

Working Group 5

Web Services & Web 2.0

Overall Concept L-Space

- Distributed or central platform
- Core functions:
 - Storage, export, backup, multimedia, displace, user management, editing
- Pluggable functions:
 - Shared glossing, distributed realtime translation, gateways to repositories, pedagogy tools, visualization

Generic L-Space Tools

- Shared workspaces/community input to tasks
 - Professional and “citizen scientists”:
 - Provide a workspace that is friendly and safe for non-specialists
 - Expert versions of tools for professionals
- Communication tools
 - Video/audio tools
 - Archives of a/v materials
 - Tagging of non-text data
- Publication/visualization of generic info
- Open archive of research materials

Generic L-Space Tools cont.

- Linkfarm to external material
- De.lic.ious tagging/selecting
- Public wiki spaces with support for language features and private material

Specific L-Space Tools

- Open access to research data
 - Sole format/script problems
 - Common repositories : need standards
 - Presentation layer
- Deliberate indexing/metadata support
 - Semantic tagging of content
- Server-side tools: analysis, etc.

Specific L-Space Tools

- Phonology: identify specific features in material, support interlinear material, in-document search and highlighting
- text analysis
 - Web versions of standard tools: nuDIST, nltk, parsers, tagging tools, interlinear gloss, etc.

Specific L-Space Tools

- Examples with arbitrary mark-up and interlinking within the archive
 - Word-level linking
- Generate flash/other output directly from stored data according to user preference (pedagogy)

Social Functionality

- Registry of participants
- Persistent links (like DOI)
- Visibility of what's happening around the L-space
- Virtual research community tools
 - Communications, shared materials for presentation

Functionality - Input

- Should functionalities come thru standards or a central service?
- Data upload (all types) - for professionals and for public
- Data cleaning/formatting/conversion
- Verification of user and material
 - Activity data, interests
 - Links, relationship data, etc.

Funct'nality: Work in Prog.

- Editing
- Tagging
- Data store
- Data mining
- Search
 - Base content, metadata, via social relationships

Func't'nalities, Work in Prog.

- Collaborative coding of texts
- Peer review of WIP/drafts
- Publication workflow

Functionalities: Output

- Data export
 - For local consumption
 - Open content
- Public interfaces to deep content (mashup capability)
- Publishing: online & multimedia
- Micropublication
- Individual observations
- Questions
- Bibliographical data

Use Cases

1. A Linguist is collecting data/analysing data
2. An educator/lobbyist needs language info in a easy-to-use and presentable format
3. Citizen scientists use the archive to participate in large data-annotation tasks.
4. A linguist needs to find info/relationships related to specific theme.
5. Community members use L-Space to gain knowledge about their language thus building confidence and preserving language.

Global Purposes

- Harness the untapped potential of:
 - Citizen scientists for empirical work
 - Data that is locked in people's offices
 - Unpublished results or in inaccessible places
- Encourage social rel'nships
 - Community members
 - Researchers (researchers)
 - Educators, lobbyists, gov't, media
- Encourage web-based development
 - Take software maintenance/data storage out of the individual user's hands