Testing 201
a11yoz.com/ict18-ppt

Dyslexia

Moderate vision impairment

Severe vision impairment

Epilepsy

Migraines

Physical impairment

Fibromyalgia

Multiple Sclerosis

Crohns Disease

PTSD

Aspergers

It's not just about vision impairments

Our Services

- Audits
- Mobile testing
- Building web sites
- CMS testing
- Accessible design
- Video accessibility
- User testing
- OS / browser testing
- Consultation
- Accessible documents

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Our Products

- OzPlayer
- OzART
- OzWiki
- A11y Voices
- Factsheets
- CCC Videos

More information:

www.accessibilityoz.com

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Questions to ask about testing

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Questions to ask about testing

- Who will do the testing?
- When will the testing be conducted?
- What will be tested?
- How will the testing be conducted?
- What testing tools will be used?
- How will the findings be presented?

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What is the aim of the testing?

- To find out if the site is accessible or not?
- To remediate any accessibility issues?
- To ensure there are no accessibility issues on launch?
- To address a user complaint?
- To address a DOJ complaint?

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Who will do the testing?

Choosing who will do the testing

Internal?

- Who has the skills required?

External?

- How to choose a consultancy

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When assessing RFQ responses

Consider an interview process where you can ask accessibility questions of developers to assess their knowledge, for example:

What are the main accessibility requirements for forms?

(A: visible field labels, coded with LABEL FOR and ID, HTML submit buttons, FIELDSETs with LEGEND elements for radio buttons and checkboxes)

What are the main accessibility requirements for data tables?

(A: TH or TH SCOPE or TH ID for table header cells, TD or TD HEADERS for table data cells, SUMMARY and CAPTION elements)

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When assessing RFQ responses

Consider providing a link to a page and asking them to provide the issues they would identify:

		PhD	MSc/Other
Active	Male	0	0
	Female	1	0
Concluded	Male	2	2
	Female	0	0

Contact details

* Required

Name *
Please enter your full name

Phone number *
Please enter your phone number

Do you own any pets? *
This is to determine whether the housing we provide is suitable

☐ One dog
☐ One cat
☐ One dog and one cat
☐ One dog and more than one cat
☐ One cat and more than one dog
☐ More than one cat and more than one dog

Submit

Choosing who will do the testing

Assistive technology testing?

User testing with people with disabilities?
* Should only be done once WCAG2 testing has been completed and the site is mostly accessible

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User testing with PWD using AT

- Who will you test with?
- How many people?
- What user journeys / tasks will be tested?
- What OS / browsers / devices / assistive technologies will be tested?
- What skills do the users need?
- Who will recruit the users?

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User testing with PWD using AT

- Will the user tests be recorded?
- Who will facilitate the user tests?
- How long will be allocated to the user testing?
- How much will the users be paid?
- Where will the testing occur?
- How will the results be presented?

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Group exercise: Choose an organizational web site and decide who should do the testing

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When will the testing occur?

Building a site

1. Conditions in the RFQ
2. Choosing the right people
3. Reviewing functional specifications
4. **Design evaluation**
5. Reviewing the Web Style Guide

7. **Template evaluation**
8. Training
9. **Final site audit**

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Design evaluation

Test the designs for issues such as:

- Appropriate source order (changes don't occur prior to the current focus)
- Visible field labels for fields
- Appropriate colour contrast

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Design evaluation

03.04.2012   The Conversation

Food fight: the battle for justice from paddock ...

Recent report of a "salt-tolerant" wheat claimed the plant would "help tackle food shortages due to soil salinity". Saline soils, and other types of land degradation, are indubitably a problem across much of Australia's landscape and elsewhere.

01.04.2012   WA Today

Stand and deliver

Some leading companies say offering workers the chance to stand at their desks rather than sit is paying off. There is the beehive, the "ear chairs", the Ned Kelly lounge, the dinosaur bones, the secret forts, the lemon tree and about 6000 bankers.

01.04.2012   News - Nine MSN

Dogs in the workplace reduce stress: study

Employers looking to ramp up productivity in these dog-eat-dog times might consider letting their staff bring Fido to the office, a scientific study published Friday suggests.

Updates from Meltwater News
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The list of outages will automatically begin to filter once you enter

Filter outages by suburb:

Information updated: 27 May 2012 1:00pm

Suburb	Street
Advancetown	Nerang Murwillumbah Rd

BigPond ▼   Directories ▼   Powered by Google™   Go
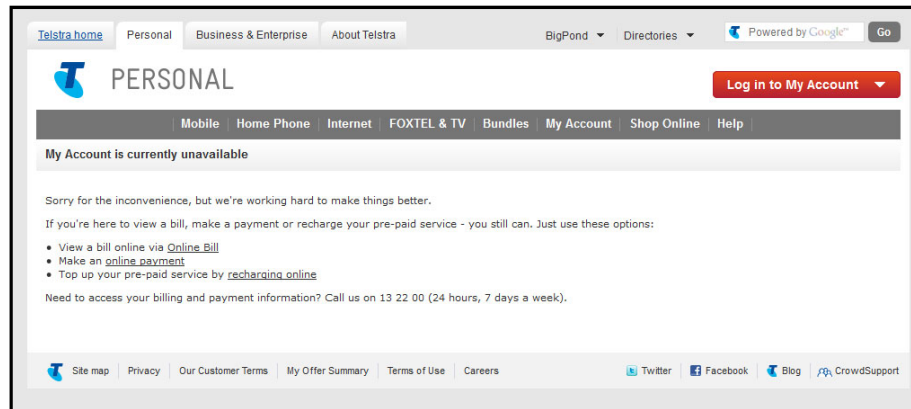
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Template evaluation

Have the templates evaluated for issues such as:

- Coded field labels (LABEL FOR and ID)
- Table headers
- Coded headings
- Hidden structural labels
- Correct layout with style sheets disabled
- Use of HTML5

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Template evaluation

Template evaluation

CSS on:

New to volunteering

Find a volunteer opportunity

Volunteering in an emergency

Volunteer background checks

↳ Working with children checks

↳ Police record checks

↳ Identity and reference checks

Volunteer rights and responsibilities

Volunteer training

Volunteering through your work

Frequently asked questions

Volunteers tell their stories

CSS off:

Secondary Navigation for: Information for Volunteers

- New to volunteering
- Find a volunteer opportunity
- Volunteering in an emergency
- Volunteer background checks
  - Level 2 Secondary Navigation for: Volunteer background checks
  - Working with children checks
  - Police record checks
  - Identity and reference checks
  - End of Level 2 Secondary Navigation for: Volunteer background checks
- Volunteer rights and responsibilities
- Volunteer training
- Volunteering through your work
- Frequently asked questions
- Volunteers tell their stories

End of Secondary Navigation for: Information for Volunteers
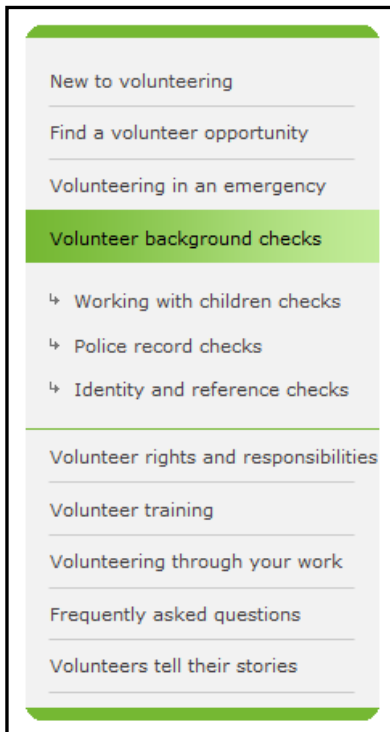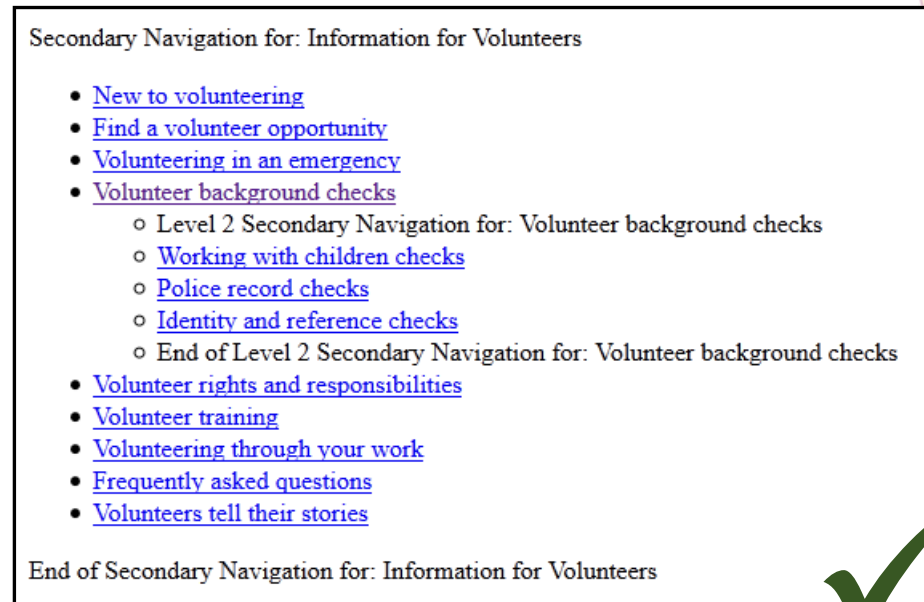
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Testing an existing web site

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Fixing current sites

1. Identify web sites, intranets, applications
2. Set priorities
3. Set timelines
4. Implement a contingency plan
5. Create policy
6. **Assess accessibility compliance**
7. Run training
8. Undertake accessibility fixes

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Assess accessibility compliance

Decide what type of testing you want to complete:

- Automated testing only
- Homepage and template testing
- Limited-scope testing
- All site testing
- All site and all locations testing

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Group exercise: Using the previous organizational web site decide when the testing should be conducted

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Choosing what to test

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Choosing what to test - pages

- All pages
- Some pages
- Directories that should be excluded
- Sub-sites

Choosing what to test - templates

- Homepage
- Main pages
- Sub-pages
- Feature pages
- Search page
- Search results pages
- Form pages
- Table pages

Choosing what to test - processes

- Search results
- Form results
- Different iterations of one-page applications
- Login features

Choosing what to test - popularity

- Google Analytics
- Pages required by law
- Pages required by people with disabilities
- Contact Us page
- Search
- Location page

Choosing what to test - technologies

- Flash
- PDF
- Java
- JavaScript
- Word
- PowerPoint
- Excel

Choosing what to test - functionality

- Image galleries
- Slideshows
- Accordions
- Tabs
- JavaScript navigation
- Form validation

Choosing what to test – third-party

- Twitter feeds
- Video player
- Share features such as AddThis
- ForeSee surveys

Group exercise: Using the previous organizational web site decide what should be tested

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Choosing how to test

Automated testing

- Can only test about 30% of all accessibility errors
- Page-by-page automated testing tools are usually free
- Spidering automated testing tools are usually not
- Has a bad reputation but can be very useful if used properly

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Manual testing

- Absolutely essential when testing sites
- Manual testing is not the same as testing with assistive technologies
- Usually operate via test cases and testing methods

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Testing methods

SVR: Site Visual Review

SMT: Site Manual Test

SCR: Site Code Review

KB: Keyboard

CCA: Color Contrast Analyser

PEAT: Epilepsy tool

CSS: Style sheets disabled

IMG: Images disabled

TXT: Increase text size

D: Device

DKB: Device with keyboard

DSY: Device with system settings

DVO: Device with screen reader

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Assistive technology testing

Screen readers: JAWS, NVDA, VoiceOver, ZoomText, Windows Narrator, ChromeVox, Adobe Read Out Loud, TalkBack, Read and Write Gold, BrowseAloud, ReadSpeaker, WindowEyes

Speech-recognition: Dragon Naturally Speaking, Windows Speech Recognition

Magnifiers (and inverse colors): ZoomText, Windows Magnifier, MAGic

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Operating System and Browser testing

- Not every browser is the same!

- Not all content always appears in all browser sizes!

- Not all browsers support the same level of keyboard accessibility! Or inverse colors! (ie Chrome inverts colors in images too, FF/IE/Edge remove background images)

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Mobile and tablet testing

- Mobile emulators **are not good enough**
- Look at Google Analytics and choose relevant devices
- Specific mobile tests: pinch zoom, landscape mode, inactive space, activation on touch

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Group exercise: Using the previous organizational web site decide how to test

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Choosing how to present findings

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What should the audit be ordered by?

- WCAG criteria?
- Category?
- Functionality?
- Who will fix it?
- Impact on users?
- Location?

- Occurrence?
- Ease of fixes?

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How much information should be provided?

Mandatory:

- WCAG2 information
- Example location
- Example screenshot
- Example code
- Solution

Also consider:

- BBC information
- Impact on users
- Location of all instances
- Corrected example
- Automated testing results

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Walkthroughs

Absolutely essential if you want the site remediated.

Gives developers an opportunity to ask the "stupid" questions – and for you to catch errors before they are deployed across the site!

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Group exercise: Using the previous organizational web site choose how to present the findings

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Choosing the right testing tools
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Group exercise: Using the previous organizational web site decide what testing tools to use

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Developing a scope analysis

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Exercise: Decide

- Who will do the testing?
- When will the testing be conducted?
- What will be tested?
- How to test?
- Which testing tools to use?
- How to present the findings

An overview of automated accessibility testing tools

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Resources

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Resources

Accessibility Factsheets

WebAIM

WAI IG mailing list

WebAIM mailing list

OzWiki

WCAG2 Techniques

PEATWorks

Deque University

SSB University

IAAP

3PlayMedia

Revised 508 Standards Toolkit

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Conferences

- CSUN – San Diego - March
- mEnabling – Washington DC – June
- Federal A11y Forum – Washington DC – October
- ICT Accessibility Testing Symposium – Washington DC – October
- Accessing Higher Ground – Denver - November

A11y camps

- Seattle
- Guelph
- Montreal
- London
- Washington DC
- Toronto
- Ottawa

- Boston
- San Francisco
- New York
- Montana
- Melbourne
- Sydney

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A11y meetups

- Perth
- Toronto
- Chicago
- San Francisco
- New York
- Seattle
- Portland
- Austin

- Amsterdam
- Stockholm
- Utrecht
- Boston
- London
- Montreal
- Vancouver
- Pittsburgh

www.meetup.com/topics/a11y/all/

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Questions?

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