

#### **AGENDA**

Campus Welfare Committee November 8, 2016 1:00pm – 2:00pm Day Hall 316

- I. Call to Order
- II. Review of Web Accessibility Resolution
  - 1. Draft of Web Accessibility Policy (2009)
  - 2. IT Services
    - i. Web Accessibility Trainings (<u>itnews.cornell.edu/web-accessibility-training</u>)
    - ii. SensusAccess (<u>chronicle.cornell.edu/stories/2016/10/new-service-converts-range-media-accessible-formats</u>)
    - iii. Section 508 Guidelines:
      (it.cornell.edu/services/webconsulting/about/508guidelines.cfm)
  - 3. Understanding Section 508: (<a href="www.section508.gov/">www.section508.gov/</a>)
  - 4. SUNY Web Accessibility (www.suny.edu/web-accessibility/)

#### III. Tobacco-Free Campus Referendum

- 1. Referendum Process Outline
- 2. Referendum Language & Scenario Outline
- 3. Educational Campaign Design
- IV. DDD (Deadlines, Dates, Deliverables)
- V. Questions
- VI. Adjournment



### **UA RX: Cornell Commitment to Web Accessibility**

- 2 Abstract: This resolution calls for the University to adopt Web Content Accessibility Standards for
- 3 all new websites and require remediation for conformance by legacy websites.
- 4 Sponsored by: Jeramy Kruser, Employee; CIC Chair, University Assembly; Ulysses Smith,
- 5 Employee; CWC Chair, University Assembly;
- 6 *Reviewed by:* Campus Welfare Committee, MM/DD/YYYY
- Whereas, worldwide there are 285 million people with some sort of visual impairment, 275 million
- 8 people with moderate-to-profound hearing impairment, and many more have physical, speech,
- 9 cognitive, and neurological disabilities or a limited understanding of English; and

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Whereas, in 1990 the Americans with Disabilities Act (ADA), a federal civil rights law that prohibits discrimination against people with disabilities in areas of public life, was passed; and

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Whereas, under Section 508 of the Rehabilitation Act of 1973, a federal law which provides action to the promise of the ADA, federal agencies are required to make their electronic and information technology accessible to people with disabilities, and standards are provided; and

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Whereas, the Cornell motto reflects our inclusive goal of "... any person ... any study"; and

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Whereas, The University's Equal Education and Employment Opportunity Statement declares that Cornell is "committed to assisting those persons with disabilities who have special needs related to their educational pursuit or employment" and prohibits discrimination on this basis; and

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Whereas, The Campus Master Plan states that, "Cornell's campus shall contain a diversity of inviting, accessible and safe places, for social and culture interaction, recreation, athletics, and passive enjoyment by faculty, staff, students and visitors..."; and

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Whereas, Cornell's websites are one of our most visible communications tools, and any site on the Cornell.edu domain is a representation of the university, reflecting our competency, values, and standards; and

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Whereas, in order to meet our stated institutional commitment to accessibility, our web administrators, content providers, and developers need institutional support and a set of published standards to work from when creating new web sites and remediating legacy sites; and

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Whereas, an inaccessible website can exclude faculty, staff, prospective and existing students, and their families, due to their abilities or the method they use to access the web; and

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- Be it therefore resolved, the Divisions of University Relations, Cornell Information Technologies, and Human Resources will set and publish a standard of accessibility for all websites on the Cornell.edu domain which will:
  - 1. Set a baseline standard to meet Section 508 1194.22 Standards, and to meet a minimum of 'A' level conformance with the current Web Content Accessibility Guidelines (WCAG)
  - 2. require all newly created sites to meet these standards
  - 3. require all legacy sites to be remediated for conformance upon any major update.

**Be it finally resolved,** the Divisions of University Relations and Cornell Information Technologies will:

- 1. Revise the Brand Book to include accessible templates for items including but not limited to presentations, videos, posters, and digital media;
- 2. Survey colleges, schools, and functional areas annually for their level of conformance, making the survey results available to the Assemblies.
- **3.** Provide guidance, incentive, access to training, and encouragement to all functional areas, aiming for the highest level of conformance with WCAG and Section 508 Standards in all possible cases.
- Adopted by Vote of the Assembly (\_\_-\_\_, 2016, Gabriel Kaufman Chair, University Assembly

# CORNELL UNIVERSITY POLICY LIBRARY

**DRAFT:** 

January 21, 2009

# Web Accessibility

#### POLICY 5.11

Volume: 5, Information
Technologies
Responsible Executives: Vice
President for Information
Technologies/Vice President for
Communications
Responsible Offices: Vice
President for Information
Technologies/Vice President for
Communications
Originally Issued:

#### **POLICY STATEMENT**

All Web pages within the Cornell University Web space, subject to exceptions enumerated in this policy, must be made accessible to the widest range of users, including those with the more common sensory, motor and cognitive disabilities, by adopting as a minimum all requirements of Section 508 of the Rehabilitation Act of 1973.

#### REASON FOR POLICY

Cornell University strives to attract the highest caliber of faculty, staff, and students. In addition, the university recognizes that the future will bring trends toward more accessible Web space design, to better serve Web users with and without disabilities. These factors, coupled with the university's overall commitment to a diverse and inclusive educational and work environment that anticipates a changing technological and regulatory environment, merit a comprehensive university policy on Web accessibility.

#### **ENTITIES AFFECTED BY THIS POLICY**

- All units of the university

#### WHO SHOULD READ THIS POLICY

- All members of the university community

#### WEB SITE ADDRESS FOR THIS POLICY

- This policy: www.policy.cornell.edu/

- University Policy Office: www.policy.cornell.edu

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#### Web Accessibility

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# RELATED DOCUMENTS

University Policies and Documents	Other Documents
University Policy 6.13, Disability Accommodation Process	Rehabilitation Act of 1973 (Pub. L. 93-112) Americans with Disabilities Act

Open Doors, Open Hearts, and Open Minds: Cornell's Statement on Diversity and Inclusiveness

Communications
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### **CONTACTS**

#### **Ithaca Camps Contacts**

Subject	Contact	Telephone	E-mail/Web Address
Policy Clarification	Director of IT Policy	(607) 254-3584	IT-policies@cornell.edu
	Director of Web Communications	(607) 255-1290	univcomm.cornell.edu/webcommunications

#### **Weill Cornell Medical College Contacts**

Subject	Contact	Telephone	E-mail/Web Address
Policy Clarification	PLEASE COMPLETE	(212) xxx-xxxx (212) xxx-xxxx	PLEASE COMPLETE

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### **DEFINITIONS**

Archival Web Site	A web site that is (a) intended to represent a historical snapshot of a course, research project, or other Web information, and (b) not used to gather or disseminate information about any current course, currently active research project, or current administrative function of the university.
Assistive Technologies	Adaptive, rehabilitative devices, whether acquired commercially or of the shelf, modified, or customized, that promote greater independence for individuals with disabilities by changing how these individuals interact with technology. Assistive technologies include special input devices, such as a head or foot mouse, and screen-reading software, which can read aloud for the user the details of material displayed on a monitor.
Central Administrative Unit	A unit that serves the entire university community in an administrative role.
Cornell Web Space	The entire collection of Web sites whose purpose for existence can b legitimately connected with Cornell University activities, including academic, research, and outreach activities. A Web site may reside on a non-Cornell Web server, or may not have a cornell edu domain name, but may still be considered part of the Cornell Web space.
Official Web Site	A web site that has been created or sponsored by the university, its schools, departments, units, or other administrative offices and that is used in the process of conducting official University business. In addition, Web applications—both those developed in-house and thos purchased from outside vendors—are considered official.
Section 508 Standards for Accessibility	Web design standards established through federal law and regulation under the Rehabilitation Act of 1973. See the "Web Accessibility Standards" Section of this document for a detailed list of those standards.
Unit	A college, department, program, research center, business service center, office, or other operating unit.
Unofficial Web Site	A site published by an individual such as a student or a university employee, or by a non-university organization, which is hosted on university servers but does not conduct university business. These include:
	Student, faculty, and staff personal pages
	<ul> <li>Pages created by students to fulfill academic requirements that do not fall within one or more of the categories of "official websites"</li> </ul>
	<ul> <li>Sites that reside on Cornell University servers that do not conduct university business, e.g., mirror sites</li> </ul>
	<ul> <li>Pages hosted on ResNet servers that do not fall within the official Web site categories listed above</li> </ul>
	<ul> <li>Alumni Class and Organization Pages</li> </ul>
	<ul> <li>Student organization pages, including pages for all recognized Greek chapters</li> </ul>
	Affiliate Web pages
Web Accessibility	The practice of making web pages more accessible to a wide range of users by applying specific design standards and programming that

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# **DEFINITIONS**, continued

	offers alternative forms of access and that enables assistive technologies to function effectively.
Web Application	Any software that delivers dynamically generated content intended to be rendered in a web browser.
Web Page	A (web) document rendered by a markup language, (e.g., xhtml, html), independent of its transmission protocol (e.g., http) and user agent (browser/reader).
Web Site	Any collection of Web pages residing under a single domain and whose content is centered around a single organizational unit or workgroup, a university course, a research or business activity, or an area of academic content.
Web Site Redesign	Any phase during the development or maintenance of a Web site in which significant alteration or update is made to the visual design, institutional branding, information architecture, or technical functionality of the site. Minor content updates are not considered Web site redesign projects.

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# RESPONSIBILITIES

Unit Head	When possible, provide necessary support within the unit for compliance with this policy.
Cornell Information Technologies (CIT)	Provide education, training, and support resources to university community members on compliance with this policy
Office of Web Communications (OWC)	Provide education, training, leadership, guidance, and support resources to university community members on compliance with this policy
Procurers of Web Development Software	Consider Web accessibility issues when purchasing software or licenses.
Web Developer (or anyone responsible for the creation, review, or update of a Web page)	Design or revise web sites in accordance with this policy.

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#### **PRINCIPLES**

#### Overview

The federal government requires its agencies to comply with the Rehabilitation Act of 1973, 29 U.S.C. 794d, Section 508, subpart B 1194.22 "Web-based intranet and internet information and applications" ("Section 508"). The law does not require compliance because Cornell University is a private entity. Nonetheless, Cornell aspires to make its Web pages as accessible as is practicable in keeping with its founding, and enduring, philosophy of accessibility in its many forms. Toward that end, this policy sets Web accessibility standards for Web sites in the Cornell University Web space.

Currently, the two most widely accepted standards for Web accessibility are the aforementioned Section 508 and the Web Content Accessibility Guidelines (WCAG) of the World Wide Web Consortium (W3C). Cornell has chosen Section 508 standards because they may well represent the standards that Cornell may be expected to adopt if compliance branches out to private educational institutions.

This policy divides the Cornell University web space into sectors for the purpose of creating zones of compliance, exceptions, and timelines for implementation.

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#### **PROCEDURES**

Official Cornell Web Space to Which Web Accessibility Requirements Will Apply The following areas of Cornell Web space are required to adopt Section 508 standards:

#### Administrative

- Central Administrative Units www.cornell.edu and central administrative unit sites
- *Academic Units* college and department sites constructed for public information and university business functions

#### Academic

- Teaching—Course sites; Course collaboration tools; Pages created by students to fulfill academic requirements which also fall within one or more of the official categories listed here
- Research Research results presented to the public on line; human participant
  sites created for the purpose of conducting research by collecting data (please
  note the exemptions, listed below, for research collaboration sites and for sites
  created to conduct research or experiments in developing or utilizing new
  technologies and applications for the Web.)
- Outreach Outreach program sites not designed for collaboration

Cornell Web Space to Which Web Accessibility Requirements Will NOT Apply

◆ Note: There may

exceptions, as noted

be additional

in Section 508.

The following areas of Cornell Web space are not required to adopt Section 508 standards:

- 1. Unofficial Web sites (see the "Definitions" Section of this document)
- 2. Vendor-obtained web applications for which no accessible functionally equivalent alternative exists
- 3. Inter-institution archives, databases, and collections.
  - ◆ Note: If these sites or Web pages fulfill any university purpose other than the conduct of research (example: also serve as a course Web page), then alternate accessible sites or Web pages must be provided.
  - 4. Sites and Web pages created to conduct research or experiments in developing or utilizing new technologies and applications for the Web
  - 5. Sites and Web pages created to experiment with new workflow processes that involve Web tools

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#### PROCEDURES, continued

- ◆ **Note**: Once a tool moves beyond an experiment and becomes an accepted part of a workflow process, that tool must comply with this policy.
- 6. Whole-course capture sites (automated videotaping or audio recording of every class session)
- 7. Any site intended for use by fewer than 25 people
- 8. Archival sites
- 9. Undue burden: compliance with this proposed policy would interfere significantly with the site owner's teaching, research or public service mission
  - ◆ **Note**: Site owners are asked to make a good faith effort at evaluating whether a site qualifies for an undue burden; no documentation is necessary.

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### WEB ACCESSIBILITY REQUIREMENTS

For non-exempted Cornell Web space, the following will be required of Web developers. This list is taken *verbatim* from the Section 508 provisions, which can be found at www.section508.gov/Web.

- a. A text equivalent for every non-text element shall be provided (examples: via "alt," "longdesc," or inelement content).
- b. Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.
- c. Web pages shall be designed so that all information conveyed with color is also available without color. For example, from context or markup.
- d. Documents shall be organized so they are readable without requiring an associated style sheet.
- e. Redundant text links shall be provided for each active region of a server-side image map.
- 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.
- g. Row and column headers shall be identified for data tables.
- 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.
- i. Frames shall be titled with text that facilitates frame identification and navigation.
- j. Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.
- 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.
- 1. When pages utilize scripting languages to display content or create interface elements, the information provided by the script shall be identified with functional text that can be read by assistive technology.
- 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).
- Online forms 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.
- o. A method shall be provided that permits users to skip repetitive navigation links.
- p. When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.

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WEB ACCESSIBILITY REQUIREMENTS, continued

#### **Notes:**

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- 1. Section 508 includes the following provision: "A text-only page, with equivalent information or functionality, may be provided to make a Web site comply [with Section 508 requirements], when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes." In short, providing a fully accessible, text-only alternative with equivalent information or functionality will satisfy accessibility requirements under this proposed policy.
- 2. This proposed policy does not cover the accessibility of sites outside Cornell University to which a Cornell University page might be linked. Sites outside the Cornell Web space containing required content for courses should be reviewed for accessibility before making the course assignments, and faculty will advise students of available accommodation for any inaccessible content assigned. In the case of equivalent content being available from multiple sources, faculty will give preference to the accessible alternative.

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#### Overview

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Web accessibility standards should be adopted as soon as practicable within the normal parameters of university operations. Risks that attach to a failure to adopt include potential future legal liabilities, impediments to forming effective collaboration with academic and non-academic partners (examples: research, government, corporate, and community), barriers in communication to external audiences (examples: prospective students, media, and the academic community), and dilution of the university's outreach mission.

#### **Timeline for Implementing Web Accessibility Standards**

Implementation Deadline	Web Page(s) or Site(s) to Comply
Within one year of promulgation	All new and redesigned <sup>1</sup> Web sites published by any university college, department, or program
Within two years of promulgation	All official administrative and academic instructional Web sites
Within three years of promulgation	All academic research and outreach Web sites
Within three years of promulgation	All large-scale Web applications developed completely within the university, by any university college, department, program, or unit
	All licensed or open source Web applications not purchased by Cornell but in use within the Cornell Web space
Within three years of promulgation, or upon the next renewal of contract with the vendor	All Web applications purchased from an external vendor <sup>2</sup> or obtained under contract with other institutions
Within five years of promulgation	All official Web sites (subject to exceptions)

TIMING FOR ADOPTION OF STANDARDS

<sup>&</sup>lt;sup>1</sup> As noted in the "Definitions" Section of this document, above, Web site redesign refers to any phase during the development or maintenance of a Web site in which significant alteration or update is made to the visual design, institutional branding, information architecture, or technical functionality of the site. Minor content updates are not considered Web site redesign projects.

<sup>&</sup>lt;sup>2</sup> If the vendor does not offer a compliant product, all market alternatives must be explored.

Cornell Policy Library

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ANDREW M. CUOMO GOVERNOR State Capitol P.O. Box 2062 Albany, NY 12220-0062 www.cio.ny.gov DANIEL C. CHAN
Acting Chief Information Officer
Acting Director of the Office of IT Services

New York State Information Technology Policy	No: NYS-P08-005
IT Policy:	<b>Updated:</b> 05/17/2010
Accessibility of Web-Based Information and Applications	Issued By: NYS ITS State Chief Information Officer Director Office of IT Services Policy Owner: Application Delivery Services

#### 1.0 Purpose and Benefits of the Policy

This policy establishes minimum accessibility requirements for web-based Information and Applications developed, procured, maintained or used by state entities. This policy revision supersedes all prior revisions to NYS-P08-005, originally released on August 1, 2008. The benefits of the policy will be a more fully inclusive state workforce and increased availability of governmental services to all members of the public.

### 2.0 Enterprise IT Policy Statement

Section 2 of Executive Order No. 117 provides the State Chief Information Officer, who also serves as director of the NYS Office for Technology, the authority to oversee, direct and coordinate the establishment of information technology policies, protocols and standards for State government, including hardware, software, security and business re-engineering. Details regarding this authority can be found in NYS ITS Policy NYS-P08-002, Authority to Establish State Enterprise Information (IT) Policy, Standards and Guidelines.

### 3.0 Scope of the Policy

This policy applies to all State government entities (as defined in NYS Executive order No. 117) when they develop, procure, maintain, or use web-based Information and Applications. This Policy is based on Federal Section 508 Standards, Subpart B, section 1194.22 and Subpart C, section 1194.3, which the federal government developed in compliance with Section 508 of the Rehabilitation Act of 1973, as amended 29 U.S.C. § 794 (d). This policy only applies to the standards that were in effect at the time this policy is published. ITS reserves the right to modify,

supplement or otherwise revise, rescind or archive this policy when new Section 508 standards come into effect.

#### 4.0 Policy Statement

Web-based information and applications shall be compliant with certain accessibility standards (noted in the table below) developed by the Federal government in compliance with Section 508 of the Rehabilitation Act of 1973, as amended 29 U.S.C. § 794 (d).

Section 508 Standards	
Subpart B, section	Web-based Intranet
1194.22	and Internet Information
	and Applications
Subpart C, section	Functional Performance
1194.31	Criteria

#### Third Party Web-based Information and Application Development

On and after the effective date of this policy, all solicitation documents, contracts and any amendments hereto executed on and after such date shall include the following clause:

Any web-based information and applications development, or programming delivered pursuant to the contract or procurement, will comply with New York State Enterprise IT Policy NYS-P08-005, Accessibility of Web-Based Information and Applications as such policy may be amended, modified or superseded, which requires that state agency web-based information and applications are accessible to persons with disabilities. Web-based information and applications must conform to New York State Enterprise IT Policy NYS-P08-005 as determined by quality assurance testing. Such quality assurance testing will be conducted by (state agency name, contractor or other) and the results of such testing must be satisfactory to (state agency name) before web-based information and applications will be considered a qualified deliverable under the contract or procurement.

The above clause will also apply to the extent that a state agency contracts with a public or private entity, and such contract requires the creation, development, implementation, or hosting of webbased information or applications on behalf of, or for, a state agency. The requirement of this part specifically includes the outsourcing of any of the services identified in this part.

However, portions of an Intranet, the Internet or an extranet that are outside the control of the state agency or the third-party will not be affected.

#### **Exemptions**

If making specific web-based information and applications accessible in compliance with this policy would cause a *fundamental alteration* in the service, program, or activity, or would result in an *undue* 

financial and administrative burden such content may be exempt from this policy. Any state agency making a determination of fundamental alteration or undue financial and administrative burden under this policy will document such determination and maintain such documentation. In the event of an exemption, the state agency will identify the information or services subject to such determination on the relevant web page(s) and specify the alternative method for obtaining such information or services. Nothing in this policy alters a state agency's independent authority and responsibility to determine what constitutes a fundamental alteration or undue financial and administrative burden.

ITS may request to review any determinations of exemption from this policy. Such review may include, but is not limited to, review of the technical and business analyses, and other project documentation, technologies or systems which are the subject of this policy or any applicable standards.

#### **5.0 Policy Compliance**

The policy goes into effect on 05/17/2010. To assure compliance with this policy agencies are required to:

- Designate a point of contact for accessibility of web-based Information and Applications.
- Clearly post an "accessibility" link on the agency Home Page. The linked page should specify who to contact with questions about the site's accessibility and accessibility of any other web-based application (s) under the control of the agency.
- Test the web-based Intranet and Internet information and application for compliance as new
  web-based information and application is made available and all public facing information and
  applications on an annual basis. ITS may periodically request a review of any documentation
  and information regarding the status the accessibility of an agency's public facing web-based
  information and applications, including content posted on social networking sites.
- Document receipt of and responses to any and all complaints regarding accessibility of the agency's web-based information and applications. In addition, agencies must document instances of agency non-compliance with this policy due to "undue burden" or "fundamental alteration" in the nature of the product or application. ITS may periodically request a review of this documentation.

### **6.0 Definitions of Key Terms**

**Web-based information and applications** refers to any information or application that is accessed via a web-browser over a network such as the *Internet or an intranet*. The term may also mean a computer software application that is hosted in a browser-controlled environment or coded in a browser-supported language combined with a browser-rendered markup language and reliant on a common web browser to render the application executable.

**Fundamental Alteration** will mean a major change or modification of the critical function or nature of a program or service.

**Undue Financial or Administrative Burden** will mean significant difficulty or expense. In determining whether an action would result in an undue burden, *state government* entities must consider all resources available for use in the funding and operation of the service, program, or activity.

A complete listing of defined terms for NYS Information Technology Policies, Standards, and Best Practice Guidelines is available in the "NYS Information Technology Policies, Standards, and Best Practice Guidelines Glossary (<a href="http://www.its.ny.gov/policy/glossary.htm">http://www.its.ny.gov/policy/glossary.htm</a>)."

#### 7.0 ITS Contact Information

Submit all inquiries and requests for future enhancements to the policy owner at:

Policy Owner
Attention: Application Delivery Services
New York State Office of the Chief Information Officer and Office for Technology
State Capitol, ESP, P.O. Box 2062
Albany, NY 12220

Questions may also be directed to your ITS Customer Relations Manager at:

<u>Customer.Relations@cio.ny.gov</u>

The State of New York Enterprise IT Policies may be found at the following website: http://www.its.ny.gov/tables/technologypolicyindex.htm

# 8.0 Review Schedule and Revision History

Date	Description of Change
06/21/2004	Original Policy Release.
10/25/2006	Revised to add procurement language and to make minor changes to the standards.
08/01/2008	Revised to update the standards and eliminate any exceptions to the policy.
01/14/2009	NYS P08-005, NYS S08-005, and G06-001 Best Practice Guidelines are combined as one document numbered NYS P08-005.
01/27/2010	Made conforming changes to align with Webcasting Open Meetings Standard, NYS-S07-001; eliminated compliance schedule in A.11.1; A.11.2 and A.11.3. Compliance schedule has passed. Made similar conforming changes to Best Practice Guideline.
05/17/2010	Revised to replace customized NYS standard and instead to align with federal standards Section 508, Subpart B, section 1194.22 and Subpart C, section 1194.31.
9/10/2010	Revised to reflect change in reporting date from March 31 to December 31 of each year.
10/17/2011	Revision to Section 5.0.
09/12/2012	Reformatted and updated to reflect current CIO, agency name, logo and style.
09/12/2014	Scheduled review.

### **9.0 Related Documents**

NYS-S07-001 Webcasting Open Meetings Standard



# A Web Accessibility Primer: Usability for Everyone

XX Presenter Name
Presenter Title
Presenter Contact



# **Workshop Goals:**

- Better understand the barriers and frustrations people with disabilities face with inaccessible websites.
- Know what web accessibility means.
- Know how to make your websites and content more accessible.



# **Workshop Contents:**

- 1. Introduction to Web Accessibility
- 2. Cross-cutting Accessibility Strategies
- 3. Creating Downloadable Files
- 4. Making "Regular" Web Pages Accessible HTML
- 5. Beyond HTML: CSS, JavaScript, Plug-ins
- CommonSpot and BlackBoard
- 7. Choosing and Converting File Types



# Kinds of Disabilities and Web Use

- Visual
- Hearing



- Motor
- Cognitive/learning disabilities



Screen reader simulation:

www.webaim.org/simulations/screenreader-sim.htm

Motor (keyboard only) simulation: Visit a favorite site and set your mouse aside. Can you navigate using only your keyboard?



# Cornell's Approach:

- Reasons to make cornell.edu accessible:
  - Moral
  - Practical
  - Legal
- Accessible Design is Good Design
- Standards:
  - W3C Web Accessibility Initiative (WAI)
  - Section 508
- Cornell's policy, based on 508

# **Think Access**

- Art, not science.
- A way of thinking, not a mindless compliance checklist.
- Often no one right answer.

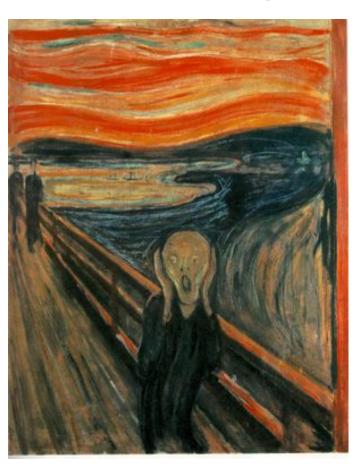




# How would you describe this painting?

# In these website contexts:

- Art course
- Psychology course
- Your favorite paintings
- Decorative image





# **Basic Design Principles:**

- a) Provide appropriate alternative text
- b) Provide headings for data tables
- c) Ensure users can complete and submit all forms
- d) Ensure links make sense out of context
- e) Caption video, provide transcripts for audio
- f) Make file downloads (e.g., Word docs) accessible

# **Basic Design Principles (cont'd)**

- g) Allow users to skip repetitive elements on the page
- h) Do not rely on color alone to convey meaning
- i) Make sure content is structured, clearly written and easy to read
- j) Make JavaScript accessible
- k) Design to standards



# **Evaluating for Access**

- There are tools for auto-checking site accessibility. Cornell will license one.
- Several free tools online.
- But only 7 of the 16 Section 508 standards can be automatically checked.
- Even these 7 only indicate areas to double check, don't provide answers.