

reusable resources for online learning

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benefits of reusable digital resources

- cost efficiency
- flexibility
- customised learning
- reduced development time
- teacher control
- enhanced content management

reusable resource characteristics

- discrete and standing alone
- well scoped
- customisable
- platform independent
- neutrality
- scalable

learning objects

- technical domain
- wide interpretation and definition
- object oriented realms
- unclear learning attributes
- very hot topic!
 - eg. SCORM, IMS, IEEE, ARIADNE
 - MERLOT, EML, LSTC

current work

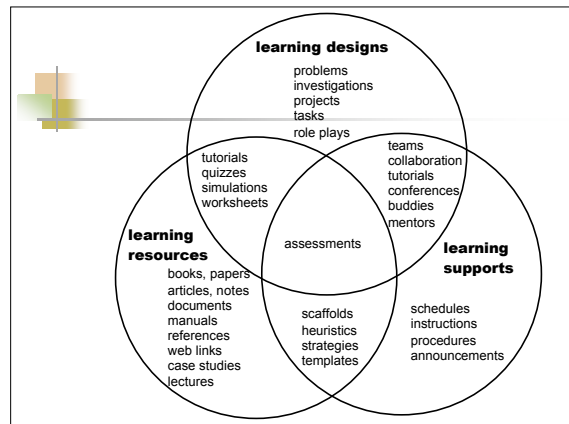
- standards for
 - document description
 - object binding
 - documentation
 - object description
 - learning design
- associated projects
 - metadata
 - digital libraries
 - rights management

local experiences

- National Flexible Toolbox projects 1999-2003
 - <http://www.flexiblelearning.net.au/toolbox/>
- Digital Library
 - <http://repository.westone.gov.au>
- AUTC learning design project
 - <http://learningdesigns.uow.edu.au>

successful learning

- learner-centred
- product-based
- authentic contexts
- integrated assessment
- connected learners
- scaffolded learning



deliberate learning design

Client Brief

The publisher of the Old English Tapes, Rosie Watts, has asked Sharp Solutions to design and build a new interface for her 100 Post Club database.

Rosie developed the database herself, but designed the interface over a few late nights (and a couple of pizzas). As a result, the interface is not very user friendly. Rosie claims that she has no difficulty using the existing interface, but no longer bothering the staff (damn otherwise). Faced with the prospect of a mass walk-out, Rosie promised to address the problem and asked her staff to list their concerns in a memo. This Memorandum is attached to this brief.

Rosie mentioned that the 100 Post Club has some strict rules, which may impact on the design of the interface. She has provided Sharp Solutions with a copy of the Business Rules, which are also attached to this brief.

Sharp Solutions Strategy:

- Develop an interface in a visual environment (such as Visual Basic, Visual C++ or Visual Java). Remember to use our Resource Library if you need to team.

Sticky notes:

- I'd better check what they mean by interface...
- I wonder what they mean by a visual.

supporting features

- separation of elements
 - learning tasks
 - learning resources
 - learning supports
- authentic resources
 - manuals, documents, books, workplace
- development standards
 - code guidelines, functionality descriptions, organisation strategies, file names, file size,
- discovery
 - metadata specification

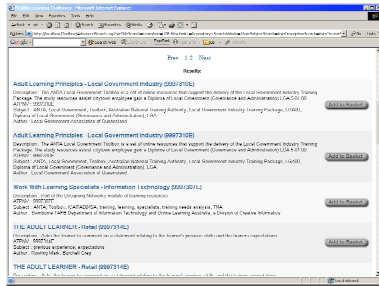
digital library

- database of Series 2 & Series 3 resources
- search engine
- shopping basket
- collection capability
- downloadable file
- teacher in control

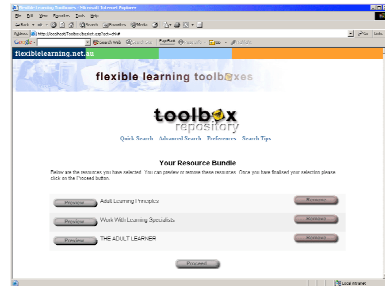
search engine

The screenshot shows a web browser window displaying the 'toolbox' search engine interface. The page title is 'flexiblelearning.net.au / Advanced Search'. The main heading is 'toolbox' with a logo. Below the heading, there are search options: 'Quick Search', 'Preferences', and 'Search Tips'. The 'Toolbox Repository Advanced Search' section includes a search form with fields for Title, Subject, Description, and Create. There is a 'Repository Search' button. Below the search form, there are options for 'Results' (10 results), 'File Format' (Only returns results of the file format), and 'Date' (Returns web pages updated in the last 30 days). The interface is clean and functional, typical of a search engine from the early 2000s.

shopping basket



downloading



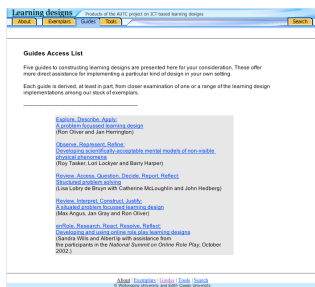
challenges

- granularity
- learning designs
- discovery & access
- storage and delivery
- sharing
- teacher capabilities

ICTs and their role in flexible delivery


- AUTC project
- Edith Cowan University & University of Wollongong
- powerful learning designs
- generic descriptions
- decontextualised
- generic shells and supports

project website



learning objects: practice and challenges

- a technical design strategy
- a development strategy
- a learning design emphasis
- standards
- mainstreaming for teachers
- seamless operation
- resource access
- teacher capabilities



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