, double tap to select an item, drag or flick to control or maneuver around the iPad. VoiceOver allows you to interact directly with the item in physical space on the iPad which enables you to understand

the item's location and context within that space. When using VoiceOver, the iPad can be paired with a Refreshable Braille Display.

Refreshable Braille Display (RBD)

A Refreshable Braille Display (RBD) is a braille keyboard and braille display that enables a blind user to easily interact with the iPad. Working in tandem with VoiceOver, the RBD can be used to read, write and to drive the iPad.

This manual has been created specifically to be used in conjunction with the training course "Using a Refreshable Braille Display with the iPad" offered by SAS. This is the fourth course in a series of iPad accessibility trainings designed specifically for teachers of the visually impaired.

"Introduction to iPad Accessibility Features for Blind and Low Vision Students"

~~"Intro to Reading, Writing and Research on the iPad"~~ (No longer available.)

"Bluetooth Keyboard Commands with VoiceOver on the iPad"

"Using a Refreshable Braille Display with the iPad"

For more information about these trainings, contact dianebrauner@me.com

Outline

Chapter 1: Settings

- 1.1 Update iOS Software
- 1.2 Rotor Settings
- 1.3 Multitasking Gestures
- 1.4 Triple-Click Home
- 1.5 Speech Rate
- 1.6 Larger Type
- 1.7 Bold Text
- 1.8 Increase Contrast
- 1.9 Reduce Motion
- 1.10 Large Cursor
- 1.11 Auto-Lock
- 1.12 Side Switch: Lock Rotation/Mute
- 1.13 Sounds and Alerts
- 1.14 Connect Wi-Fi
- 1.15 Passcode Lock
- 1.16 Contracted Braille
- 1.17 Automatic Braille Translation
- 1.18 Eight-dot & Six-dot Braille
- 1.19 Status Cell
- 1.20 Equations Use Nemeth Code
- 1.21 Show Onscreen Keyboard
- 1.22 Braille Translation
- 1.23 Home Screen Layout

Chapter 2: Navigating Apps with the RBD

- 2.1 Basic RBD Navigating Commands
 - Help Mode
- 2.2 Panning Keys
- 2.3 Flashing RBD Cursor
- 2.4 Insertin Point at Start/Insertin Point at End

- 2.5 Move Cursor by Dragging One Finger
- 2.6 Routing Button to Move the Cursor
- 2.7 Routing Button Converts One Word to Uncontracted Braille
- 2.8 Toggle between Uncontracted/Contracted Braille
- 2.9 Navigating a Document while Editing by Words or Characters
- 2.10 Punctuation Rotor Options
- 2.11 Mute: Braille Only Mode
- 2.12 Screen Curtain
- 2.13 Enter/Exit Announcement Mode

Chapter 3: Manipulating Text with a Refreshable Braille Display

- 3.1 Selecting Text
- 3.2 Copy, Cut or Paste Text
- 3.3 Using the Rotor to Cut, Copy, Paste, Highlight, Define or Create a Comment
- 3.4 Replace Misspelled Word

Chapter 4: Modifying, Navigating & Answering Homework Questions

- 4.1 Modifying Documents
 - Underscore Lines
 - Answer after a Colon
 - Paragraph Formatting
 - Automatic Numbering and Lettering
 - Word Banks
- 4.2 Navigating and Inserting Answers
 - Answering Fill in the Blank Questions
 - Answering Multiple Choice Questions