Web Compliance Evaluations Strategies - All in One

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Scope of Work: Client evaluation services cycle (note: the following list was presented in a circle, so after #7 comes #1)

1. Goals of page or applications defined
2. Cases (functional goals) defined
3. Time analysis and management
4. Resource allocation
5. Define deficiencies
6. Evaluation Report delivery
7. Provide coding solutions or training as needed

Tools and plugins

* Fire Bug
* Wave
* CCA
* Juicy Studio
* Grayscale
* Web Developer Extension
* Compliance Sheriff
* Accessibility Evaluation Toolbar

The way you deploy an enterprise level tool is critical.

Evaluation protocols for compliance and usability testing

Level 1

* Review VPAT information for confusing or unclear remarks and explanation resulting in significant barriers
* Consider campus or system wide impact of the product
* If egregious issues found, conduct manual testing to validate claims or lack of accuracy based on impact considerations
* Share VPAT back to the vendor with additional comments

Level 2

* Limited criteria validation based on application type
  + Web form applications 9form fields labels, input mask, error handling)
  + Basic web pages (link & semantic requirements, tab order and images)
* Concurrently: run compliance sheriff level IV scan based on appropriate check points. Use this as a guide for manual checking.
* Recommendations and resources provided back

Level 3

* Criteria validation based on CSU ATI requirements and full UDC testing guide implementation.
* Comprehensive testing (all previously tested criteria plus usability testing)
* Applications have coding that requires additional research and reiterative testing of coding solutions validation.
* Detailed recommendations and resources provided (i.e. aria codes)
* Concurrently: Run Compliance Sheriff level IV scan with manual testing.
* As needed provide actual coding or work around for end user.

UDC evaluation categories

* Based on section 508/WCAG 2.0 U.D. principals
* Alternate descriptions
  + Images
  + Image maps
  + Scripting
* Multimedia
  + Interactive multimedia
  + Screen movement
* Structure
  + Semantic Requirements
  + Frames
  + Tables
* Comprehensive Visual Display
  + Style sheet
  + Color
* User Interface
  + Usability
  + Keyboard accessibility
  + Timed responses
  + Forms
  + Readability
* Navigation
  + Link requirements
  + Link display
  + Comprehensive link text
  + Broken links

High Impact Errors

* Web forms (legends and fieldset, ARIA techniques)
* Drop Down Navigation
* User interface, flow of navigation and error messaging handing
* Misaligned tab order based on page function
* Table for layout that do not linearize
* Lack of proper Data Tables mark up
* Lack of alternative description of meaningful images

Solutions

* Research, customize and produce alternative coding methodologies
  + Cross Browser/AT compatibility for vague link text e.g. Read More use <aria label><title> (this works for Firefox versions 17, 18, IE version 8 & 9, and Chrome version 24)

Drop down menu

* Challenges
  + Unable to implement accessible drop down into Drupal environment
    - Inaccurate keyboard focus
    - Unable to navigate with AT, especially JAWS and NVDA
    - Escape to exit the drop down menu, then it messes up.
* Coding methodologies
  + An accessible dropdown menu customized and designed by Universal Design Center at CSUN (see <http://www.csun.edu/universaldesigncenter/web-accessibility> for examples)
  + Issue with Google Chrome where the sub menu items are not announced to the end user
  + Aria techniques:
    - Application role
    - Menuitem role
    - Aria-expanded attribute
    - Aria-haspopup attribute
    - Aria-hidden along with CSS display:none; and jQuery .hide(); function
  + Title attribute

Accordion

* Challenges
  + No navigational instruction is provided
  + A.T. users are not aware of the region
* Coding Methodologies:
  + Aria methods to help user navigation and interaction
  + jQuery scripting to control user interaction
  + See <http://www.csun.edu/universaldesigncenter/> for an example
  + Documentation is available at: <http://www.csun.edu/universaldesigncenter/web-accessibility>

Sliding Banner

* Providing proper workaround where possible
* Slider banner with link text (difficult because the visual focus is on ‘read more’)
* Currently working on developing this so that the Read More links are accessible and actionable links

web forms (legends and grouping them as a field sets)

Compliance Sheriff planning and training

1. Compliance Sheriff campus management and distribution
2. Campus periodic scans and reports (campus Audit and quarterly scans)
   1. Monthly scans – selective checkpoints
      1. Separate Scan Group for every college/department
      2. E.g. Broken Links, alternative text, tables
      3. Scan: College of Ed – selective checkpoints
   2. Quarterly Scans – CSU ATI Accessibility Requirements
      1. Separate Scan Group for every college/department
      2. On specific dates
      3. Scan Naming Conventions: College of Education – ATI Requirements
      4. CSV files archived
   3. Campus Audit – CSU ATI Accessibility Requirements
      1. One big scan
      2. On specific dates
      3. Scan Naming Conventions: Campus Audit – ATI Requirements
      4. CSV files archived
3. Campus Training procedure (beginner, intermediate, advanced) overview
4. Campus Web Accessibility Training procedure overview
   1. Compliance criteria
      1. Section 508, WCAG 2.0 AA
      2. Success Criteria
   2. CSU ATI Accessibility Requirements
      1. Customized accessibility evaluation checkpoints
   3. Best practices
      1. Sharing lessons learned
   4. Universal design principals
      1. Accessibility and usability for all
5. Compliance Deputy overview and announcement
6. Departmental designees who directly work with the tools and manually test their own web environment