

VPAT™ for Numbers 3.1 for iOS

The following Voluntary Product Accessibility information refers to **Numbers 3.1 for iOS**. For more information on this product's features and the accessibility features it takes advantage of, visit <http://www.apple.com/apps/iwork/numbers/> and <http://www.apple.com/accessibility>

VPAT™ Voluntary Product Accessibility Template *Summary Table*

Criteria	Supporting Features
Section 1194.21 Software Applications and Operating Systems	Please refer to the attached VPAT
Section 1194.22 Web-based Internet Information and Applications	Not Applicable
Section 1194.23 Telecommunications Products	Not Applicable
Section 1194.24 Video and Multi-media Products	Not Applicable
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

Criteria	Supporting Features	Remarks and Explanations
<p>(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.</p>	<p>Supported with exceptions</p>	<p>Numbers for iOS is designed to be fully usable without the need for a physical keyboard, but it can also be used with a physical keyboard paired with the iOS device. When used in that way, by default, not all functions can be performed using the keyboard only.</p> <p>However, when using the built-in iOS screen reader called VoiceOver with a bluetooth keyboard, most of the elements of the interface and of Numbers documents can be accessed using only the keyboard.</p>
<p>(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.</p>	<p>Supported</p>	<p>Numbers for iOS works with all accessibility features built into iOS. For more information about iOS accessibility features, visit http://www.apple.com/accessibility</p>
<p>(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.</p>	<p>Supported</p>	
<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>Most user interface elements convey description, role and state information.</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.	Supported with exceptions	Some warning flags are not read through VoiceOver.
(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.	Supported	
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supported	
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Not Applicable	
(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.	Not supported	The visual design language used in Numbers for iOS is consistent with that of iOS 10, and as such lacks certain traits that could supplement color for conveying the role of certain user interface elements (e.g. no borders around most buttons).
(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.	Partially supported	While Numbers for iOS does not have app specific settings, iOS allows for system-level control of display characteristics, and provides the ability to choose intensity and hue among some of them. iOS allows you to reduce transparency to increase legibility and reduce the white point to decrease the intensity of bright colors.
(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.	Supported	
(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.	Supported with exceptions	Although elements of a formula are exposed correctly through VoiceOver, making it legible for users requiring use of a screen reader, it is currently not possible to edit a formula in the formula creation area with VoiceOver.

Section 1194.31 Functional Performance Criteria – Detail

Criteria	Supporting Features	Remarks and Explanations
<p>(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.</p>	<p>Supported</p>	<p>Numbers works with the built-in screen reader called VoiceOver that enables iOS to be used by those who are blind or visually impaired. VoiceOver is available in over 30 languages. For more information about VoiceOver, visit http://www.apple.com/accessibility/ios/voiceover/</p>
<p>(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.</p>	<p>Supported</p>	<p>Numbers works with the built-in feature called Zoom with full-screen magnification up to 1500%. For more information about iOS accessibility features related to vision impairments, visit http://www.apple.com/accessibility/ipad/vision/</p>
<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>Numbers does not require hearing for use. However, audio or video content can be inserted into Numbers documents, and Numbers for iOS takes advantage of iOS's built-in support for closed captions.</p> <p>It also takes advantage of iOS's built-in mono audio mode, as well as iOS's compatibility with ear loop devices that enable the use of some T-coil hearing aids.</p> <p>Additionally, iOS now supports Made for iPhone hearing aids, to provide a high-quality digital audio experience for users with compatible hearing aid models.</p> <p>For more information about iOS accessibility features related to hearing impairments, visit http://www.apple.com/accessibility/ipad/hearing/</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>Not Applicable</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>Even though Numbers for iOS can take advantage of iOS's built-in dictation feature, its default mode of operation simply requires interacting with onscreen controls by directly touching the screen of the iOS device.</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>Supported with exceptions</p>	<p>Numbers for iOS takes advantage of a touch sensitive screen and does not require force or pressure to operate. However, it requires the use of a bare finger or conductive device. Users with motor skills or other disabilities that prevent them from having direct skin contact with the touchscreen may require a conductive stylus. In some cases, using a stylus may result in erratic touchscreen behavior and may scratch or damage the touchscreen. Caution should be taken in choosing an appropriate stylus.</p> <p>Optional keyboard may also be used for navigation with the arrow keys and text entry.</p> <p>Alternatively, Numbers for iOS also works with the built-in features AssistiveTouch and Switch Control, which allow users with varying ranges of motor impairments to use all aspects of iOS devices, including aspects that require complex multi-touch gestures.</p> <p>For more information about iOS accessibility features related to physical or motor challenges, visit http://www.apple.com/accessibility/ipad/physical-and-motor-skills/</p>

Section 1194.41 Information, Documentation and Support – Detail

Criteria	Supporting Features	Remarks and Explanations
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge.	Supported	Online documentation can be found in an accessible HTML format at http://www.apple.com/support/ios/numbers/
(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 Numbers and iOS's built-in access technologies is available at http://www.apple.com/accessibility
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	Email support and discussion groups are available at http://www.apple.com/support/ios/numbers/

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