

# <oxygen/> XML Editor 17 XML Authoring on the Web



# File access – out-of-the-box

- File repositories with WebDAV support:
  - CMS: Alfresco
  - CVS: SubversionEdge
  - Web Servers: IIS, Apache
  - Storage Services: Box
- Google Drive & Dropbox

# File access – integration

- Read-only HTTP access + client-side library to check-in a file in the CMS
  - Button on the toolbar that triggers the check-in procedure
- Examples:
  - GitHub – [raw.githubusercontent.com/...](http://raw.githubusercontent.com/)
  - All versioning systems have read-only http access

# File access – integration (2)

- Use client-side library for both load and save
  - Limited to vocabularies without external references
    - DITA conrefs
    - images
- Examples:
  - Forms
  - Specialized formats: movie subtitles

# File access – integration (3)

- Server-side access to CMS
  - Java API
  - Works for arbitrary CMS APIs
    - Open source samples for Google Drive & Dropbox
  - References are resolved correctly
- `openConnection(sessionId, url);`
  - `conn.getInputStream()` – loading
  - `conn.getOutputStream()` – saving

# File Browsing

- Repository browser
  - JS implementation
  - Sample: Dropbox
- Used for:
  - Inserting images
  - (planned) inserting content references
  - (planned) opening documents
- Planned improvements:
  - Out-of-the-box WebDAV browser

# Workflow integration

- **Sequential workflow**
  - Alice sends an editing link to Bob
  - Bob edits the document
  - Bob lets Alice know he finished
  - Alice sends an editing link to someone else
  - ...

## Workflow integration (2)

- Concurrent workflow with branching (git-like):
  - Configure the version to be published
  - Bob changes the published version
  - Bob saves the change in its own branch
  - Carol changes the published version (without Bob's changes)
  - Carol saves the change in its own branch
  - Alice merges all the changes and republishes

# Workflow integration (3)

- Locking workflow:
  - Bob opens a document
  - Carol opens a document
    - The document is read-only
    - There is a notification that Bob is also editing
  - They talk to each other to coordinate

# Workflow integration (4)

- Live concurrent workflow (\*not yet supported)
  - multiple users editing the same file
  - Planned:
    - one writer, the others see real-time changes
    - multiple writers in different paragraphs

# Practical details

- Resources
  - Java development
    - Server-side Java API
    - Very similar to oXygen SA integrations
  - JavaScript development
    - Client-Side API
    - Required for GUI components

# First steps

- Entry point
  - <http://oxygenxml.com> > Resources > oXygen SDKs
- Setup
  - Create the SDK project
  - Configure the license details
  - Run the project
- Documentation:
  - Java and JavaScript API
  - User Manual
  - Samples

