

AT Access to Flash and PDF

Featuring Adobe Acrobat 9
and Flash Player 10

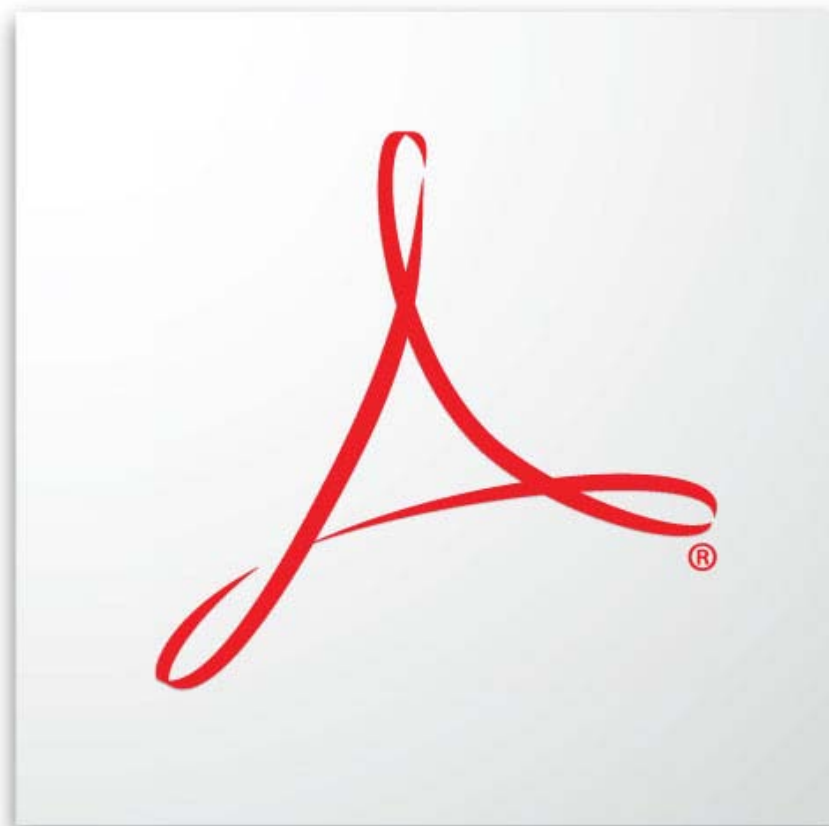
Matt May (@mattmay)

25 Mar 2010



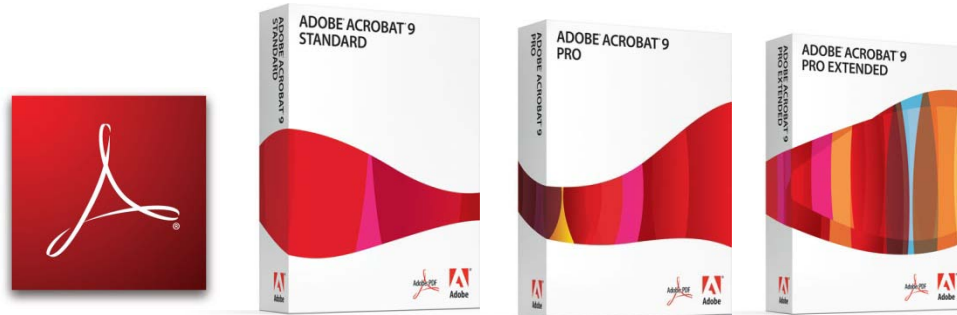
Adobe Acrobat 9 Accessibility Overview

- All products in the Acrobat family, Reader, Acrobat Standard, and Acrobat Professional work with conventional assistive technology products such as the popular screen readers JAWS, NVDA and Window Eyes.
- All of the Acrobat products also have built in accessibility features such as Read Out Loud speech synthesis, the ability to control the contrast between background and text, and the ability to provide a large type display using the Reflow feature.
- Pro versions provide authors the ability to validate and create accessible PDF documents and forms from a variety of original sources including scanned paper documents.



Product Features: Lowering Barriers to Accessibility

- Works in Conjunction with Conventional Assistive Technology
 - Screen Readers:
 - Windows: IBM Home Page Reader, JAWS, SuperNova (Reader / Magnifier), Window-Eyes
 - Linux: Orca
 - Mac OS: VoiceOver
 - Voice Recognition: Dragon NaturallySpeaking (Windows)
 - Screen Magnifiers: Lunar, ZoomText (Windows)
- Built-in Features in Adobe Reader 9 and all versions of Adobe Acrobat 9 Mean There is Accessibility without Additional Software
 - Incorporates Operating System Accessibility Features
 - Read Out Loud, Reflow, High Contrast View, Autscroll, Accessibility Setup Assistant

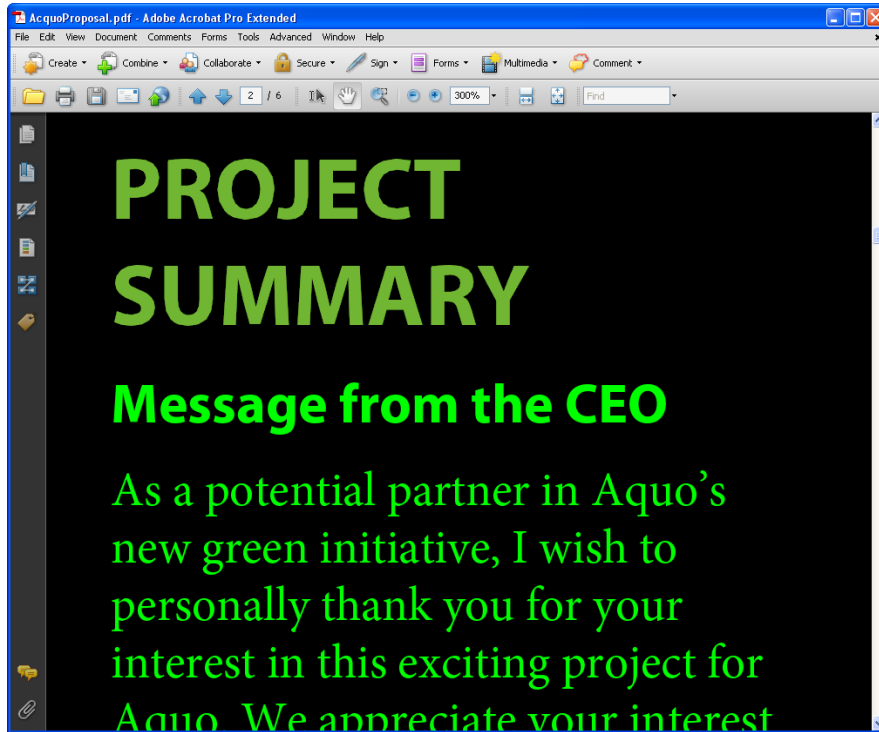


Product Features: Providing Accommodation for a Variety of Disabilities

- Accommodation Achieved With or Without 3rd Party Assistive Technology
 - Blindness (Text to Speech functionality: Read Out Loud and Screen Reader Compatibility also support for Braille output – refreshable keyboards, Braille embossers)
 - Low Vision (Text to Speech functionality, Support for Magnification and Large Type Display: Reflow, High Contrast Viewing, Read Out Loud, Screen Magnifier Compatibility)
 - Limited Mobility (Autoscroll, numerous keyboard equivalents, compatibility with alternate input devices, Support for Voice Recognition - Dragon, ViaVoice)
 - Cognitive (Read Out Loud, Compatibility with TextHelp's PDFALoud which highlights content as it is being spoken)



Product Features: Built In Accommodations



- Export to Other File Formats
 - Reader: Save as Accessible Text
 - Acrobat: Export to:
 - Word Document
 - Rich Text Format (RTF)
 - HTML
 - XML
 - Text
- High Contrast View
 - Alters text and background colors
 - Edit > Preferences (Ctrl-K)
 - Select Accessibility
 - Check "Replace Document Colors"

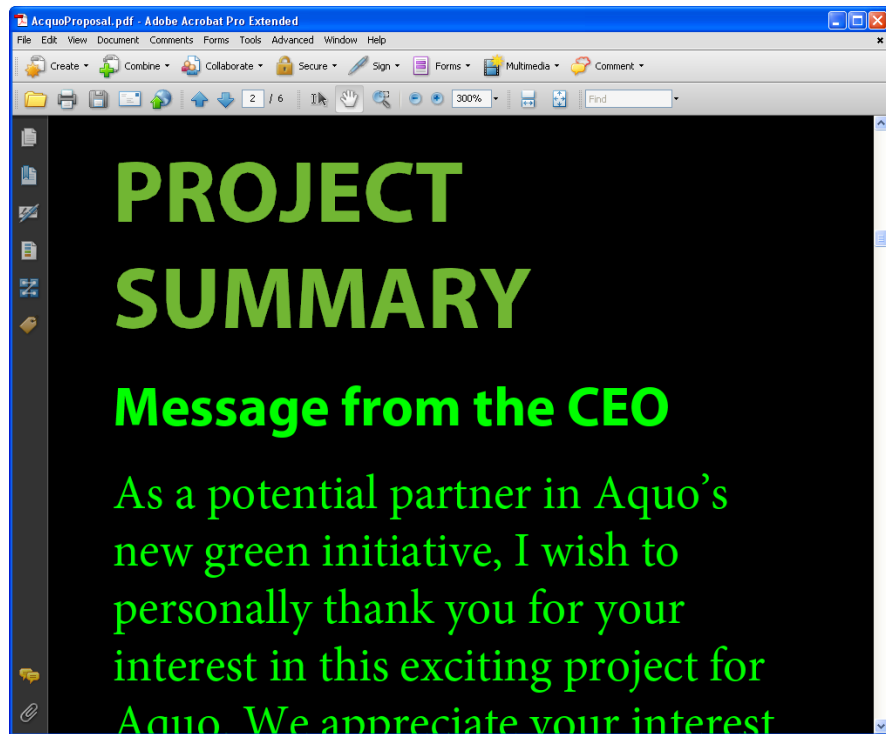
Product Features: Built In Accommodations



Read Out Loud – Reads to You

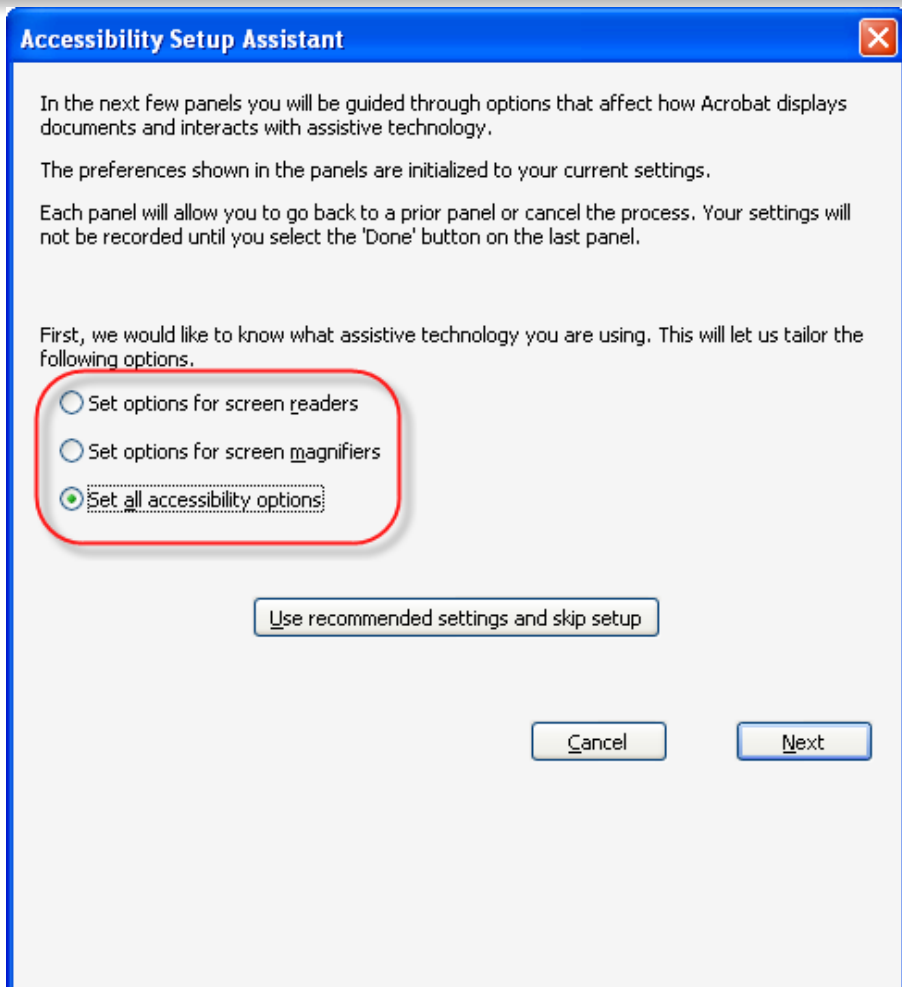
- View > Read Out Loud > Activate Read Out Loud
 - Shift + Ctrl + Y Activates Read Out Loud
 - Shift + Ctrl + V reads the current page
 - Shift + Ctrl + B reads the entire document
 - Shift + Ctrl + C pauses reading
 - Shift + Ctrl + E stops reading

Product Features: Built In Accommodations



- Form Fields
 - Edit > Preferences (Ctrl +K) select Reading and select "Read Form Fields"
- Reflow – Large Type Display
 - View > Zoom > Reflow
 - Ctrl + 4
 - Alt + V + Z + R

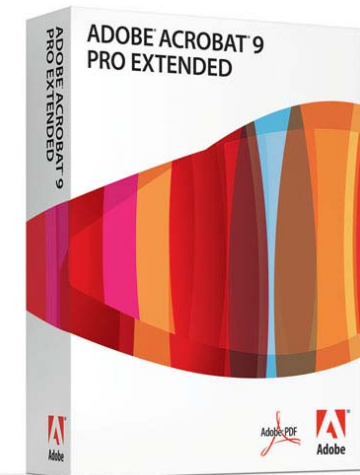
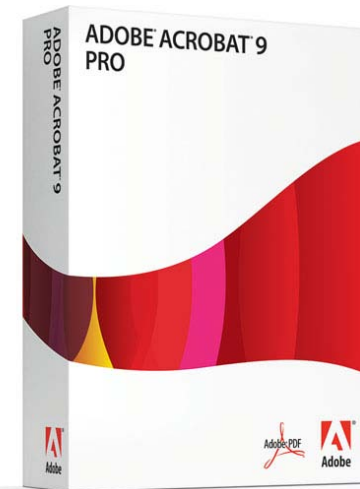
Product Feature: Optimize Adobe Acrobat / Adobe Reader for Best Results



- Accessibility Setup Assistant Configures the User Agent for Optimal Performance with Assistive Technology
- Adobe Acrobat
Advanced > Accessibility > Setup Assistant
- Adobe Reader
Help > Accessibility Setup Assistant

Adobe Acrobat Pro Versions Accessibility Details

- Compatible with Conventional Assistive Technology
- Has Built in Accessibility Accommodations
 - Read Out Loud
 - High Contrast
 - Reflow
 - Autoscroll
 - Accessibility Setup Assistant
- Facilitates Accessible Authoring
 - OCR
 - Add Tags
 - Touch Up Read Order Tool
 - Accessibility Checker



The File Format: Accessibility Requirements

1

2 ACCESSIBILITY AT ADOBE®
GOING BEYOND STANDARDS
TO ACHIEVE ACCESS FOR ALL

3 Adobe Systems, an industry leader for accessibility, supports the creation of great online experiences by encouraging designers and developers to produce rich, engaging content that is accessible to all.

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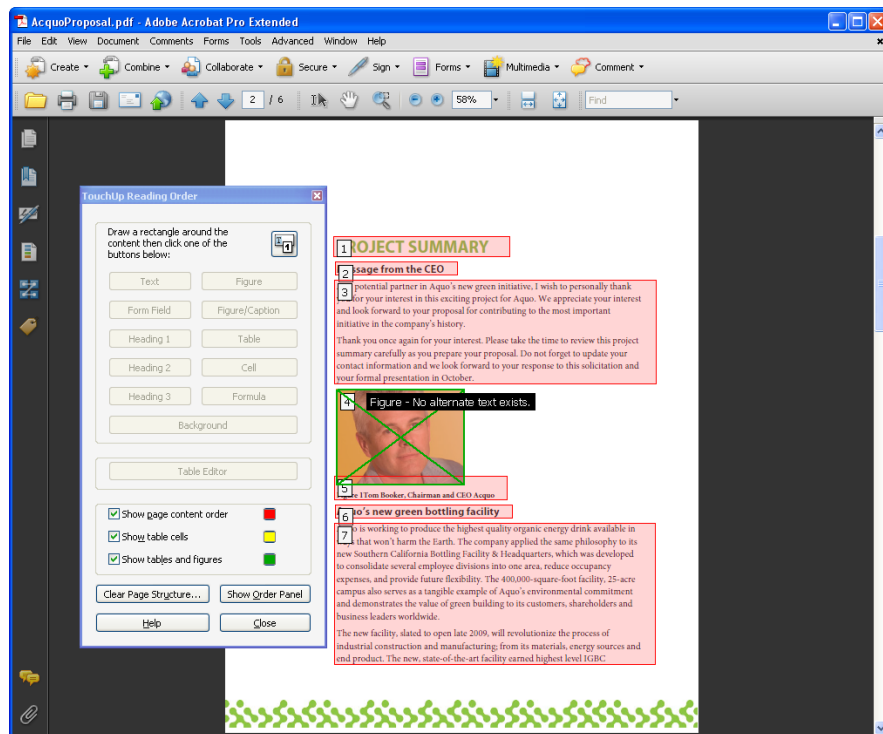
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Adobe

- **Logical Reading Order –** Does it make sense when you listen to it?
- **Alternate Text Descriptions for Non-Text Elements –** Have alternate text descriptions been added to graphics for those with visual disabilities?
- **Logical Tab Order (Forms) –** Can you navigate the form in a way that makes sense?
- **Short Descriptions (Forms) –** Are audible short descriptions added to form fields for those with visual disabilities?

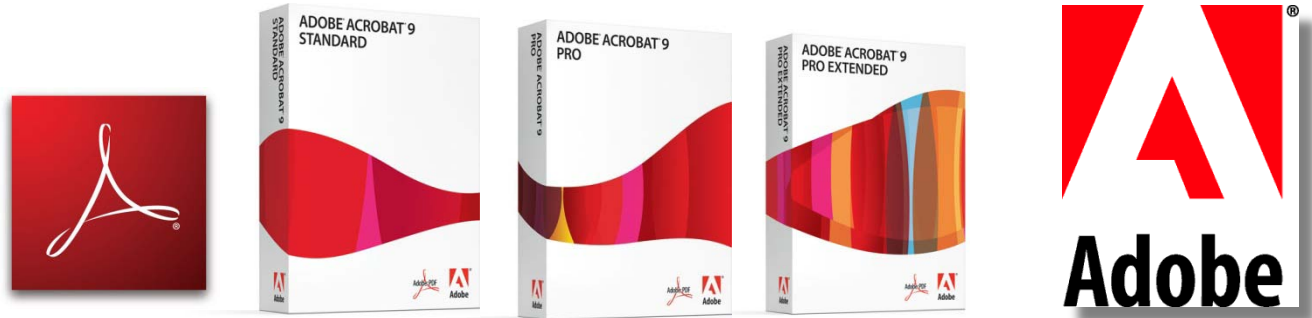
Product Feature: Acrobat TouchUp Read Order Tool



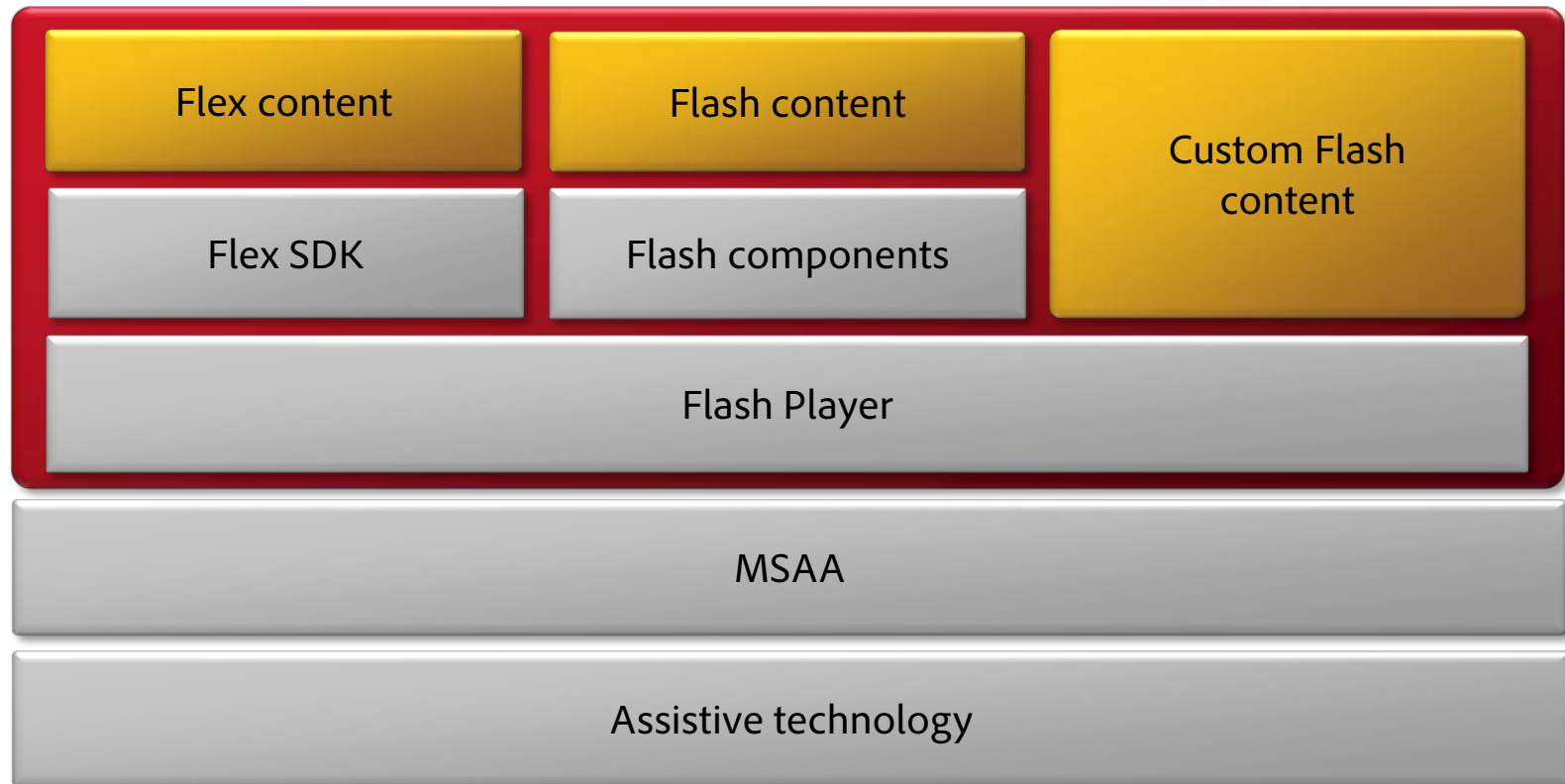
- TouchUp Reading Order Tool in Acrobat 9 Professional for PDF Accessibility Repair
 - Review and correct reading order
 - Review and correct basic tagging issues
 - Add Alternate Text to Figures
 - Add Short Descriptions to Form Fields
 - Tag simple tables quickly and easily
- Benefits
 - Quick and easy to detect tagging errors
 - Easy to fix most common errors

The Future for Acrobat and Reader

- IAccessible2 support in the next major version
- Support for Portfolios



Flash accessibility architecture



Common problems with Flash content

- “Flash movie start. Flash movie end.”
- Support on non-Windows platforms

The Future for Flash Player and Flex

- IAccessible2 support in the next major version of Flash Player
- Support for WAI-ARIA in the following version of Flex

