

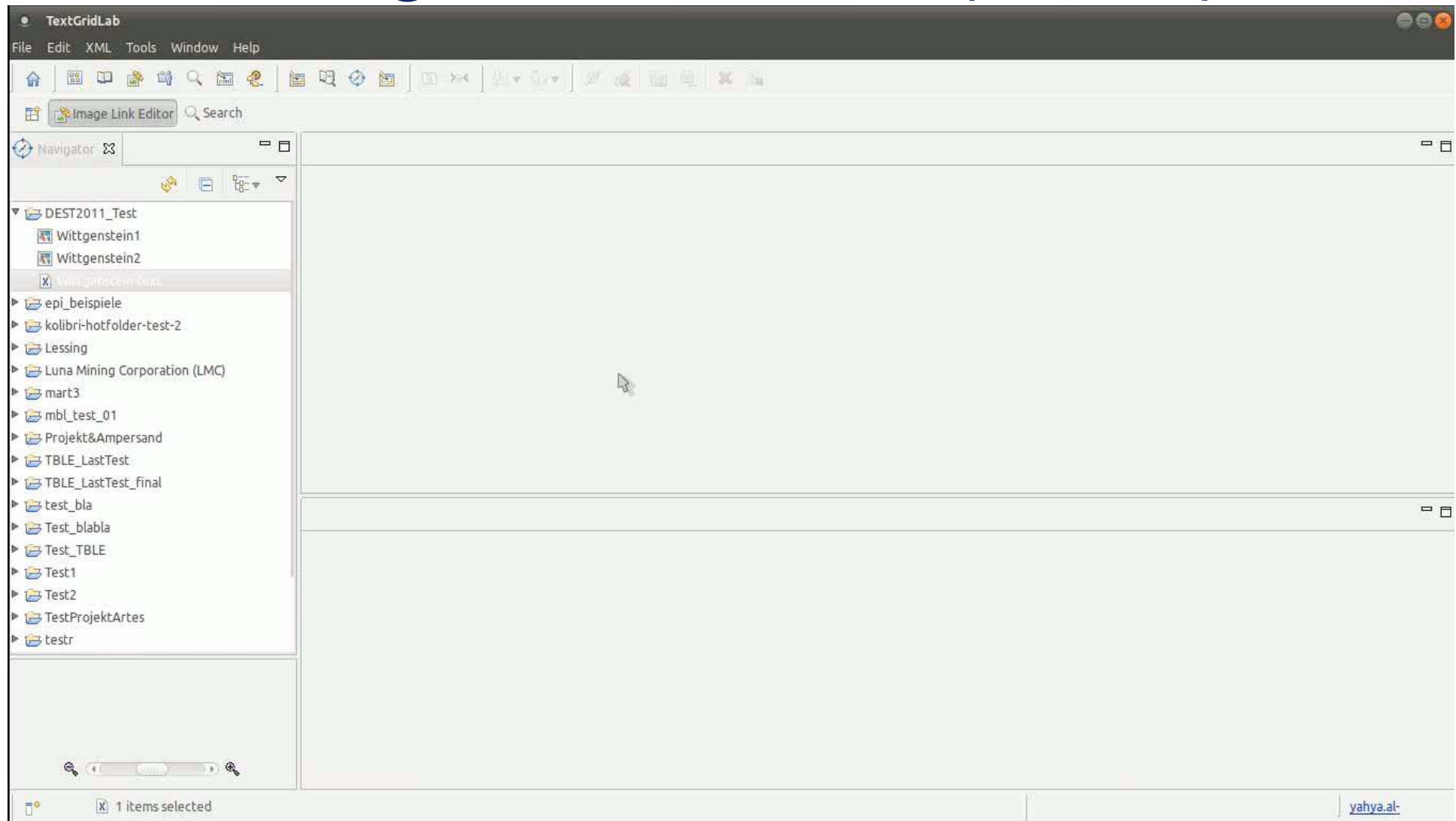


Text-Text-Link-Editor (TTLE)

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What we have already: the Text Image Link Editor (TBLE)



TTLE: Mission

- Assist TextGrid users to generate arbitrary links between fragments of XML documents of different provenance
 - Manually
 - Semi-automatically
- Plays with other TG components + print
- Validate existing links between documents
- Links represent user defined concepts
 - Citations, allusions etc.

Requirements gathering

- Blumenbach online
- Sharing Ancient WisdomS (SAWS)
- WisNetGrid
- Faust-Edition (planned for next week)
- Fontane-Edition, GCDH (later)
- **You**

What will TTLE be?

- Tool to link various text fragments together
 - Text fragments available as well-formed XML
 - Assistance in creating and managing these links
 - Validation of existing links
 - Visualization of linked fragments in relation to each other
 - Integrated into TextgridLab

What characteristics will a link have?

- Any number of text fragments can be grouped together in a link (n-ary relation)
- Any number of links can be created in a project
- Each link can be supplied with additional text
- A type can be assigned to each link
- Each type carries its own set of attributes to be filled in

Which documents can be addressed by a link?

- TTLE able to handle three kinds of documents:
 - Documents with write access (any text fragment can be selected)
 - Published documents (any text fragment can be selected)
 - Documents with read access, and write access for another user (only text fragments with existing id selectable)

How will link types work?

- Two kinds of types will be available
 - Free form link type
 - Freely definable name and a single text block
 - Pre-defined link type
 - Name and a specific subset of attributes
- Probably stored in an RDF triple-store (alternative: embedded RDF in TEI)

How will pre-defined link types work?

- Pre-defined link types belong to the user who created them
- Import into any accessible project
- Once added to a project every member of the project can use the link types
 - → Each project only has to deal with the link types required by the project

How will pre-defined link types be managed?

- Tool for link type administration
 - Generation of link types and their attributes
 - Upload of generated links to the triple-store
 - Assign link types to projects

How will TTLE support the scientist's work?

- Special attention on easy-to-use interface, aligned where possible with TBLE
- Text selection via mouse
- Creating links with a single mouse click
- Synoptical view of linked documents
- Easy way to switch between documents of multiple-document-links
- Undo functionality

How will TTLE support the scientist's work?

- Overview of all linked documents grouped together by link types
- Sorting the text fragments associated with a specific link type by any attribute defined for that link type

How will TTLE support the scientist's management overhead?

- Whenever a TTLE Document is opened, all existing links will be validated
- All writable documents can be changed over time
 - Link elements can be removed, linked text can be altered
- TTLE will keep hash sums of all text fragments that are part of a link
- If problems occur, the user will be notified

How might TTLE look like?

The screenshot shows the TextGridLab interface with two main editing panes. The left pane is titled "[Kahl reckt der baum]" and contains a yellow highlight for the title and a block of text with green highlights. The right pane is titled "II Abend in Arlesheim" and contains a yellow highlight for the title and a block of text with green highlights. A bottom panel shows the XML source code for the first document.

Left Pane: [Kahl reckt der baum]

George, Stefan other Stefan George: Der siebente Ring. Gesamt-Ausgabe der Werke, Band 6 / 7, Berlin 1931 Stefan George: Der siebente Ring. Gesamt-Ausgabe der Werke, Endgültige Fassung, Band 6 / 7, Berlin: Georg Bondi, 1931. 1931

<!--[[id:George-Stefan-d1e319C]]--><!--lem:[Kahl reckt der baum]]-->

2 0. [Kahl reckt der baum]

Kahl reckt der baum
Im winterdunst
Sein friend leben -
Lass deinen traum
Auf stiller reise
Vor ihm sich heben!
Er dehnt die arme -
Bedenk ihn oft
Mit dieser gunst
Dass er im harme
Dass er im eise
Noch fruhling hofft!

Right Pane: II Abend in Arlesheim

George, Stefan other Stefan George: Der siebente Ring. Gesamt-Ausgabe der Werke, Band 6 / 7, Berlin 1931 Stefan George: Der siebente Ring. Gesamt-Ausgabe der Werke, Endgültige Fassung, Band 6 / 7, Berlin: Georg Bondi, 1931. 1931

<!--[[id:George-Stefan-d1e319C]]--><!--lem:II Abend in Arlesheim]]-->

2 0. II ABEND IN ARLESHEIM

Ihr sizt vereinsamt in des weges dust
Und fragt und zagt in der gedanken trauer.
Der erde jede frucht ward euch zu sauer
Und jeder trieb zu wild für sieche brust.

In haltung die uns werk und traum gegeben
Und aller küsse aller tränen mal
Zusammengehn von licht- zu schattental!
Ums andre sorgt nicht viel das Neue Leben.

Bottom Panel: XML Source Code

```
<?xml version="1.0" encoding="UTF-8"?><TEI xmlns:jxb="http://java.sun.com/xml/ns/jaxb" xmlns:tei="http://www.tei-c.org/ns/1.0" xmlns="http://www.tei-c.org/ns/1.0" xmlns:"http://www.w3.org/2001/XMLSchema-instance" xmlns:tms="http://www.w3.org/2001/XMLSchema-instance">
  <teiHeader n="work:yes">
    <fileDesc>
      <titleStmnt>
        <title>TTLE</title>
      </titleStmnt>
    </fileDesc>
  </teiHeader>
  <lg>
    <lb xml:id="tg549.3.11"></lb>
  </lg>
</TEI>
```

When will this be available?

- If everything works according to schedule, the basic features mentioned till now will be available in about 6 months

How will TTLE continue?

- Various features are requested to enhance TTLE
 - Automated search for similar text fragments
 - API to allow external access to link data
 - Visualization of all links of a project
 - Comfortable editor for link types

How can similar text search be realized?

- Search for similar text fragments, especially when searching collections of documents, can be very time consuming
 - → search should be performed on a server
 - → TTLE needs a user interface to initialize searches and to present results
- Server-sided search component must offer different similarity algorithms

What could an API for external access offer?

- Many projects will present their research-results in their own project's web page
- Therefore accessing linked data via an api from an external server will be important
- Two ways to handle this are possible:
 - Exporting linked data from the Lab
 - Accessing linked data via web service

How can projects be visualized?

- A map of all text fragments referred to by links can be useful to get an overview
- While a map of all document fragments referred to by a single link type can visualize the evolving of a document
- If time allows it, TTLE will offer both types of visualization
- Probably realized as a generalized visualization component of TextgridLab

What could a comfortable link type editor offer?

- Grouping link types together
- Adding link groups to projects
- Offer link types or type groups to other people
- Make link types or type groups publicly available
- Allow editing of link types, that are in use
- Allow transformations to transform one link type into another

Your ideas of what TTLE should offer?

