New Directions in Digital Library Componentisation

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A long time ago...

- difficult to customise or change architecture
- interoperability is not simple
- no code reuse

monolithic software systems

Recent Past

- demonstrated range of services possible using simple interfaces
- demonstrated systems that can be built using components
- demonstrated performance feasibility
- based on old standards
- confusion among users because of link to OAI-PMH

ODL version 1 components based on extension of OAI-PMH

Current Work

ODL ver. 2

- SOAP/HTTP requests and responses
- General service framework derived from prior experiments
- Separate interfaces for harvesting and component services

DL in a Box

- Documentation, tutorials and support for building DLs from components
- Pre-packaged DLs built from components

Visual Component Composition

- Building DLs visually by connecting components together
- Designing external interfaces for remote configuration and management of components

Future

Specification and Packaging

Specifying DLs declaratively for packaging, deployment and redistribution

Ultimately, simple but configurable architectures for many-sized DLs!