

Software and Testing Resources

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Conformance Tools

Conformance Tools	Purpose	Platform
Accenture Client		Mac-compatible applications
Accenture Client		Windows applications
Accenture Digital Diagnostic (DD)	Generates HHS Section 508 reports for the NIMH Main Web and Intranet sites. The reports will be managed by the 508 Coordinator and authorized report users and Accenture super-users within each Institute or Center.	
Adobe Acrobat 9 Professional	Creates PDF files and includes accessibility testing as well as remediation tools.	
Adobe Acrobat X for Mac		Mac-compatible applications
Adobe Acrobat X for PC		Windows applications
Adobe Captivate 5 for Mac		Mac-compatible applications
Adobe Captivate 5 for Windows – E-Learning authoring, including captioning		Windows applications
Adobe Dreamweaver CS	Creates standards-based XHTML and Cascading Style Sheets (CSS). Also includes a 508 checker (LIFT) to identify and fix errors.	

Conformance Tools	Purpose	Platform
Application Accessibility Evaluator 1.0	<p>“The Virtual508 Application Accessibility Evaluator 1.0 provides both Software Purchasers and Developers with a simple tool for evaluating and reporting the compliance of ANY Desktop Application with Microsoft's® Active Accessibility API (MSAA) - MS's standard for Application Accessibility.”</p> <p>http://www.virtual508.com/accessibilityevaluator.html</p>	
Bobby Watchfire	<p>Scans the site for any non-conformant content on site.</p> <p>In 1995, CAST launched Bobby as a free public service to make the burgeoning World Wide Web more accessible to individuals with disabilities. Bobby was sold to Watchfire in 2004 which, in turn, was acquired by IBM in 2007. CAST is the Center for Applied Special Technology.</p>	
CommonLook	Plug-in for Adobe Acrobat Professional which provides users with a step-by-step method for identifying and remediating 508 issues in PDF documents. NetCentric	Windows applications
CommonLook PAW – PDF Accessibility Wizard		Windows applications
CommonSpot, SharePoint 2007, and SharePoint 2010 Content Management Systems	Store and organize all Web content on the NICHD Main Web, Intranet, and archive sites. Allow use of standardized templates and Cascading Style Sheets (CSS) to present compliant Web content.	
Content Management System	Stores and organizes most Web content on various NIH IC web sites. Allows use of standardized templates and Cascading Style Sheets (CSS) to present compliant Web content.	

Conformance Tools	Purpose	Platform
Firefox Accessibility Add-ons and Extensions	<p>Downloadable add-ons and extensions for Mozilla's Firefox browser that include Web development tools, accessibility "validators," and assistive technology simulators.</p> <p>Examples include: Web Developer by Chris Pederick, Firefox Accessibility Extension, and the Fangs Screen Emulator.</p>	
Firefox Accessibility Extension	Firefox add-on from the Illinois Center for Information Technology Accessibility for checking web site accessibility: HTML, images, document structure, colors, CSS, links, etc.	
HHS Usability Lab	Located at HHS headquarters. It includes various testing tools for accessibility and usability.	
http://wave.webaim.org	WAVE is developed and made available as a free community service by WebAIM. Originally launched in 2001, WAVE has been used to evaluate the accessibility of millions of Web documents.	
InFocus	Software tool for making Web sites and applications accessible to blind and disabled people and compliant with Section 508 and the W3C's WCAG. InFocus allows developers to check Web pages for accessibility violations and automates the remediation process.	
Internet Explorer Add-ons	<p>Downloadable add-ons and extensions for Microsoft's Internet Explorer browser that include web development tools, accessibility validators, and assistive technology simulators.</p> <p>Examples include; Accessibility Extension for IE</p>	
JSP Source File Scanner	Developed within eRA to identify non-compliant form elements. It scans all of the JSP and HTML files of an application and provides a violations report (images missing required alt attributes, form controls missing required labels, etc.).	

Conformance Tools	Purpose	Platform
Lift	Lift Onsite and Lift Online are both developed by UsableNet, Inc. Lift Onsite is software that allows web designers and web owners to test and repair accessibility and usability issues, including site navigability, download speed, graphic quality, accessibility, searchability, etc. LIFT Online is the evaluation portion of LIFT onsite.	
Lynx Viewer	An online viewer that enables pages to be tested/viewed in a text browser.	
MAGPie	Free captioning software from WGBH/NCAM that creates an XML file with timestamp information.	
Office Mac 2011		Mac-compatible applications
PDF Accessibility Checker (PAC)	http://www.access-for-all.ch/en/pdf-lab/pdf-accessibility-checker-pac.html	
Screen Reader & Magnifier		Windows applications
Serena Collage Web Content Management System	Stores and organizes all static web content on the CC Main Web, Intranet and Archive sites. Allows use of standardized templates and Cascading Style Sheets (CSS) to present compliant Web content.	
TeamSite Content Management System	Stores and organizes all Web content on the NINDS main Web, intranet and Archive sites. Allows use of standardized templates and Cascading Style Sheets to present compliant Web content.	

Conformance Tools	Purpose	Platform
Web Accessibility Toolbar for IE	Software from the Web Accessibility Tools Consortium for checking web site accessibility: HTML, images, document structure, colors, CSS, links, etc.	
WebAIM (Web Accessibility in Mind)	Web site that provides tutorials and how-to guides for making content accessible.	

Assistive Technology

Vendor	Assistive Technology ¹	Purpose	Platform
	Adaptive Technology	<p>Adaptive technology is the name for products which help people who cannot use regular versions of products, primarily people with physical disabilities such as limitations to vision, hearing, and mobility.</p> <p>Adaptive technology promotes greater effectiveness for persons with functional limitations or disabilities by enabling them to perform tasks that they were formerly unable to accomplish, or had great difficulty accomplishing. Adaptive technology provides changed methods of interacting with or enhancements to the technology</p>	

¹ Should be used for accessibility and usability testing, not Section 508-conformance testing.

Vendor	Assistive Technology ¹	Purpose	Platform
	Assistive Technology	<p>Assistive technology is technology used by individuals with disabilities in order to perform functions that might otherwise be difficult or impossible. Assistive technology can include mobility devices such as walkers and wheelchairs, as well as hardware, software, and peripherals that assist people with disabilities in accessing computers or other information technologies. For example, people with limited hand function may use a keyboard with large keys or a special mouse to operate a computer, people who are blind may use software that reads text on the screen in a computer-generated voice, people with low vision may use software that enlarges screen content, people who are deaf may use a TTY (text telephone), or people with speech impairments may use a device that speaks out loud as they enter text via a keyboard.</p> <p>AccessIT (The National Center on Accessible Information Technology in Education)</p>	
	CCTV (ClearView)	<p>Closed-circuit television (CCTV) is an auto-focus desktop video magnification system, designed to assist individuals with low vision. Simple operations provide magnification of texts and objects in different colors with adjustable brightness and contrast.</p>	ClearView
	Jawbone	Ties Dragon Dictate and Jaws together. Learning disabled and blind students can benefit from this program	
	JAWS	Screen reading software for students who are blind. This software can read anything that pops up on a computer screen as long as there are no images or symbols. A student would learn the keystroke commands on either a laptop or desktop in order to master use of this amazing technology. For exams, all documents should be given to SSD in Microsoft word format.	

Vendor	Assistive Technology ¹	Purpose	Platform
	J-Say	<p>Lets JAWS and Dragon work together</p> <p>http://www.freedomscientific.com/jaws-hq.asp</p>	
	Kurzweil 3000 & 1000	<p>Screen reading software provided for students with disabilities related to reading. Electronic versions of academic books can be read to these students. Kurzweil 3000 also has “Read the Web” options and allows students to organize reading materials in ways that help them study more effectively. Kurzweil 1000 is specifically designed for students who are blind. We have versions of Kurzweil 3000 for both PC and Macintosh computers.</p>	
	Livescribe Pulse Smartpen	<p>It is a pen that comes with specialized notebooks and records everything that you hear and write. It also has a USB connector that allows you to view an electronic copy of your notes on your computer. You can also download the paper and make your own note-book by following the manufacturer’s instructions.</p>	
	Perkins Brailler	<p>This is essentially a Braille typewriter. The Braille is embossed onto Braille paper.</p> <p>http://support.perkins.org/site/PageServer?pagename=store_homepage</p> <p>http://support.perkins.org/</p>	

Vendor	Assistive Technology ¹	Purpose	Platform
	Screen Readers and Magnifiers	<p>Software to help people with visual impairments.</p> <p>Ai Squared</p> <p>JAWS (Freedom Scientific)</p> <p>Dolphin</p>	
	Texthelp Read and Write Gold (Trial Program)	<p>Texthelp Read and Write Gold provides similar features of speech feedback of Kurzweil 3000 but you can use it in many desktop applications like Microsoft Office®, Internet Explorer® and Adobe Acrobat®. In addition to speech feedback it has specialized dictionaries and word prediction features that can assist in writing papers and organizing research. More information and tutorials about Read and Write Gold can be found on the TextHelp website. Contact your resource facilitator or Jon Gunderson if you are interested in trying Texthelp Read and Write Gold</p>	
	Trackball Mouse	<p>A computer Pointing Device that resembles an upside-down Mouse. Instead of rolling the mouse around the desktop, the user rotates the ball on the trackball with a thumb or finger.</p>	
	View Enlargers	<p>Both hardware and software (screen Magnifier). Presents the ability to enlarge either printed or electronic documentation</p>	
	VoiceOver 3		Mac-compatible applications
	Window Eyes – Screen Reader	<p>Screen reader software used by the visually impaired.</p> <p>http://www.gwmicro.com/Window-Eyes/</p>	Windows applications

Vendor	Assistive Technology ¹	Purpose	Platform
	<u>Zoomtext</u>	Screen and/or electronic file magnification software that allows students with low vision to access materials on a computer screen. It also has a read to option and allows students to adjust screen backgrounds to adjust brightness etc. http://aisquared.com/zoomtextexpress	
AI Squared	AI Squared	http://www.aisquared.com/zoomtext/more/zoomtext_magnifier_reader/	
AI Squared	Zoomtext http://aisquared.com/	<u>ZoomText</u> is a magnifier/screenreader that echoes typing, reads information pointed to by the mouse, and speaks program events as they occur. Software product that enlarges text (Zoomtext) Screen and/or electronic file magnification software that allows students with low vision to access materials on a computer screen. It also has a read to option and allows students to adjust screen backgrounds to adjust brightness etc.	Windows applications
AI Squared	ZoomText Magnifier ZoomText Magnifier/Reader ZoomText Express	Ai Squared Software to help people with visual impairments.	
Dolphin	Dolphin	This is a support program to help people with reading and writing difficulties while using their computer. It can read text aloud and help you construct words and sentences using word prediction. It has an enhanced spell checker and a built in screen reader.	

Vendor	Assistive Technology ¹	Purpose	Platform
Dolphin	EasyConverter v5.01 Easy Converter v.5.05	http://www.yourdolphin.com/newsitem.asp?id=608	
Dolphin	Hal	Screen reader software used by the visually impaired. http://www.yourdolphin.com/productdetail.asp?id=5	
Duxbury	Duxbury Translation Software	Braille translation program. Takes written text and converts it to Braille.	
Freedom Scientific		Software product that enlarges text (Magnifier) http://www.freedomscientific.com	
Freedom Scientific	Freedom Scientific	JAWS (Speaks to you) – requires use of keyboard but not a monitor or a mouse	
Freedom Scientific	Freedom Scientific	http://www.freedomscientific.com/default.asp	
Freedom Scientific	Freedom Scientific	MAGic 11 (MAGic Pro with Speech) for Office 2010 – Screen Magnification with Speech	Windows applications
Freedom Scientific	JAWS	JAWS is a screenreader. JAWS for Windows works with your PC to provide access to software applications and the Internet. With its internal software speech synthesizer and the computer’s sound card, information from the screen is read aloud. JAWS also outputs to refreshable Braille displays.	

Vendor	Assistive Technology ¹	Purpose	Platform
Freedom Scientific	JAWs & Window Eyes	Screen reader software applications used by the visually impaired. (Should be used for accessibility and usability testing, not Section 508-conformance testing.)	Windows applications
Freedom Scientific	JAWS (Job Access With Speech) for Windows	<p>Screen reader software used by the visually impaired.</p> <p>Works with Dragon to provide computer access to students who have a visual impairment, blindness, or a learning disability. JAWS verbally reads back what has been typed on the document. A useful tool for having the computer read aloud a text based document.</p> <p>Screen reading software for students who are blind. This software can read anything that pops up on a computer screen as long as there are no images or symbols. A student would learn the keystroke commands on either a laptop or desktop in order to master use of this amazing technology. For exams, all documents should be given to SSD in Microsoft word format.</p>	Windows applications
IBM	IBM Via Voice		
Kurzweil	Kurzweil	Reads scanned and electronic text aloud using human sounding synthetic speech. Words are highlighted in contrast as they are spoken. A useful tool for students with learning disabilities and Attention Deficit Disorder (ADD).	
Kurzweil	Kurzweil 3000	Kurzweil Educational Systems is the leader in assistive technology with text-to-speech and software literacy solutions. Kurzweil 3000 is designed to provide access to print materials for students with learning disabilities by providing speech feedback and highlighting of text in books and PDF documents to improve comprehension and reading efficiency.	

Vendor	Assistive Technology ¹	Purpose	Platform
Kurzweil	<u>Kurzweil 3000 & 1000</u>	Screen reading software provided for students with disabilities related to reading. Electronic versions of academic books can be read to these students. Kurzweil 3000 also has “Read the Web” options and allows students to organize reading materials in ways that help them study more effectively. Kurzweil 1000 is specifically designed for students who are blind. We have versions of Kurzweil 3000 for both PC and Macintosh computers.	
Nuance	<p>Dragon Naturally Speaking Professional 11.5</p> <p>Dragon Medical Practice Edition</p> <p>Dragon Naturally Speaking Legal</p>	<p>Dragon NaturallySpeaking is a voice input program. Users can dictate into windows-based applications and Dragon turns the speech into text.</p> <p>Dictation software that allows students with mobility impairments and/or learning disabilities to dictate information into a microphone and have the words type out onto the computer screen. This requires training for the student.</p> <p>http://www.cap.mil/</p> <p>Dragon Naturally Speaking Professional 11.5</p> <p>Dragon Medical Practice Edition</p> <p>Dragon Naturally Speaking Legal</p> <p>Speech recognition software used by persons with dexterity impairments. (<i>“You speak to computer.”</i>)</p>	Windows applications
Nuance	Naturally Speaking	Voice controlled word processor. Allows the user to dictate sentences to the computer by converting voice into text. The program can be used to compose E-mail messages, create reports, draft letters, edit proposals, and more, just by speaking.	

Vendor	Assistive Technology ¹	Purpose	Platform
WordQ	WordQ	WordQ software is a special education writing tool used along with standard Windows word processing software to provide spelling, English grammar (and French grammar), and reading assistance. It uses advanced word prediction to suggest words for you to use and provides spoken (text-to-speech) feedback. WordQ also acts a text reader to help you proof-read your work or to read existing or scanned text.	

Assistive Technology Resources

The High Tech Center provides access to various assistive software and hardware technologies for qualified students.

Vision

Assistive Software & Hardware	Primary Function	Description
Duxbury (Windows)	Braille Translation Software	Produces Braille as a reading medium for individuals who are blind. http://www.duxburysystems.com
Easy Reader	Digital Talking Book Player	EasyReader allows the user to read and listen to content through a combination of text, audio and images. http://www.yourdolphins.com/products.asp
JAWS 4.02	Voice Output software: text-to-speech	Provides voice output/screen-reading for blind or low-vision users. http://www.freedomscientific.com
Juliet Pro	Braille Embosser	Provides double-sided Braille. http://www.brailleur.com
Kurzweil 1000	Voice Output software: text-to-speech	Provides blind users access to printed and electronic materials. Scanned print documents and digital files (such as eBooks or e-mail) are converted from text to speech and read aloud. http://www.kurzweiledu.com

Assistive Software & Hardware	Primary Function	Description
Kurzweil 3000	Voice Output software: text-to-speech	Provides voice output for individuals with learning needs. It offers reading, writing, and study skills tools for the user. http://www.kurzweiledu.com
Pictures in a Flash	Tactile Image Maker	PIAF produces high quality tactile graphics using heat sensitive capsule paper. It is ideal for people who are blind and vision impaired. Piaf's controlled heat source causes any black lines, letters or shapes that are drawn, printed or copied onto the capsule paper to swell. The result is an instant tactile graphic. http://www.aroga.com/blindness
TextAloud	Voice Output software: text-to-speech	Text Aloud uses voice synthesis to convert text into spoken audio. http://www.nextup.com
Victor Reader Soft	Voice Output software: text-to-speech	Software that reads digital audio books. Victor Reader Soft combines the audio and text mode that lets you read the text on screen synchronized with audio, and the software is fully accessible to print for disabled persons. http://www.humanware.ca
Window Eyes	Voice Output software: text-to-speech	Provides voice output/screen-reading for blind or low-vision users. http://www.gwmicro.com
ZoomText Xtra	Text Magnification software	Supports low vision users through magnification while working in various applications. http://www.aisquared.com

Mobility

Assistive Software & Hardware	Primary Function	Description
Dragon Naturally Speaking	Voice Recognition Software	Continuous recognition of natural speech, allowing speech to text conversion. Ideal for those with limited mobility in keyboard use. http://www.nuance.com/products

Assistive Software & Hardware	Primary Function	Description
Keyboard Filter (Windows)	Keyboard Modification	Used by individuals with mobility impairments for a more comfortably computing environment. Supports alternative keyboards.
CoWriter	Word Prediction Software	Writing assistant that provides prediction while typing. http://www.donjohnston.com
Trackball Mouse	Ergonomic Mouse	A mouse designed for maximum comfort and for individuals with limited mobility.
Intellikeys	Alternative Keyboard	An alternative keyboard device that allows individuals with mobility impairments to type in a more comfortable environment. http://www.intellitools.com

Learning

Assistive Software & Hardware	Primary Function	Description
Kurzweil 3000	Voice Output software: text-to-speech	Provides voice output for individuals with learning needs. It offers reading, writing, and study skills tools for the user. http://www.kurzweilededu.com