## Square One

[Accessible vs. Usable](https://www.w3.org/WAI/fundamentals/accessibility-usability-inclusion/)

## Acronyms

* [A11y](https://en.wiktionary.org/wiki/a11y) : “Accessibility” with the middle 11 letters made into a number in order to shorten the word
* [AT](https://www.atia.org/at-resources/what-is-at/) : Assistive or adaptive technology
* [504/508](https://www.ada.gov/cguide.htm#anchor65610) : Sections of the Rehabilitation Act
* [ADA](https://www.ada.gov/) : Americans with Disabilities Act
* [AODA](https://www.levelaccess.com/resources/accessibility-ontarians-disabilities-act-aoda/) : Accessibility for Ontarians with Disabilities Act
  + [ACR](https://www.ontario.ca/page/completing-your-accessibility-compliance-report) : Accessibility Compliance Report
* [W3C](https://www.w3.org/) : World Wide Web Consortium
  + [WAI](https://www.w3.org/WAI/) : Web Accessibility Initiative
    - [WCAG 2.0 & 2.1](https://www.w3.org/WAI/intro/wcag) : Web Content Accessibility Guidelines
      * Levels A, AA, & AAA
      * [POUR](https://webaim.org/articles/pour/) : Perceivable, Operable, Understandable, Robust
    - [ATAG](https://www.w3.org/WAI/standards-guidelines/atag/) : Authoring Tool Accessibility Guidelines
    - [UAAG](https://www.w3.org/WAI/standards-guidelines/uaag/) : User Agent Accessibility Guidelines
    - [ARIA](https://www.w3.org/TR/2017/REC-wai-aria-1.1-20171214/) : Accessible Rich Internet Applications Suite
    - [ACT](https://www.w3.org/WAI/standards-guidelines/act/) : Accessibility Conformance Testing
    - [EARL](https://www.w3.org/WAI/standards-guidelines/earl/) : Evaluation and Report Language
* [LMS](https://en.wikipedia.org/wiki/Learning_management_system) : Learning Management System (Canvas, Moodle, D2L, Blackboard)
* [CMS](https://en.wikipedia.org/wiki/Content_management_system) : Content Management System (OmniUpdate, Wordpress, Plone, Jadu)
* [TTS](https://en.wikipedia.org/wiki/Speech_synthesis) : Text-to-Speech
  + Screen reader software
  + Cognitive disability software
  + Assistive communication devices
* [STT](https://en.wikipedia.org/wiki/Speech_recognition) : Speech-to-Text
  + Speech recognition & some voice control (Dragon, virtual assistants, Google Docs, OS dictation feature)
    - [STT prices and features](https://zapier.com/blog/best-text-dictation-software/#software)
* [VPAT](https://www.section508.gov/content/sell/vpat) 2.2 : Voluntary Product Accessibility Template
* [UDL](http://www.cast.org/our-work/about-udl.html) : Universal Design for Learning
* [UDI](https://www.washington.edu/doit/equal-access-universal-design-instruction) : Universal Design for Instruction
* [STE(A)M](https://www.edweek.org/tm/articles/2014/11/18/ctq-jolly-stem-vs-steam.html) : Science, Technology, Engineering, Arts, Mathematics
  + [LaTeX](https://www.latex-project.org/)
  + [MathML](https://www.w3.org/Math/)
  + [MathJax](https://www.mathjax.org/)
  + [mhchem](https://docs.moodle.org/35/en/Chemistry_notation_using_mhchem)
* Document types
  + [ePub](http://epubtest.org/) : electronic publication
  + PDF : portable document format
  + DOCX : Microsoft Word’s 2007-present XML-based file format (required for the [Office Accessibility Checker](https://support.office.com/en-us/article/use-the-accessibility-checker-to-find-accessibility-issues-a16f6de0-2f39-4a2b-8bd8-5ad801426c7f) to work)
  + [DAISY](http://www.daisy.org/) : Digital Accessible Information SYstem
  + [BRF](http://www.brailleauthority.org/formats/formats2016.html) : Braille Ready Format
  + TXT : Text-only document (basic, no-frills document created by Notepad, TextEdit, etc.)
  + KES : File format created by and used by Kurzweil software

## Semantic structure (aids logical navigation - consistency matters)

* Title (different programs’ metadata title)
  + [PDF](https://www.adobe.com/accessibility/products/acrobat/pdf-repair-add-document-properties.html)
  + [Web](https://www.w3.org/WAI/tips/writing/#provide-informative-unique-page-titles)
* Reading order
  + [PowerPoint’s Selection Pane](https://support.office.com/en-us/article/make-your-powerpoint-presentations-accessible-6f7772b2-2f33-4bd2-8ca7-dae3b2b3ef25#bkmk_macreadingorder)
  + PDF ([TURO](https://webaim.org/techniques/acrobat/acrobat#touchup) v. [tag order](https://webaim.org/techniques/acrobat/acrobat#tags_pane))
  + [DOM](https://developers.google.com/web/fundamentals/accessibility/semantics-builtin/the-accessibility-tree) : Document Object Model
* [Tab order](https://webaim.org/techniques/keyboard/tabindex)
* Headings (H1, H2, H3, etc.) – a hierarchy
  + [Paragraph styles](https://webaim.org/techniques/word/#headings)
  + [Nesting](https://webaim.org/techniques/word/#headingsHierarchy)
* Headers
  + Page
    - [Webpage head area](https://www.w3schools.com/html/html_head.asp)
    - [Webpage header area](https://www.w3schools.com/css/css_website_layout.asp) (Skip links often skip past the website header)
    - [Document headers](https://support.office.com/en-us/article/add-a-header-or-footer-b87ee4df-abc1-41f8-995b-b39f6d99c7ed) (These are almost always ignored by AT)
  + Table
    - [Web tables](https://webaim.org/techniques/tables/data#th)
    - [MS Office tables](https://webaim.org/techniques/word/word2016win#tables2016)
* Footers
  + [Webpage](https://www.w3schools.com/css/css_website_layout.asp)
  + [Document](https://support.office.com/en-us/article/use-a-screen-reader-to-create-headers-or-footers-in-word-7a61ea68-8cf2-48eb-a693-fda2bb7f311f" \l "picktab=mac)
* Hyperlinks ([self-described links](https://webaim.org/techniques/hypertext/link_text#text))
  + [URL](https://webaim.org/techniques/hypertext/link_text#urls) : Uniform Resource / Reference Locator
  + [Skip links](https://webaim.org/techniques/screenreader/#skip) (Often used to skip past the website header)
* [Lists](https://webaim.org/techniques/semanticstructure/#lists)
  + Ordered
  + Unordered
  + Multi-level/Nested
* [Line breaks / extra spaces](https://support.office.com/en-us/article/make-your-word-documents-accessible-d9bf3683-87ac-47ea-b91a-78dcacb3c66d#bkmk_mactextformat)
* Tags
  + [PDF tags](https://www.adobe.com/accessibility/products/acrobat/pdf-repair-repair-tags.html) ([TURO](https://webaim.org/techniques/acrobat/acrobat#touchup) v. [tag order](https://webaim.org/techniques/acrobat/acrobat#tags_pane))
  + [Web tags](https://developers.google.com/web/fundamentals/accessibility/semantics-aria/)
  + Images (alt text)

## Visual information

* [Alt text](https://webaim.org/techniques/alttext/#basics) : Alternative text descriptions added to images, charts, shapes, tables, etc.; similar implementation across apps (limited to about 140 characters)
  + [Complex images](https://www.w3.org/WAI/tutorials/images/complex/)
    - Long description (insert into body to benefit all, but add alt to point screen reader users appropriately)
    - D-links (old way of linking to “longdesc”)
  + [Null alt/decorative image](https://webaim.org/techniques/alttext/#decorative) & [artifacts](https://webaim.org/techniques/acrobat/acrobat#artifacts)
  + [Real text v. graphics of text](https://webaim.org/techniques/fonts/#realvs)
* [Contrast value](https://www.w3.org/WAI/WCAG21/Understanding/contrast-minimum.html) (7:1 AAA; 4.5:1 AA)
  + [Color schemes & inversion](https://support.apple.com/en-us/HT201899)
* Font
  + [OpenDyslexic](https://www.opendyslexic.org/)
  + [Serif v. Sans Serif](https://webaim.org/techniques/fonts/#readability)
  + [Size](https://webaim.org/techniques/fonts/#font_size)
    - Regular (<18 pt.)
    - Large (18 pt. or greater)
* [Audio description (AD)](http://www.acb.org/adp/ad.html)
  + [Static media vs. live](http://www.acb.org/adp/tech.html)
* [Media player](https://www.w3.org/2017/04/xsmedia-tute/page7.html)

## Auditory information

* [Transcript](https://www.w3.org/2008/06/video-notes#q1)
  + Static (viewed in a webpage or document)
  + [Live transcript](https://www.w3.org/TR/UNDERSTANDING-WCAG20/media-equiv-live-audio-only.html)
* [Captions](https://webaim.org/techniques/captions/#captions)
  + Closed
    - [Subtitles](https://en.wikipedia.org/wiki/Subtitle_(captioning)) (not necessarily captioning for viewers who are deaf and hard of hearing)
  + Open
  + [Live/Real-time](https://webaim.org/techniques/captions/realtime)
  + [Automatic](https://support.google.com/youtube/answer/6373554?hl=en) (speech recognition by video services)

## Motor assistance

* [Common motor assistance devices and technologies](https://webaim.org/articles/motor/)

## Cognitive assistance

* [Common accommodations for cognitive disabilities](https://webaim.org/articles/cognitive/design)
* Audio Notetakers
  + [Sonocent](https://www.sonocent.com/en-us/students-with-disabilities)
  + [Microsoft OneNote](https://support.office.com/en-us/article/record-audio-or-video-notes-b90fa4a2-253b-47ec-99bd-c9b368268465)
  + [Livescribe pen](http://www.livescribe.com/en-us/solutions/learningdisabilities/)

## Speech assistance

* [AAC](https://en.wikipedia.org/wiki/Augmentative_and_alternative_communication) : Augmentative and alternative communication
* [EFD](https://en.wikipedia.org/wiki/Electronic_fluency_device) : Electronic Fluency Devices (help reduce stuttering)
  + DAF : Delayed Auditory Feedback
  + FAF : Frequency Altered Feedback