

# VPAT™ for Apple iBooks 2

The following Voluntary Product Accessibility information refers to the **Apple iBooks version 2 running on iOS 5**. For more information on the accessibility features of this product and to learn more about this product's features, visit <http://www.apple.com/ipad/features/ibooks.html> and <http://www.apple.com/accessibility>

## VPAT™

### Voluntary Product Accessibility Template®

#### *Summary Table*

<b>Criteria</b>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
Section 1194.21 Software Applications and Operating Systems	Please refer to the attached VPAT	
Section 1194.22 Web-based Internet Information and Applications	Please refer to the attached VPAT	
Section 1194.23 Telecommunications Products	Not applicable	
Section 1194.24 Video and Multi-media Products	Please refer to the attached VPAT	
Section 1194.25 Self-Contained, Closed Products	Not applicable	
Section 1194.26 Desktop and Portable Computers	Not applicable	

Section 1194.31 Functional Performance Criteria	Please refer to the attached VPAT	
Section 1194.41 Information, Documentation and Support	Please refer to the attached VPAT	

### **Section 1194.21 Software Applications and Operating Systems – Detail**

<b>Criteria</b>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	Partially Supported	The app runs on primarily touch based devices, but text-entry is available from the keyboard if you attach or connect a compatible external keyboard. Navigation of the app is not supported through the keyboard.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	Supported	
(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.	Supported	iBooks takes advantage of the built-in accessibility technologies, such as VoiceOver, within iOS.

<p>(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.</p>	<p>Supported</p>	<p>Touching controls announces the name of the control using the VoiceOver screen reading technology in iOS.</p>
<p>(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.</p>	<p>Supported</p>	
<p>(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.</p>	<p>Supported</p>	
<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p>	<p>Supported</p>	<p>iOS provides user-selected control of display characteristics that cannot be overridden by applications, including:</p> <ul style="list-style-type: none"> <li>• Reverse video: White-On-Black or Black-On- White.</li> <li>• Screen magnification</li> <li>• Screen brightness</li> </ul>
<p>(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.</p>	<p>Not supported</p>	
<p>(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p>	<p>Supported</p>	<p>VoiceOver announces the name of each control.</p>

<p>(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.</p>	<p>Partially Supported</p>	<p>iBooks supports a high contrast display mode included in iOS called “White on Black”. iBooks also provides three different color display options (“Black on White”, “Sepia”, and “White on Black” (aka: “Night”), in addition to a user-configurable display Brightness control. iBooks also allows the user to put display content in “Fullscreen”, removing visual distraction of the UI.</p> <p>In some cases, content producers may not allow for different color display options such as “Sepia” or “Night” inside a book.</p>
<p>(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>Supported</p>	
<p>(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.</p>	<p>Supported</p>	<p>When using iBooks with VoiceOver in iOS, VoiceOver will announce all form elements as you navigate the form</p>

### ***Section 1194.22 Web-based Internet information and applications – Detail***

<b><i>Criteria</i></b>	<b><i>Supporting Features</i></b>	<b><i>Remarks and explanations</i></b>
<p>(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).</p>	<p>Partially supported</p>	<p>iBooks supports this capability, however compliance is dependent on content producers to deliver materials that include "alt" text descriptions.</p>

(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Partially supported	In some cases, content producers can include multimedia videos and audio inside a book. These audio and video assets may not fully accessible. It is up to content producers to follow best practices for accessibility.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Partially supported	In most cases, content producers can specify color as they desire. However, for fixed layout books, this option is not supported.
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Partially supported	Fixed layout documents require a stylesheet. Standard ePub documents and PDFs do not have this dependency.
(e) Redundant text links shall be provided for each active region of a server-side image map.	Supported if content providers follow Web best practices	Content for iBooks is supplied by third parties. It is up to content producers to follow Web best practices for accessibility
(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	Supported if content providers follow Web best practices	Content for iBooks is supplied by third parties. It is up to content producers to follow Web best practices for accessibility
(g) Row and column headers shall be identified for data tables.	Supported if content providers follow Web best practices	Content for iBooks is supplied by third parties. It is up to content producers to follow Web best practices for accessibility
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Supported if content providers follow Web best practices	Content for iBooks is supplied by third parties. It is up to content producers to follow Web best practices for accessibility
(i) Frames shall be titled with text that facilitates frame identification and navigation	Not supported	iBooks does not make use of frames.
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supported if content providers follow Web best practices	Content for iBooks is supplied by third parties. It is up to content producers to follow Web best practices for accessibility

(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.	Not Supported	An alternate view is unavailable.
(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive Technology.	Supported if content providers follow Web best practices	Content for iBooks is supplied by third parties. It is up to content producers to follow Web best practices for accessibility
(m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).	Not applicable	
(n) When electronic forms are designed to be completed on-line, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Supported	
(o) A method shall be provided that permits users to skip repetitive navigation links.	Supported	Links can be skipped using VoiceOver
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not applicable	

Note to 1194.22: The Board interprets paragraphs (a) through (k) of this section as consistent with the following priority 1 Checkpoints of the Web Content Accessibility Guidelines 1.0 (WCAG 1.0) (May 5 1999) published by the Web Accessibility Initiative of the World Wide Web Consortium: Paragraph (a) - 1.1, (b) - 1.4, (c) - 2.1, (d) - 6.1, (e) - 1.2, (f) - 9.1, (g) - 5.1, (h) - 5.2, (i) - 12.1, (j) - 7.1, (k) - 11.4.

## **Section 1194.24 Video and Multi-media Products – Detail**

<b>Criteria</b>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
a) All analog television displays 13 inches and larger, and computer equipment that includes analog television receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals. As soon as practicable, but not later than July 1, 2002, widescreen digital television (DTV) displays measuring at least 7.8 inches vertically, DTV sets with conventional displays measuring at least 13 inches vertically, and stand-alone DTV tuners, whether or not they are marketed with display screens, and computer equipment that includes DTV receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals.	Not applicable	
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	Not applicable	
(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned.	Not applicable	

(d) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.	Not applicable	
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	Partially Supported	Content for iBooks is supplied by third party content providers. If the content providers includes closed captioning support, it will be supported in that video within iBooks. It is up to content providers to follow best practices for accessibility.

### **Section 1194.31 Functional Performance Criteria – Detail**

<b>Criteria</b>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Supported	iBooks supports VoiceOver, a powerful screen reading technology, built into iOS.
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Supported	iBooks supports VoiceOver, a powerful screen reading technology, built into iOS. Users can also choose larger font sizes in ePub documents or use the zooming features of iOS to enlarge the contents of PDFs



<p>(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided</p>	<p>Supported</p>	<p>iBooks supports playback of closed caption content and subtitles (when available). iBooks supports a feature called “mono audio” that plays stereo left and right audio channels in both ears.</p>
<p>(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.</p>	<p>Supported</p>	<p>iBooks supports playback of closed caption content and subtitles (when available). iBooks supports a feature called “mono audio” that plays stereo left and right audio channels in both ears.</p>
<p>(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.</p>	<p>Supported</p>	
<p>(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.</p>	<p>Partially supported</p>	<p>Using iBooks requires the use of a bare finger or compatible conductive device such as a stylus (sold separately). For those who cannot enter Multi-Touch gestures that require two or more fingers, iBooks supports AssistiveTouch which can be used with only one finger, and supports gesture input from adaptive devices.  A wireless Bluetooth keyboard can also be used for text input, in addition to, or in place of, the onscreen keyboard.  The integrated VoiceOver screen reader can be controlled using a Bluetooth wireless keyboard. Some Bluetooth wireless braille displays provide input buttons that can be used in addition to on screen controls.</p>

## **Section 1194.41 Information, Documentation and Support – Detail**

<b>Criteria</b>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge	Supported	The product documentation is available as a free download from iBookstore. Customers can use Voice Over or other built-in accessibility technologies in iBooks and iOS to read its contents.
(b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.	Supported	Information about Apple’s built-in access technologies is available at <a href="http://www.apple.com/accessibility">http://www.apple.com/accessibility</a>
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	AppleCare is available through a variety of channels, including phone, email, and online.

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