Maximize Strengths: Efficient & Effective Expert A11y Testing

Efficient/Effective Experiment 001

* Massive accessibility testing
* It needs to be less expensive, accurate, efficient, and sustainable

What can we test QA testers to do reliably? (organizations already have QA, just teach them to add accessibility as part of their tests)

Not the way to do it:

Automated -> Manual (desktop/mobile) -> Screen Reader -> Final Review

This creates HUGE duplication of efforts!

Also not good:

QA person 1 AVT1

Ally Expert 1 AVTS (desktop)

QA person 2 AVT3

Ally Expert 2 AVT2 (mobile)

QA Person 3 AVT Final

When you break up testing by the tool, it’s not working.

Challenges:

* Client & QA team didn’t recognize accessibility complexity
* Mixed resource expertise without training
* Duplication of effort
* Consistency
* Accuracy (untrained testing resulted in 9 – 15% accuracy)

Trinity Accessibility 101 Training Program

* Deque Way > Accessibility Assessments
  + 66 specific checkpoints for WCAG 2.0 A and AA
  + Spreadsheet of 66 checkpoints.
    - Link reference back to WCAG (1.1.1)
    - Link to “Deque Way” checkpoint the mental model (i.e. ‘look for active images’, ‘descriptive images’, ‘\_\_\_\_ images’)
    - The Deque Checkpoint Requirement (i.e. All linked images have descriptive alt text (alt attribute value, title attribute value, aria-label property or aria-labelledby property) that serves the same purpose and presents the same information as the linked image. What are the testing methodologies
    - Issue descriptions (i.e. the alterative text for \_\_\_\_ is missing, or the alternative text for \_\_\_\_ is not appropriate or meaningful.)

Proposed AVT Process

* AVT with mixed resources
  + QA person – concrete (auto/concrete manual tests/AT)
    - i.e. 3.1.1. Default page language
  + Accessibility expert – conceptual accessibility issues
    - i.e. 1.3.2 Meaningful Sequence
  + 17 of the 38 success criteria require some sighted assistance
    - 1.1.1 Non-Text content
    - 1.2.1 Pre-recorded audio-only and video-only
    - 1.2.2 captions (pre-recorded)
    - 1.2.3 Audio description or Media Alternative (pre-recorded)
    - 1.2.4 captions (live)
    - 1.2.5 audio descriptions (pre-recorded)
    - 1.4.1 use of color
    - 1.4.3 contrast (minimum)
    - 1.4.4 Resize text
    - 1.4.5 images of text
    - 2.1.1 keyboard
    - 2.1.2 Keyboard trap
    - 2.2.2 Pause, stop, or hide
    - 2.3.1 three flashes or below threshold
    - 2.4.7 Focus visible
    - 3.2.1 On focus
    - 3.2.2. On Input

In firefox advanced settings you need to cursor to track with screen changes