

TextGrid: Creating, archiving, publishing and exploring humanistic research data via a Virtual Research Environment (VRE)



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The Virtual Research Environment **TextGrid** supports scholarly work in the humanities with digital methods, tools, and services. It enables the collaborative creation and processing of research data. Besides the large, individually adaptable and extensible range of software applications of the **TextGrid Laboratory**, the **TextGrid Repository** offers the required storage capacity as well as permanent, secure and citable long-term archiving.

Sources










Digital research data

- XML/TEI-encoded text
- Image files such as high resolution facsimile scans, manuscripts, or works of art
- Musical score
- Databases
- [...]

create · ingest

TextGrid Laboratory

Open Source tools in a secure environment

 Import / Export	 Text Image Link editor
 Search tool	 Metadata editor
 Navigator	 Aggregations
 Dictionary search	 XML editor
 User and project administration	

Plus **MarketSpace** (external tools optimised for usage in TextGrid, such as the oXygen XML editor)

MarkUp (XML / TEI)

Metadata

- XML structures
 - Text Encoding Initiative (TEI)
 - Music Encoding Initiative (MEI)
- TextGrid object model
 - Metadata for a differentiated hierarchical object structure
- Visual interface

store · share · explore

TextGrid Repository

Long-term archive and accessibility of research data

- Sustainable long-term preservation** (bitstream preservation)
- Citability** (persistent identifiers)
- Powerful search and analytics engine** (ElasticSearch)
- Open interfaces for interoperability** (REST, SOAP, OAI-PMH, IIIF)
- Text analysis and visualisation tools** (such as VOYANT/DIGIVOY, CollateX)
- Image viewing and annotation services** (such as digilib, Mirador)

Online Portal

SADE (Scalable Architecture for Digital Editions) offers the transfer of research data into an indexed and searchable eXist database.

Further processing

e.g. **print publication** via XML PRINT