

From entity description to semantic analysis: The case of Theodor Fontane's notebooks

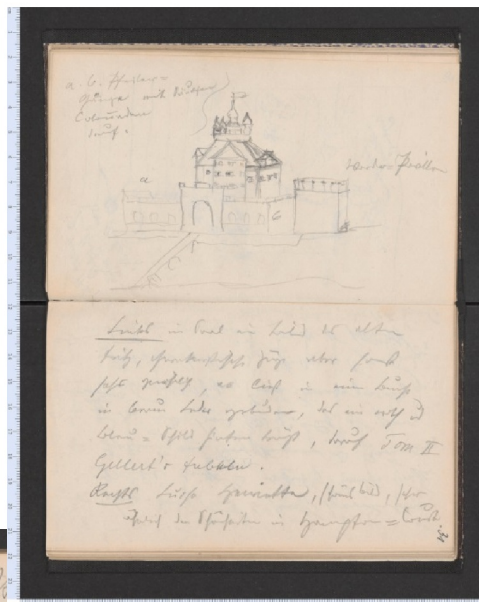
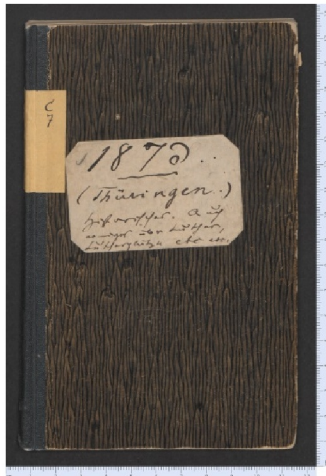


Martin de la Iglesia and Mathias Göbel

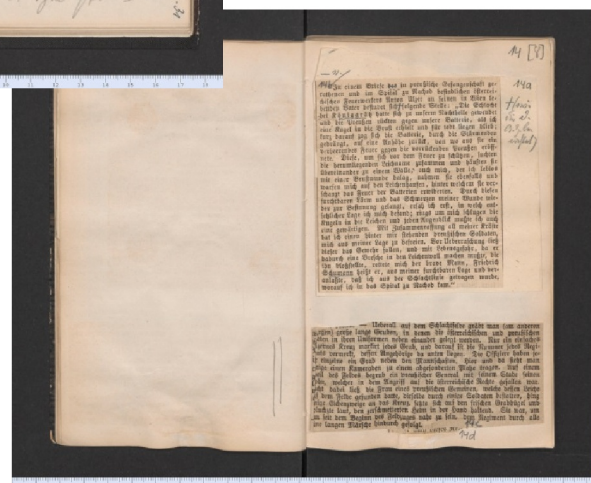
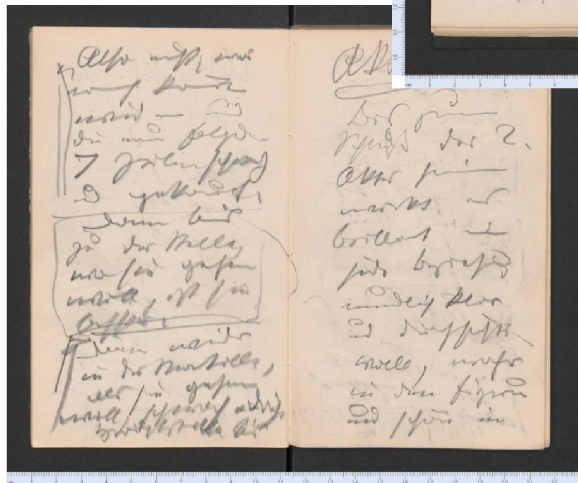
Conference and Members Meeting, October 2013

Th. Fontane

Theodor Fontane's notebooks








- period: 1859 - 1880s
- 67 notebooks
- 64 - 120 leaves each
- < 10.000 pages

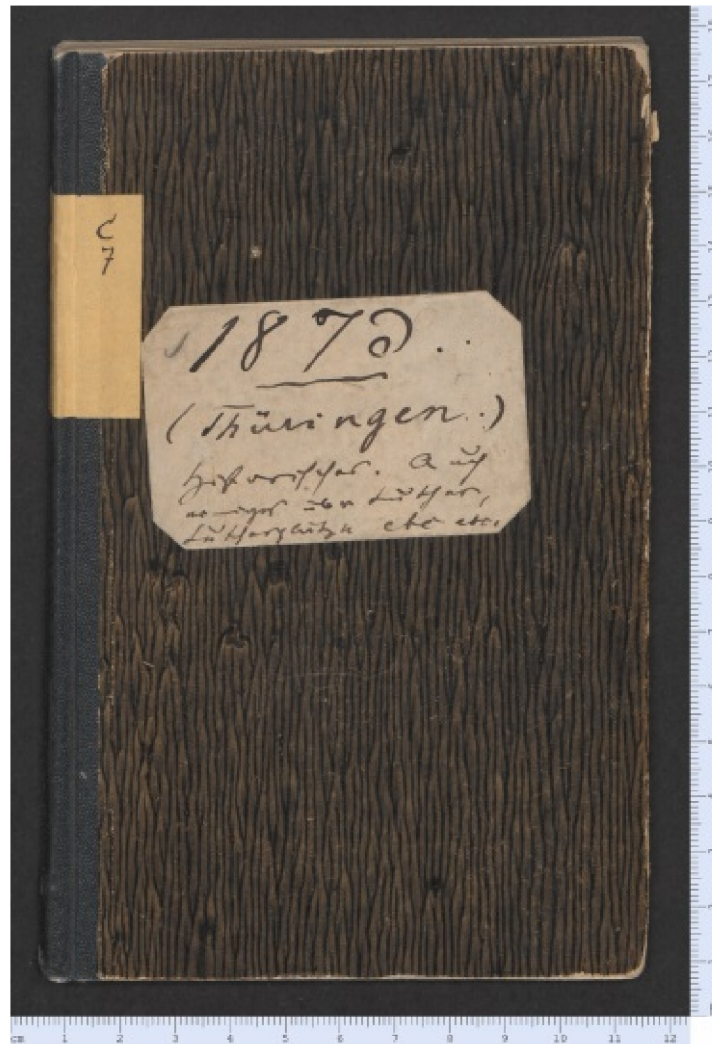


Theodor Fontane
(1819 - 1898)

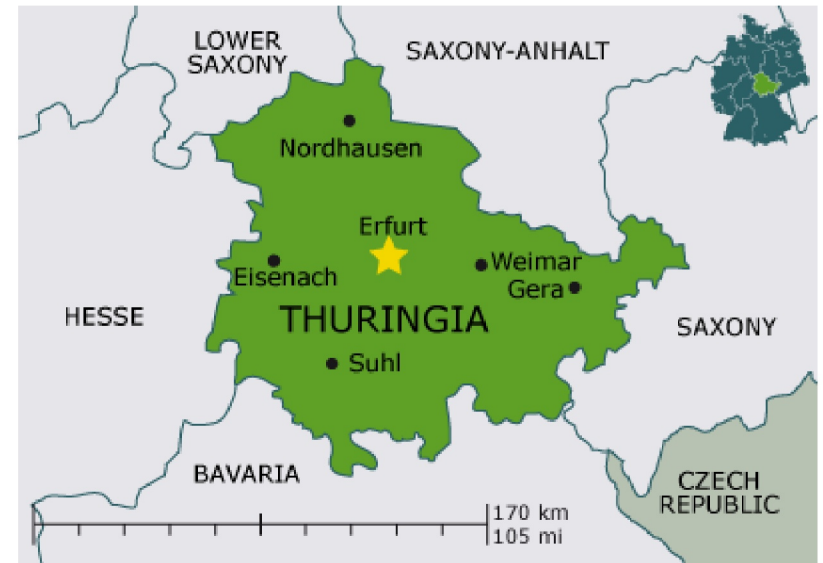
Th. Fontane

Project overview

- Project title: „Genetic-critical and annotated hybrid-edition of Theodor Fontane’s notebooks based on a virtual research environment”, website: www.uni-goettingen.de/de/303691.html
- Funding:  Deutsche Forschungsgemeinschaft
- Duration: 2011 – 2014 (+ 2014 – 2017)
- Concept, transcription, markup:  GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN  Theodor Fontane - Arbeitsstelle
- Encoding scheme, visualization:  NIEDERSÄCHSISCHE STAATS- UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN |  SUB
- Associated partner, owner of the notebooks and copyright holder of all related images: Staatsbibliothek zu Berlin, Preußischer Kulturbesitz



Thuringia (Thüringen) today

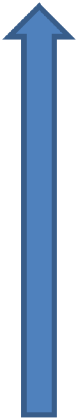



map by Milan Walker, Eardex.com

TEI entity references

```
<person xml:id="Luther">  
  [...]  
  <idno type="GND">118575449</idno>  
  [...]  
</person>
```

```
<place xml:id="Kloster_EF">  
  [...]  
  <idno type="OpenStreetMap">164587492</idno>  
  [...]  
</place>
```

```
<rs ref="#Luther">Er</rs> ißt in <rs ref="#Kloster_EF">diefem  
Klofter</rs> ich glaube <date notAfter-iso="1508">bis  
1508</date>.
```

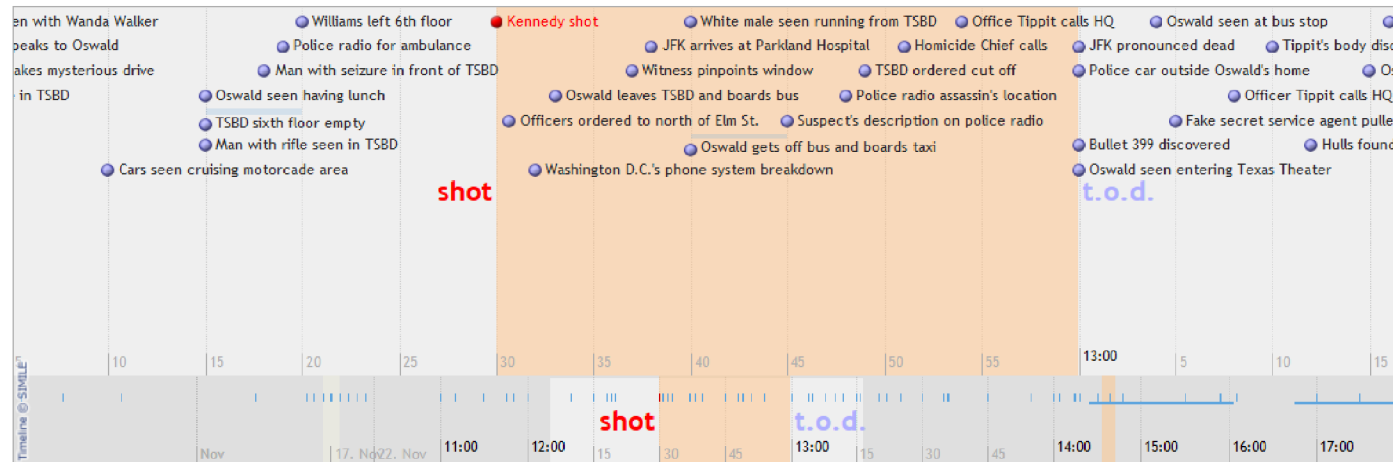

SIMILE Timeline widget

Timeline

Web Widget for Visualizing Temporal Data

With this widget, you can make beautiful interactive timelines like the one below. Try dragging it horizontally or using your mouse-wheel. Click on each event for more details.

Switch theme



Links

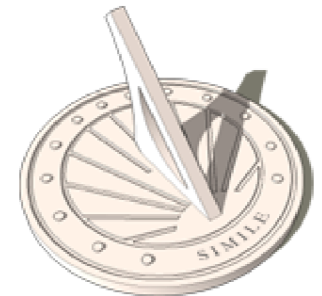
- [Many more live examples](#)
- [Documentation wiki](#)
- [Mailing list](#)
- [Source code](#)
- [Issue/bug tracker](#)
- [Older Documentation wiki](#)
- [Older mailing list](#)

Licensing

Timeline is open source software and is licensed under the [BSD license](#).

Credits

This software was originally sponsored by [The Andrew W. Mellon Foundation](#) as part of the [SIMILE project](#). Its original author is [David François Huynh](#). Now it is being maintained and developed by many members of this open-source community.



<http://simile-widgets.org/>

SIMILE Timeline widget

TEI/XML
(Fontane's
notebook)

enrich with
RDF/XML
(e.g. GND)
based on
philological
annotations

XML + HTML (SIMILE Timeline)

RESULTS

```

<?xml version="1.0" encoding="utf-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/xsl" transform="urn:schemas-xsl:base:http://www.w3.org/2001/XMLSchema" xmlns:tei="http://www.tei-c.org/ns/1.0" xmlns:gnd="http://d-nb.info/standards/elementset/gnd#" exclude-result-prefixes="xs tei gnd" version="2.0">

  <xsl:template match="/">
    <xsl:result-document href="c07-simla-timeline.html" method="html">
      <html>
        <head>
          <meta http-equiv="Content-type" content="text/html; charset=utf-8" />
          <script src="http://api.simla-widgata.org/timeline/2.3.1/timeline-api.js?bundled=true" type="text/javascript"></script>
          <script>
            function onready() {
              var eventSource = new Timeline.DefaultEventSource();
              var bandInfo = [
                timeline.createBandInfo({
                  eventSource: eventSource,
                  date: "1500",
                  width: "70%",
                  intervalUnit: timeline.DateTime.NoCase,
                  intervalSize: 50
                }),
                timeline.createBandInfo({
                  overview: true,
                  eventSource: eventSource,
                  date: "1500",
                  width: "30%",
                  intervalUnit: timeline.DateTime.Centered,
                  intervalSize: 60
                })
              ];
              bandInfo[1].synopsis = 0;
              bandInfo[1].highlight = true;

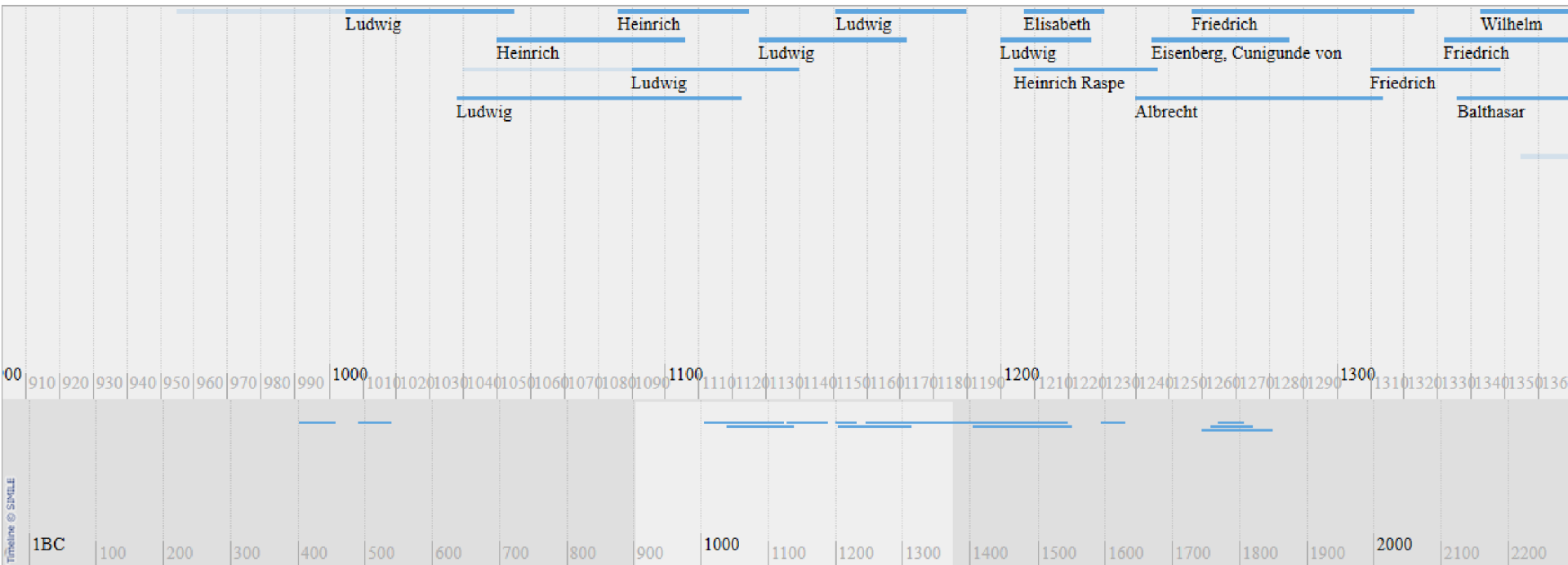
              tl = timeline.create(document.getElementById("myTimeline"), bandInfo);
              timeline.loadDom("c07-simla-timeline.xml", function(xml, url) { eventSource.loadDom(xml, url); });
            }
          </script>
        </head>
        <body onload="onready();" onresize="onresize();">
          <div id="myTimeline" style="height: 500px; border: 1px solid #aaa"></div>
          <noscript>This page uses JavaScript to show you a timeline. Please enable JavaScript in your browser to see the full page. Thank you.</noscript>
        </body>
      </html>
    </xsl:result-document>
  </xsl:template>
  <xsl:result-document href="c07-simla-timeline.xml" method="xml" indent="yes">
    <data>
      <xsl:apply-template select="//tei:person"/>
    </data>
  </xsl:result-document>
</xsl:stylesheet>

<xsl:template match="//tei:person">
  <xsl-if test="not(//tei:idno[type eq 'dnp'])">
    <xsl:message terminate="true" select="//tei:idno[type eq 'dnp']"/>
  <xsl-if test="(document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfBirth or document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfDeath)">
    <xsl:attribute name="durationEvent" value="true"/><xsl:attribute name="title">
      <xsl:value-of select="$document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:preferredNameForThePerson"/>
    </xsl:attribute>
    <xsl:choose>
      <xsl:when test="document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfBirth">
        <xsl:attribute name="start">
          <xsl:value-of select="$document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfBirth"/>
        </xsl:attribute>
      </xsl:when>
      <xsl:when test="document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfDeath">
        <xsl:attribute name="start">
          <xsl:value-of select="$document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfDeath - 100"/>
        </xsl:attribute>
        <xsl:attribute name="latestStart">
          <xsl:value-of select="$document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfDeath - 50"/>
        </xsl:attribute>
      </xsl:when>
    </xsl:choose>
    <xsl:choose>
      <xsl:when test="document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfDeath">
        <xsl:attribute name="end">
          <xsl:value-of select="$document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfDeath"/>
        </xsl:attribute>
      </xsl:when>
      <xsl:when test="document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfBirth">
        <xsl:attribute name="end">
          <xsl:value-of select="$document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfBirth + 50"/>
        </xsl:attribute>
        <xsl:attribute name="end">
          <xsl:value-of select="$document{concat('http://d-nb.info/', $gndid, '/about/rdf')}//gnd:dateOfBirth + 100"/>
        </xsl:attribute>
      </xsl:when>
    </xsl:choose>
  </xsl:if>
</xsl:template>

```

Th. Contance

SIMILE Timeline widget



<http://tiny.cc/tei-conf>

SIMILE Timeline widget

William Godwin's Diary

<http://godwindiary.bodleian.ox.ac.uk>

TEI/XML
(Godwin's
diary)

XSLT

XML + HTML (SIMILE Timeline)

[illegible]

Th. Contance

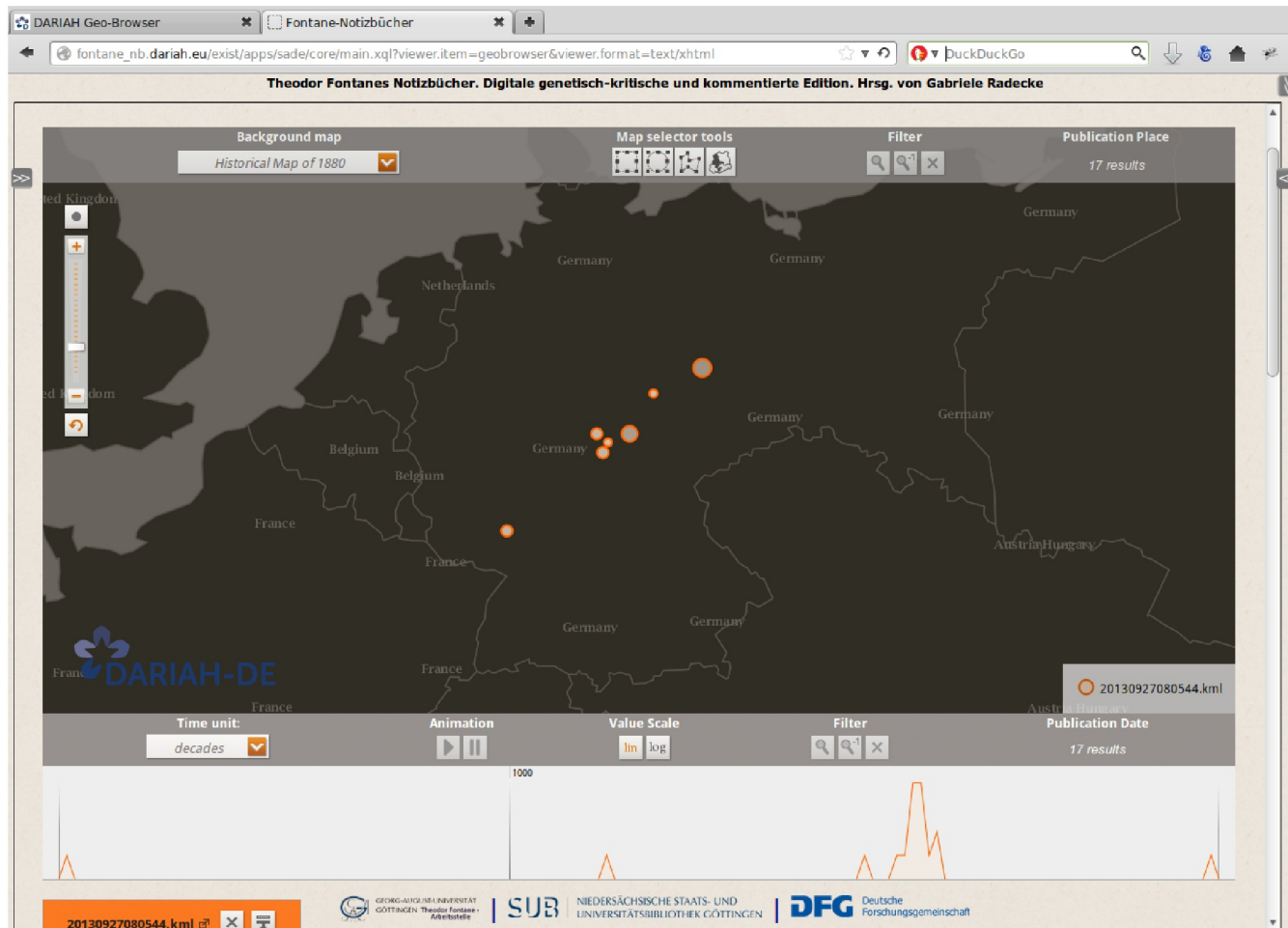
[illegible]

Geo-Browser



DARIAH Geo-Browser: <http://geobrowser.de.dariah.eu>

Geo-Browser



<http://tiny.cc/geobrowser>

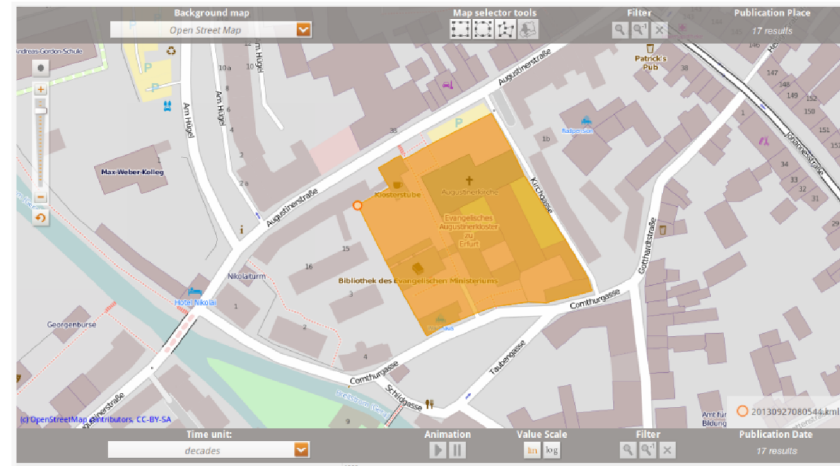
Th. Fontane

```
<sourceDesc>
<listPlace>
<place xml:id="Erfurt">
  <idno type="GeoNames">2929670</idno>
  <place xml:id="Kloster_EF">
    <!--<idno type="Wikipedia">Augustinerkloster_(Erfurt)</idno>-->
    <idno type="OpenStreetMap">164587492</idno>
  </place>
</place>
</listPlace>
</sourceDesc>
```

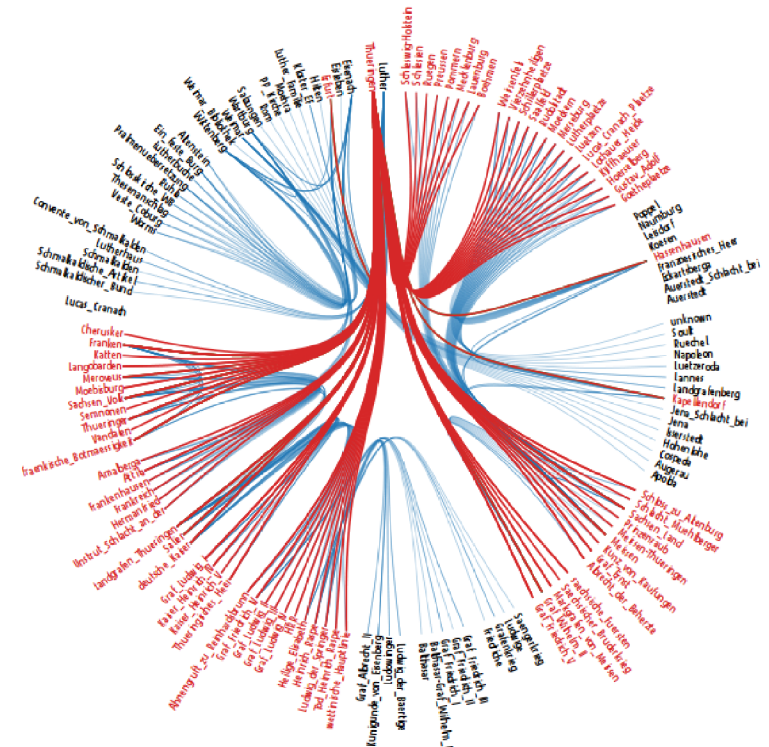
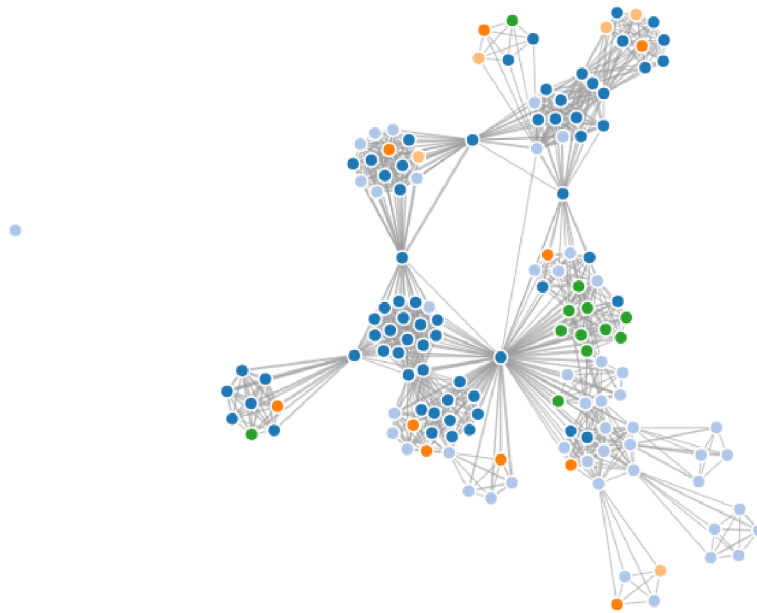
XSLT

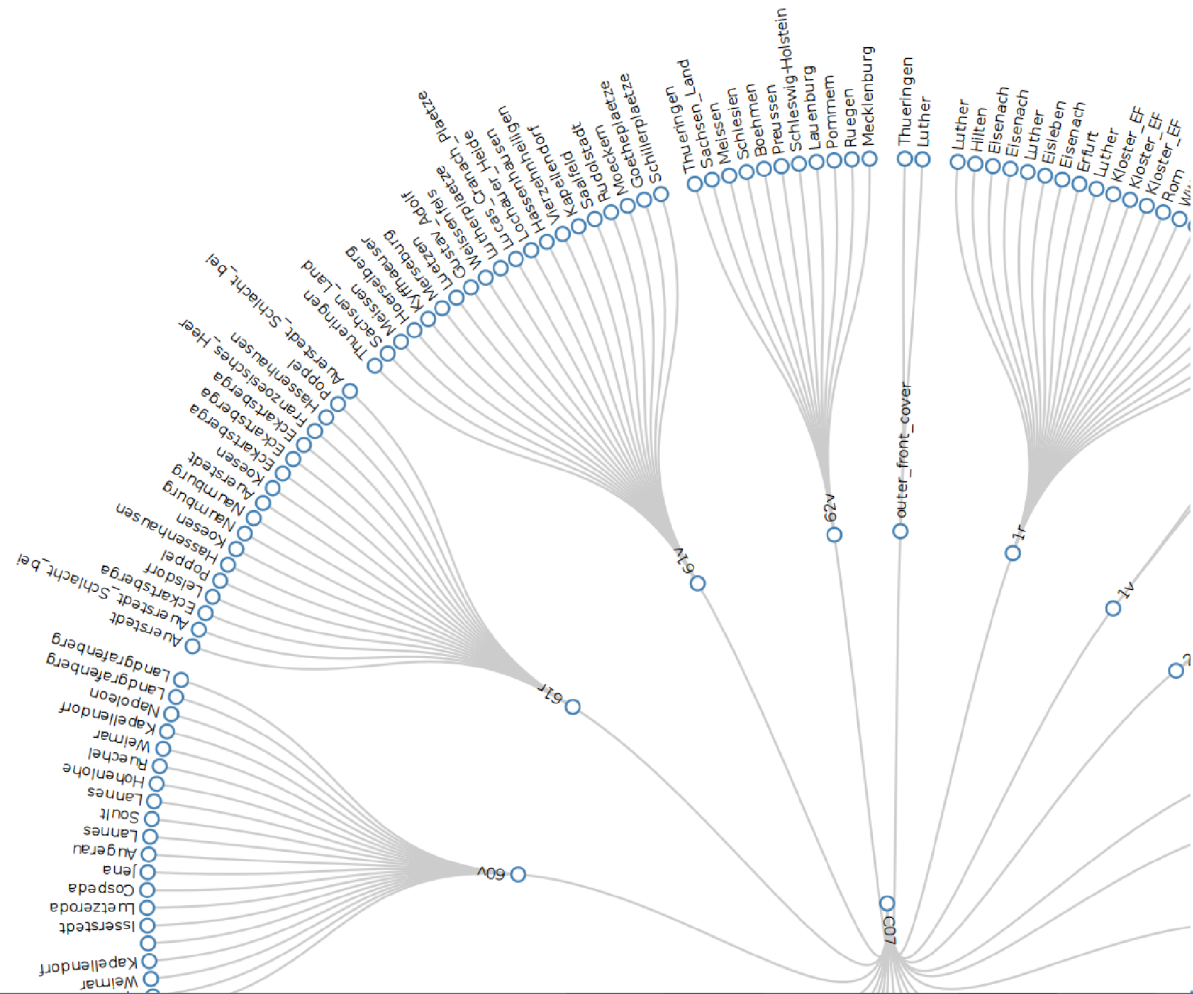
KML

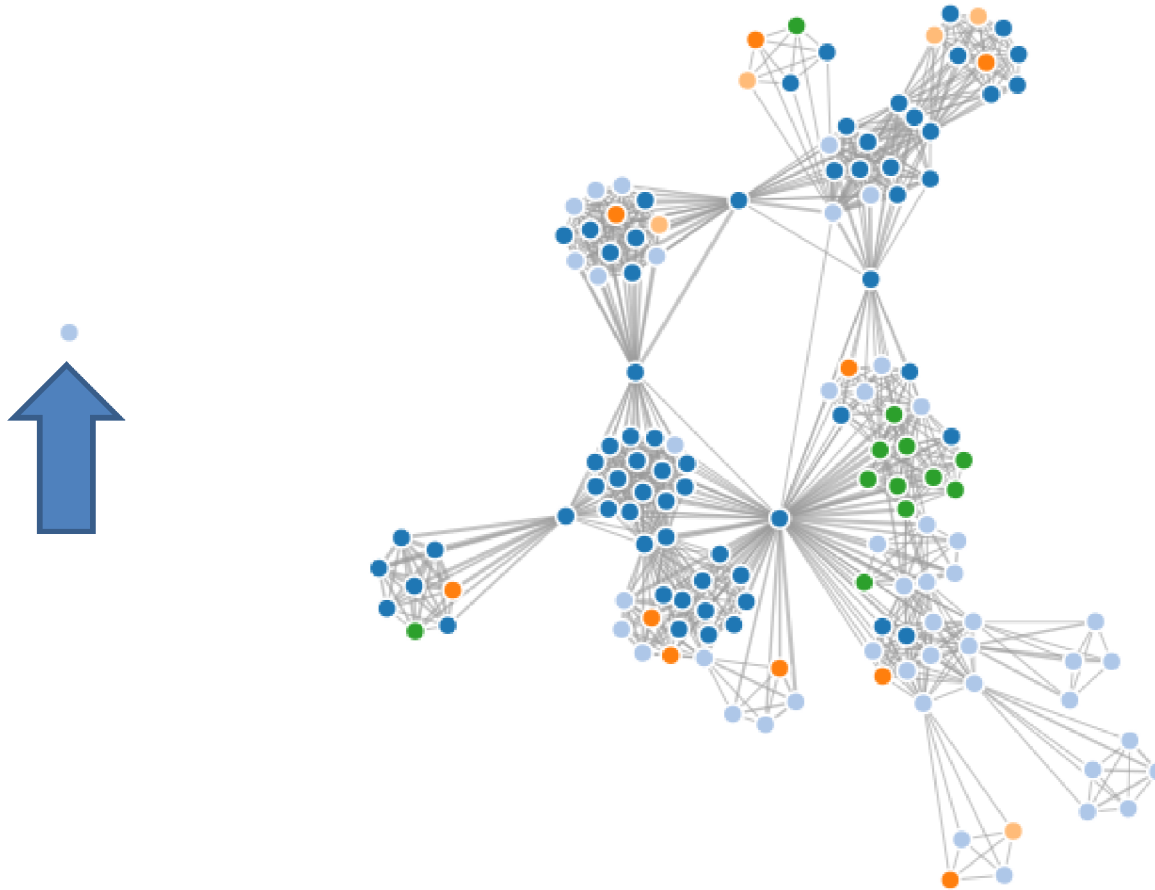
Geo-Browser API

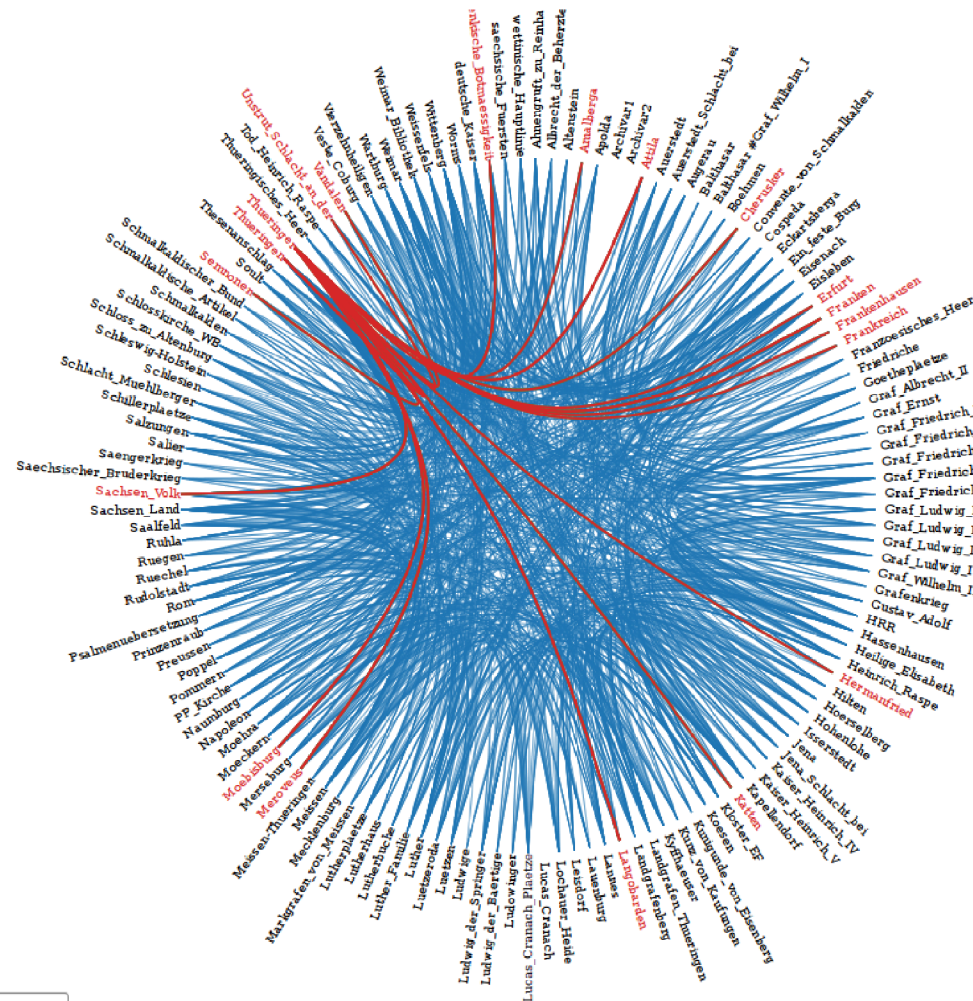


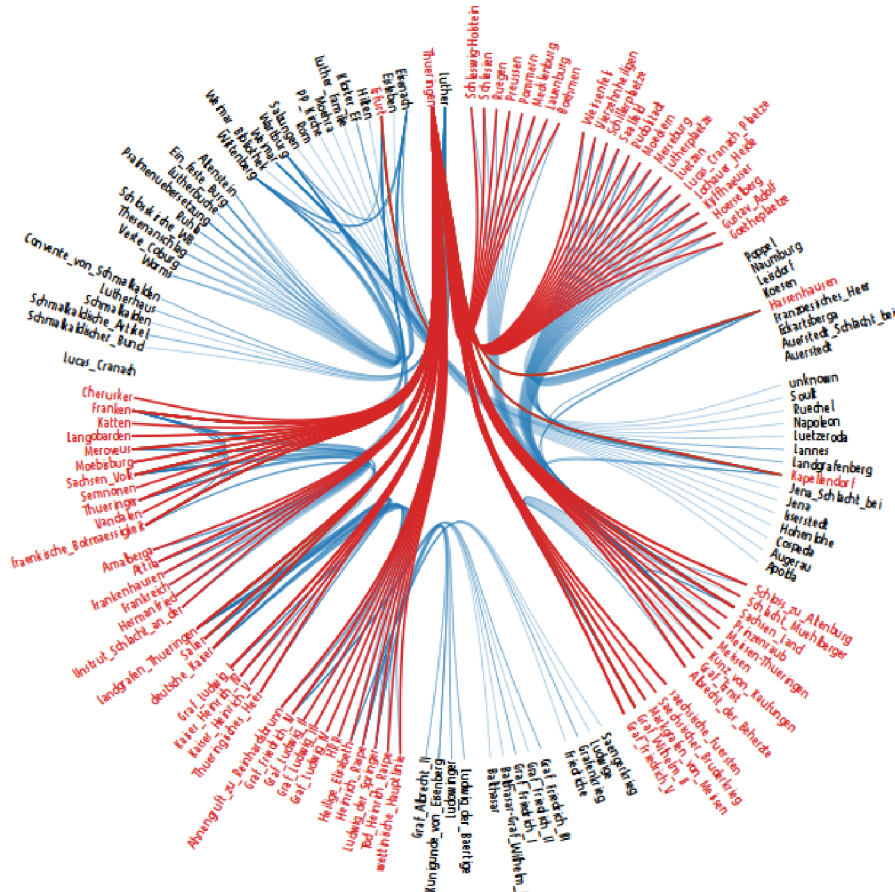
Data-Driven Documents



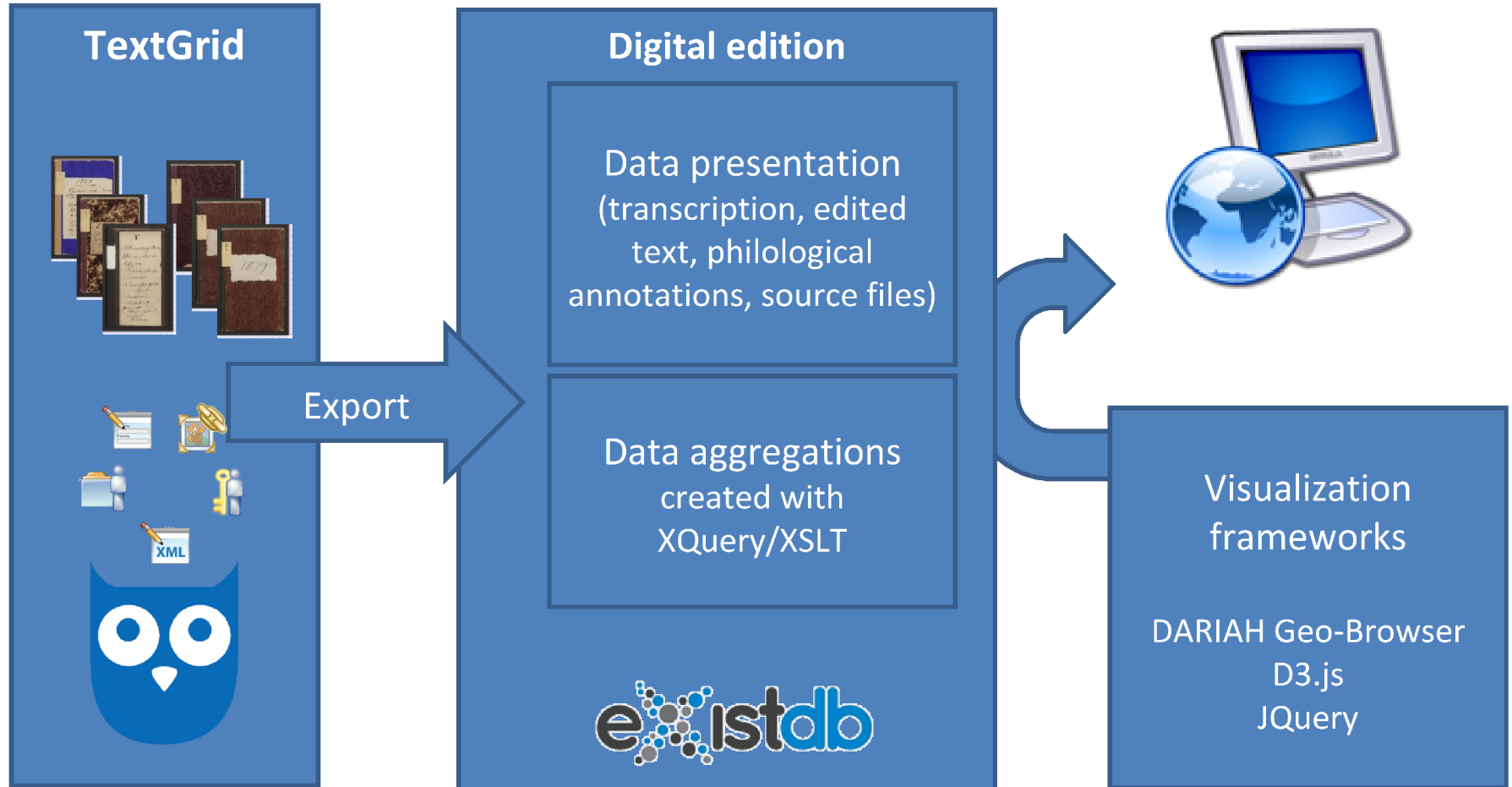








Architecture



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