

OER and a taste of the leading edge of Personalisation Supporting Accessibility


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Needs and Preferences Anywhere, Anywhen, Anyhow (including Learning)

- Watch <http://gpil.net>
- But not right now

Accessibility is A Relationship

Some Approaches to managing

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- Medical Model
 - Human argument
 - Exponential Complexity, Costs
 - One/Many sizes fit all (“This works for you”)
 - Many is better than one but sub-optimal
 - Individualisation
 - Adaptations optimal for each user, sometimes managed with explicit machine-readable needs and preferences

Works
Better

The Requirement

- Deliver to the user UI, Content, Form best matched to what that user needs or prefers in that context/environment
- System: for diverse users in diverse contexts
- User: what is useable to that user in that context

Typical Use Cases

- (Teenager ?) texting walking down the street. The sun comes out.
- Watching a course video and the environment becomes noisy – device notices and switches on captions
- Inverse video delivered over the web
- Content rendered in audio while driving

Diverse users in diverse contexts

The User Side – Explicit Needs and Preferences ..

There are many sets. E.g. working on in W3C:IndieUI (User Context integrated in Mobile Devices)

- textualForAuditory: true, false, captions, transcript, transcript-simultaneous
- textualForVisual: true, false, alternativeText, longDescription
- textualForTactile: true, false
- visualForAuditory: true, false, signLanguage
- visualForTextual: true, false
- auditoryForVisual: true, false, audioDescription
- auditoryForTactile: true, false
- auditoryForTextual: true, false

.. Explicit Needs and Preferences

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- tactileForAuditory:true, false
- tactileForVisual:true, false
- tactileForTextual:true, false
- languageOfAdaptation:
- hazard: flashing, flashingStrict, motionSimulation, sound
- ATInteroperable: true, false
- simplePresentation:true, false

The Content Side

- Look at
 - <http://www.allymetadata.org/>
 - <https://wiki.benetech.org/display/allymetadata/Proposed+Properties>
 - <http://accesstonsdl.org/catalog/>
 - <http://www.teachersdomain.org/>

Standards/Groups (techie stuff)

- GPII – <http://gpii.net>
- W3C:IndieUI
 - Independent User Interface
 - <http://www.w3.org/WAI/IndieUI/>
- ISO/IEC JTC1 SC36 Access for All – needs/preference terms registry under construction, working with GPII
- IMS Access for All v 3.0
 - <http://www.imsglobal.org/accessibility/>
- Many other groups, see my web site

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