



Masterclass “Digital Scholarly Edition”  
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CENTRE FOR  
INFORMATION-MODELLING  
AUSTRIAN CENTRE FOR  
DIGITAL HUMANITIES



# Introduction to publishing workflows in GAMS Graz

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# GAMS: An Infrastructure for Research Projects in the Digital Humanities



- Geisteswissenschaftliches Asset Management System  
(Asset Management System for the Humanities, <https://gams.uni-graz.at>)
- the acronym is the German word for 'chamois'



# GAMS: An Infrastructure for Research Projects in the Digital Humanities



- Not only a technical infrastructure, but a strategy
  - a repository for publication and long-term archiving of digital resources (from the humanities)
  - both a storage layer and a framework for sustainable application development
  - certified according to the criteria of the Data Seal of Approval
  - built on FEDORA: we use it since version 2.0 (2004) up to 3.5
  - further integral technologies: Blazegraph triplestore, Apache Cocoon, Apache Solr, Loris IIIF image server
  - persistent identification of objects using Handle System
  - based on the XML paradigm of strict separation of content and presentation

# GAMS: An Infrastructure for Research Projects in the Digital Humanities



**GAMS**  
*Humanities' Asset Management System*

DE | EN

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All projects

Gloss-ViBe

About GAMS

GAMS is an OAIS compliant and certified asset management system for the management, publication and long-term archiving of digital resources from the Humanities. It enables scholars, researchers and students to manage and publish resources from projects with permanent identification and enriched with metadata.

» more

**CLARIN B CENTRE**

**CORE TRUST SEAL**

Hugo Schuchardt Archive

Digitale Erinnerungslandschaft

# GAMS: An Infrastructure for Research Projects in the Digital Humanities



- Our projects range from Digital Scholarly Editions, to Image Collections and Language Corpora
- Digital objects are handled by one FEDORA instance
- In-house developed Java client for ingesting and managing large-scale digital object collections
- FEDORA allows to handle standardised, distributed workflows via Content Models

# Content Models



- Structural definition for a “type” of digital object (e.g., manuscript, artifact, ontology, etc.)
- Class definition with
  - Predefined (but growable) set of data streams
  - Set of dissemination methods for the objects
- Workflows triggered during ingest or request of an object content/method
- Set of rules for creating a digital object

# Content Models



## ○ Incomplete list of

- CMs supporting specific XML schemata
  - TEI
  - LIDO
  - MEI
  - METS
  - SKOS
  - OWL
- CMs for static content
  - PDF
  - Resource
- CMs for aggregated content
  - Context
  - Query
  - R

# An example: Gloss-ViBe

<https://gams.uni-graz.at/glossvibe>

UNI  
GRAZ

The screenshot shows the homepage of the Gloss-ViBe project. At the top left is a circular logo for 'GlossV.i.Be'. To its right is the title 'Early Medieval Glosses And The Question Of Their Genesis' and a subtitle 'A Case Study On The Vienna Bede'. On the far right are logos for 'EU MARIE CURIE ACTIONS' and 'UNI GRAZ'. A dark brown navigation bar below the title contains links for 'Home', 'About ▾', 'Edition ▾', 'Glosses ▾', and 'Visualisations ▾'. The main content area features a heading 'Gloss-ViBe' and a paragraph about the early medieval period and the project's focus on the Vienna Bede manuscript. It also lists other manuscripts studied, including the Vienna National Library Codex 15298 and others from Angers and Karlsruhe. Below this is another paragraph about the project's methodology and the manuscripts it studies.

**Gloss-ViBe**

The early medieval period is marked by constant interchange and multicultural relationships, and has significantly shaped Western intellectual history. During this time Irish scholars started to annotate texts, i.e. underlining, highlighting, glossing etc. – techniques that quickly spread across the European continent.

The MSCA-IF project *Early Medieval Glosses And The Question Of Their Genesis: A Case Study On The Vienna Bede* ([Grant agreement ID: 101019035](#)) studies the early medieval Celtic glossing tradition on the Venerable Bede's *De Temporum Ratione* investigating the Celtic and Latin glosses found in its main manuscript:

- [Vienna, Österreichische Nationalbibliothek, Codex 15298 \(Olim Suppl. 2698\)](#) = BVi

The project explores the manuscript using methodologies from digital humanities, philology, and linguistics to establish the first comprehensive digital documentary edition, including the primary text and all the glosses and annotations found in the Vienna Bede. Additionally, also parallel glosses from the following three manuscripts are recorded:

- [Angers, Bibliothèque municipale 477](#) = Ang
- [Karlsruhe, Badische Landesbibliothek, Augiensis pergamentum 167 \(olim Codex Augiensis CLXVII\)](#) = BCr

Close-up folio 3r of ÖNB/Wien, Codex 15298

# Gloss-ViBe



- Transcription of the manuscript using the TEI schema
- During the ingest of the TEI document:
  - Upload of facsimile of the manuscript
  - Extraction of RDF triples from the TEI document and storing in Blazegraph triplestore
  - Extraction of descriptive metadata
  - Creation of IIIF manifest based on the structure information

# Gloss-ViBe: text representation



<pb facs="#IMAGE.1" n="fol. 1r" type="manuscript"/>  
<cb facs="#facsc\_1\_region\_1624279312892\_211" n="margin\_left"/>  
<pb ed="Jones" n="296" type="edition"/>  
<div n="VII. De Nocte" type="chapter" xml:id="VII">  
    <ab>  
        <gloss facs="http://gams.uni-graz.at/iiif/o:glossvibe.bvi/IMAGE.1/153,538,128,189/full/0/default.jpg" ana="#sga" subtype="monolingual" target="#Jon\_297\_25a">  
            <ref target="https://archive.org/details/thesauruspalaeh02stokouft/page/31/mode/1up" type="Thesaurus">Thes.ii.31.1a1.2</ref>  
            <ref target="https://chronhib.maynoothuniversity.ie/chronhibWebsite/tables?page=0&limit=0&fprop=Text\_Unit\_ID&fval=S0058-2&dtbl=morpholog">  
            <ref target="https://digital.onb.ac.at/RepViewer/image?doc=DTL\_8650790&img=00000008.jpg&hash=5af078d0f16827f232e850ab1bec13c59557c6cc26f19236e380f">  
            <app>  
                <lem>  
                    <lb facs="#facsc\_1\_line\_1626430349497\_771"/><w lemma="is\_1" msd="3pl.fut." pos="VERB" xml:id="BVi.01a09a.02.0">bi<supplied reason="Ink stain">it</supplied>  
                    <lb facs="#facsc\_1\_line\_1626430353217\_776"/><schoice><expan>i</expan><abbr><am><g ref="#sub-i"/></am></abbr></choice></schoice><w lemma="inm" msd="3pl." pos="DET" />  
                    <lb facs="#facsc\_1\_line\_1626430357354\_781"/><w lemma="i" msd="dat." pos="ADP" xml:id="BVi.01a09a.02.3a">i</w><w lemma="in\_1" msd="dat.sg.masc." pos="DET" />  
                    <lb facs="#facsc\_1\_line\_1626430360833\_786"/><w lemma="in\_1" msd="nom.sg.neut." pos="DET" xml:id="BVi.01a09a.02.5">in</w> <w lemma="sin" msd="nom.sg.neut" />  
                </lem>  
                <note target="#BVi.01a09a.02" type="translation">those will be alight around them in the air</note>  
                <note target="#BVi.01a09a.02" type="glossing"><w lemma="circumpo" msd="nom.sg.fem.participle." pos="VERB" xml:id="glBVi.01a09a.02.0">circumposita</w></note>  
                <rdg facs="https://iiif.irht.cnrs.fr/iiif/France/Angers/Bibliotheque\_municipale/B490076101\_MS0477/DEPOT/B490076101\_MS0477\_0053/5612,712,640,63/full/0/default.jp" />  
                <ref target="https://iiif.irht.cnrs.fr/iiif/France/Angers/Bibliotheque\_municipale/B490076101\_MS0477/DEPOT/B490076101\_MS0477\_0053/full/full/0/default.jp" />  
                <lb><w lemma="facio" lemmaRef="http://lila-erc.eu/data/id/lemma/102758" msd="3sg.pres.ind.pass." pos="VERB" xml:id="Ang.50a02c.0">fit</w> <w lemma="l">  
                </rdg>  
                <note target="#Ang.50a02c" type="translation">light is caused in them at this time</note>  
            </app>  
        </gloss>  
        <gloss facs="http://gams.uni-graz.at/iiif/o:glossvibe.bvi/IMAGE.1/162,1037,159,311/full/0/default.jpg" ana="#la" subtype="monolingual" target="#Jon\_297\_32a">  
            <ref target="https://digital.onb.ac.at/RepViewer/image?doc=DTL\_8650790&img=00000008.jpg&hash=5af078d0f16827f232e850ab1bec13c59557c6cc26f19236e380f">  
                <lb facs="#facsc\_1\_line\_1626430534252\_796"/><w lemma="uel" lemmaRef="http://lila-erc.eu/data/id/lemma/129695" pos="CCONJ" xml:id="BVi.01a19a.0"><choice><exp><lb facs="#facsc\_1\_line\_1626430538957\_801"/><w lemma="sedes" lemmaRef="http://lila-erc.eu/data/id/lemma/124005" msd="nom.sg.fem." pos="NOUN" xml:id="BVi.01a19a.1">copalis</w>  
                <lb facs="#facsc\_1\_line\_1626430543741\_806"/><w lemma="copalis" pos="NOUN" xml:id="BVi.01a19a.2">dida</w>  
                <lb facs="#facsc\_1\_line\_1626430547701\_811"/><w lemma="et" lemmaRef="http://lila-erc.eu/data/id/lemma/101542" pos="CCONJ" xml:id="BVi.01a19a.4"><choice><exp><lb facs="#facsc\_1\_line\_1626430553094\_816"/><w lemma="graecus" lemmaRef="http://lila-erc.eu/data/id/lemma/55835" msd="nom.sg.masc." pos="NOUN" xml:id="BVi.01a19a.5">pretatur</w>  
                <lb facs="#facsc\_1\_line\_1626430559094\_821"/><choice><exp>ter</exp><abbr><am>t<g ref="#comb-tilde"/></am></abbr></choice><choice><exp>pretatur</exp></choice>  
                <lb facs="#facsc\_1\_line\_1626430561958\_826"/><w lemma="dida" pos="NOUN" xml:id="BVi.01a19a.6">dida</w>  
                <note target="#BVi.01a19a" type="translation">or the apse of the bishop's seat and ??? Greek and it is interpreted as bright</note>  
                <note target="#BVi.01a19a" type="glossing">???</note>  
        </gloss>  
    </ab>

xml|TEI|

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## XI. De Mensibus

Jones (1977): 306-319

2ra1

2ra2 decimbris decimus

2ra3 duodecimus adar martio simili ratione

2ra4 comparatur. Quos uidelicet menses propter lunae

2ra5 circulum *qui* xxviiii diebus semis constat tricensis

2ra6 undetricenisque diebus alternantes. secundo demum uel tertio

BVi.02a06.18b gl. undetricenisque *ocus* noich tech inso  
marginal diebus:

'and this (is) a period  
of twenty-nine days'

CorPH  
PALEOIBERNICUM

THESaurus  
PALAEOHIBERNICUS

2ra7 anno exacto mensem superflum qui ex annis .xi.

2ra8 epactarum diebus confici solet interkalant. unde nonnullo mo

2ra9 ueor scrup lo· quomodo maiores nostri diem qua lex

2ra10 data est quae est tertia mensis tertii· lgesimam ab ag

BVi.02a10 gl. tertia: di es 'day'  
interlinear

2ra11 ni occisione computent. ponentes uidelicet primi men

Expansions

Abbreviations

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# Gloss-ViBe: text & facsimile representation



```
<mets:mets xmlns:mets="http://www.loc.gov/METS/" xmlns:t="http://www.tei-c.org/ns/1.0" xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.loc.gov/METS/ http://www.loc.gov/mets/mets.xsd">
  <mets:mdSec ID="DMD.1">
    <mets:xmlData>
      <mods:mods xmlns:mods="http://www.loc.gov/mods/v3" version="3.5" xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods.xsd">
        <mods:identifier type="urn">o:glossvibe.bvi</mods:identifier>
        <mods:titleInfo>
          <mods:title>Electronic transcription of Vienna, Österreichische Nationalbibliothek, Codex 15298 (olim Suppl. 2698)</mods:title>
        </mods:titleInfo>
        <mods:typeOfResource>text</mods:typeOfResource>
        <mods:genre authority="dct">text</mods:genre>
        <mods:accessCondition>Creative Commons BY-NC-SA 4.0</mods:accessCondition>
      </mods:mods>
    </mets:xmlData>
  </mets:mdWrap>
</mets:mdSec>
<mets:amdSec ID="AMD.1">
  <mets:rightsMD ID="RMD.1">
    <mets:mdWrap MDTYPE="OTHER" MIMETYPE="text/xml" OTHERMDTYPE="DVRIGHTS">
      <mets:xmlData>
        <dv:rights xmlns:dv="http://dfg-viewer.de/">
          <dv:owner>Karl-Franzens-Universität Graz</dv:owner>
          <dv:license>Creative Commons BY-NC-SA 4.0</dv:license>
          <dv:ownerSiteURL>http://www.uni-graz.at</dv:ownerSiteURL>
        </dv:rights>
      </mets:xmlData>
    </mets:mdWrap>
  </mets:rightsMD>
  <mets:digiprovMD ID="PMD.1">
    <mets:mdWrap MDTYPE="OTHER" MIMETYPE="text/xml" OTHERMDTYPE="DVLINKS">
      <mets:xmlData>
        <dv:links xmlns:dv="http://dfg-viewer.de/">
          <dv:reference/>
          <dv:presentation/>
        </dv:links>
      </mets:xmlData>
    </mets:mdWrap>
  </mets:digiprovMD>
</mets:amdSec>
<mets:fileSec>
  <mets:fileGrp USE="DEFAULT">
    <mets:file ID="IMAGE.1" MIMETYPE="image/jpeg">
      <mets:fLocat LOCTYPE="URL" xlink:href="https://gams.uni-graz.at/o:glossvibe.bvi/IMAGE.1"/>
    </mets:file>
  </mets:fileGrp>
</mets:fileSec>
<mets:xmlData>
```

METS

Metadata Encoding & Transmission Standard

VIII. De Hebdomadibus Septuaginta Propheticis

20 de ebdomadibus lxx profeticis  
21 Septima species hebdomadis est qua profeta Daniel utitur  
22 more quidem legis sept[e]nis annis singulas complectens  
23 ebdomadas sed noua ratione ipsos annos adbreuem  
24 duodenis uidelicet mensibus singulos dterminans. embolos  
25 mos uero menses qui deannuis xi epactarum diebus accrescere  
26 solent non lege patria tertio vel altero anno singulos adiciens.  
27 sed ubi adxiimum numerum augescendo peruenirent proutigro anno  
28 pariter inserens. Hoc autem fecit non ueritatis cognitionem quaeren  
29 tibus inuidendo. sed profetiae more ipsum querentium exercen  
profoetic eclesiae  
30 do ingenium: mallens utique margaritas afiliis clausas fruc  
tu  
31 tuoso sudore uestigari: quam profe,ssas aporcis fastidiosa  
n  
32 dispectione calcari: uerum ut haec apertius elucescant ipsa  
33 iam angeli adprofetam dicta uideamus: lxx inquit  
34 ebdomades adbreuiatae sunt super populum tuum et super urbem  
.a  
35 sanctam tuam consummetur praeuaricatio et finem accipiat

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# Gloss-ViBe: searchable list representation



```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:skos="https://gams.uni-graz.at/skos/scheme/o:oth/#" xmlns:t="http://www.tei-c.org/ns/1.0#" xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:dcterms="http://purl.org/dc/terms/" xmlns:gams="https://gams.uni-graz.at/o:gams-ontology#" xmlns:glo="http://gams.uni-graz.at/o:glossvibe.ontology#"
  xmlns:memor="https://w3id.org/irnerio/ontology/memo/" xmlns:lila="https://lila-erc.eu/ontologies/lila/" xmlns:ontolex="http://www.w3.org/ns/lemon/ontolex#"
  xmlns:powla="http://purl.org/powla/owl#" xmlns:void="http://rdfs.org/ns/void#">
  <void:Dataset rdf:about="https://gams.uni-graz.at/o:glossvibe.bvi">
    <dc:rights>https://creativecommons.org/licenses/by/4.0/</dc:rights>
    <dc:publisher>Institute Centre for Information Modelling, University of Graz</dc:publisher>
    <dc:date>Late 8th to early 9th century</dc:date>
    <dc:language>Medieval Latin</dc:language>
    <dc:language>Old Irish</dc:language>
    <dc:source>Wien, Österreichische Nationalbibliothek, Cod. 15298</dc:source>
  </void:Dataset>
  <rdf:Description rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi">
    <gams:isMemberOfCollection rdf:resource="http://gams.uni-graz.at/context:glossvibe"/>
    <rdf:type rdf:resource="http://gams.uni-graz.at/o:glossvibe.ontology#Source"/>
    <dc:title xml:lang="en">Electronic transcription of Vienna, Österreichische Nationalbibliothek, Codex 15298 (olim Suppl. 2698)</dc:title>
    <dc:creator>BedaVenerabilis, saint and monk (672/3-735)</dc:creator>
  </rdf:Description>
  <gl:Work rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
  <gl:Chapter rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#VII">
    <gams:isPartOf rdf:resource="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
    <glo:numberOfLines>56</glo:numberOfLines>
  </gl:Chapter>
  <gl:Chapter rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#VIII">
    <gams:isPartOf rdf:resource="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
    <glo:numberOfLines>91</glo:numberOfLines>
  </gl:Chapter>
  <gl:Chapter rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#VIII">
    <gams:isPartOf rdf:resource="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
    <glo:numberOfLines>26</glo:numberOfLines>
  </gl:Chapter>
  <gl:Chapter rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#XI">
    <gams:isPartOf rdf:resource="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
    <glo:numberOfLines>83</glo:numberOfLines>
  </gl:Chapter>
  <gl:Chapter rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#XII">
    <gams:isPartOf rdf:resource="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
    <glo:numberOfLines>126</glo:numberOfLines>
  </gl:Chapter>
  <gl:Chapter rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#XIII">
    <gams:isPartOf rdf:resource="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
    <glo:numberOfLines>29</glo:numberOfLines>
  </gl:Chapter>
  <gl:Chapter rdf:about="http://gams.uni-graz.at/o:glossvibe.bvi#XIV">
    <gams:isPartOf rdf:resource="http://gams.uni-graz.at/o:glossvibe.bvi#DTR"/>
    <glo:numberOfLines>38</glo:numberOfLines>
  </gl:Chapter>
```

RDF  
Resource Description Framework

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GlossID	Gloss	Translation	Lang.	Ling. Type	Gloss Type	Chapter	MS
<u>gl. ea libere quae tellure</u>							
<u>BCr.27a40</u> ⓘ	i. sidera uel spatia	'i.e. stars or spaces'	la	monolingual	marginal	VII	BCr
<u>BVi.01a06</u> ⓘ	sideera uel spatia	'stars or spaces'	la	monolingual	interlinear	VII	BVi
<u>gl. ideoque</u>							
<u>BVi.01a07</u> ⓘ	eo quorum qui	'the fact of which'	la	monolingual	interlinear	VII	BVi
<u>gl. circumposita</u>							
<u>Ang.50a02c</u> ⓘ	fit lumen ineis in hoc tempore.	'light is caused in them at this time'	la	monolingual	interlinear	VII	Ang
<u>BVi.01a09a.02</u> ⓘ	biit soil si impo issind air in sin:	'those will be alight around them in the air'	sga	monolingual	marginal	VII	BVi
<u>gl. nocte</u>							
<u>Ang.50a02a</u> ⓘ	ortimuil	'of the darkness'	obt	monolingual	interlinear	VII	Ang
<u>BVi.01a09b.01</u> ⓘ	dorchai	'dark'	sga	monolingual	interlinear	VII	BVi
<u>gl. non dubitas tametsi</u>							

Search the glosses

General search Search

Filter glosses Reset

Only glosses in  Ang  BCr  BVi  Sg

Parallels in  Ang  BCr  Sg  Any MS  No MS

Language  Old Irish  Old Breton  Latin  Latin & Old Irish

Linguistic type  monolingual  bilingual

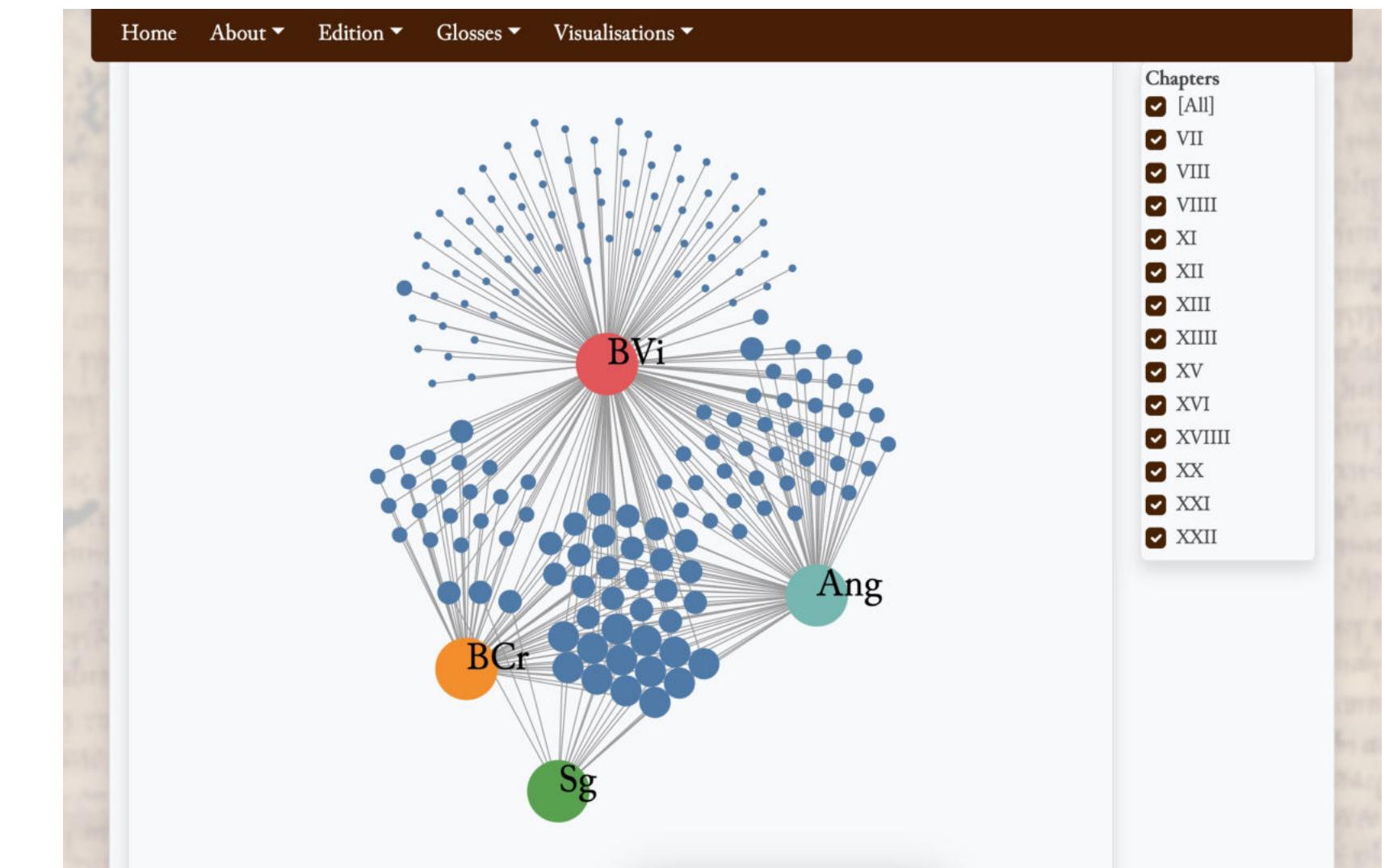
# Gloss-ViBe: visualisations



```
1  /*
2   * author: Jakob Sonnberger & Bernhard Bauer
3   * company: ZIM
4   * purpose: JS for creating stats based on
5   * - query:glossvibe.glosses4stats (language barchart)
6   * - context:glossvibe/NETWORKJSON (network chart)
7   * - query:glossvibe.parallelglosses4stats (parallel glosses barchart)
8   * last update: 2023
9  */
10
11 //run language barchart
12 function runLangChart(){
13   fetch('/archive/objects/query:glossvibe.glosses4stats/methods/sdef:Query/getJSON')
14     .then(result => result.json())
15     .then(resultJSON => createLangChart(sortMe(resultJSON, 'book', 'language'), '#langChart'));
16 };
17
18 //run parallel glosses barchart
19 function runParallelChart(){
20   fetch('/archive/objects/query:glossvibe.parallelglosses4stats/methods/sdef:Query/getJSON')
21     .then(result => result.json())
22     .then(resultJSON=>createParallelChart(resultJSON, '#parallelsChart'));
23 };
24
25 //run network chart
26 function runNetworkChart(){
27   fetch('/context:glossvibe/NETWORKJSON')
28     .then(result => { if (result.ok) return result.json() })
29     .then(resultJSON => createNetChart(resultJSON, '#netChart'));
30 };
31
32 //sorter function for language barchart
33 function sortMe(obj, sortBy, countBy) {
34   let x = obj.reduce(function (acc, item) {
35     let key = item[sortBy];
36     if (!acc[key]) acc[key] = {};
37     let myAcc = acc[key];
38     let myCount = item[countBy];
39     myAcc[myCount] ? myAcc[myCount]++;
40       : myAcc[myCount] = 1;
41     return acc
42   }, {});
43
44   let map = [];
45
46   for (let key in acc) {
47     let myAcc = acc[key];
48     let count = Object.keys(myAcc).length;
49     let max = Object.keys(myAcc).reduce(function (a, b) { return myAcc[a] > myAcc[b] ? a : b });
50     let maxCount = myAcc[max];
51
52     map.push({
53       book: key,
54       count: count,
55       max: max,
56       maxCount: maxCount
57     });
58   }
59
60   map.sort(function (a, b) {
61     if (a.book < b.book) return -1;
62     if (a.book > b.book) return 1;
63     if (a.count < b.count) return -1;
64     if (a.count > b.count) return 1;
65     if (a.max < b.max) return -1;
66     if (a.max > b.max) return 1;
67     if (a.maxCount < b.maxCount) return -1;
68     if (a.maxCount > b.maxCount) return 1;
69     return 0;
70   });
71
72   return map;
73 }
```

JS  
Javascript

20.02.204



TEI: Embedded Transcription

13

# Gloss-ViBe: transformation files

(XSLT – Extensible Stylesheet Language Transformation)



```
768
769 <xsl:when test="$mode = 'barchart'">
770   <section class="row gx-5 text-break">
771     <article>
772       <div>
773         class="card-body border shadow rounded bg-light rounded p-3">
774           <div class="row">
775             <div class="col-md-10">
776               <h3>Languages per Chapter in BVi </h3>
777             </div>
778             <div class="col-md-2">
779               <a type="button"
780                 href="/o:glossvibe.bvi/sdef:TEI/get?mode=about#bar"
781                 class="btn btn-secondary btn-sm rounded border-0 text-right"
782                 >More Information</a>
783             </div>
784           </div>
785           <div id="langChart" style="min-height: 500px"/>
786         </div>
787       </article>
788       <script>
789         $(document).ready(function(){runLangChart()});
790       </script>
791     </section>
792   </xsl:when>
793
794   <xsl:when test="$mode = 'parallelschart'">
795     <section class="row gx-5 text-break">
796       <article>
797         <div>
798           class="card-body border shadow rounded bg-light rounded p-3">
799             <div class="row">
800               <div class="col-md-10">
801                 <h3>Parallel Glosses</h3>
802               </div>
803               <div class="col-md-2">
804                 <!-- remove class disabled when fixed LINK ZU ABOUT-->
805                 <a type="button"
806                   href="/o:glossvibe.bvi/sdef:TEI/get?mode=about#par"
807                   class="btn btn-secondary btn-sm rounded border-0 text-right"
808                   >More Information</a>
809               </div>
810             </div>
811             <div id="parallelsChart" style="min-height: 500px"/>
812           </div>
```

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!-- TEI to RDF -->
3  <xslstylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
4    xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
5    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
6    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" xmlns:owl="http://www.w3.org/2002/07/owl#"
7    xmlns:skos="https://gams.uni-graz.at/skos/scheme/o:oth#" xmlns:t="http://www.tei-c.org/ns/1.0"
8    xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:dcterms="http://purl.org/dc/terms/"
9    xmlns:gams="https://gams.uni-graz.at/o:gams-ontology#"
10   xmlns:glo="http://gams.uni-graz.at/o:glossvibe.ontology#"
11   xmlns:memo="https://w3id.org/irnerio/ontology/memo/"
12   xmlns:lila="https://lila-erc.eu/ontologies/lila/"
13   xmlns:ontolex="http://www.w3.org/ns/lemon/ontolex#"
14   xmlns:powla="http://purl.org/powla/powla.owl"
15   xmlns:void="http://rdfs.org/ns/void#"
16   exclude-result-prefixes="xs xsd xsl" version="2.0">
17   <xsl:strip-space elements="*"/>
18   <xsl:preserve-space elements="t:ab"/>
19   <xsl:preserve-space elements="t:gloss"/>
20   <xsl:preserve-space elements="t:glossing"/>
21   <xsl:preserve-space elements="t:lem"/>
22   <xsl:preserve-space elements="t:rdg"/>
23   <xsl:strip-space elements="t:w"/>
24   <xsl:preserve-space elements="t:foreign"/>
25   <xsl:preserve-space elements="t:note"/>
26
27   <xsl:variable name="pid" select="//t:fileDesc/t:publicationStmt/t:idno[@type = 'PID']"/>
28   <xsl:variable name="server">http://gams.uni-graz.at/</xsl:variable>
29
30   <xsl:template match="/">
31     <rdf:RDF>
32       <void:Dataset rdf:about="https://gams.uni-graz.at/o:glossvibe.bvi">
33         <dc:rights>https://creativecommons.org/licenses/by/4.0/</dc:rights>
34         <dc:publisher>Institute Centre for Information Modelling, University of Graz</dc:publisher>
35         <dc:date>Late 8th to early 9th century</dc:date>
36         <dc:language>Medieval Latin</dc:language>
37         <dc:language>Old Irish</dc:language>
38         <dc:source>Wien, Österreichische Nationalbibliothek, Cod. 15298</dc:source>
39       </void:Dataset>
40       <rdf:Description rdf:about="{concat($server, $pid)}">
41         <gams:isMemberOfCollection rdf:resource="http://gams.uni-graz.at/context:glossvibe"/>
42         <rdf:type rdf:resource="http://gams.uni-graz.at/o:glossvibe.ontology#Source"/>
```

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**Hearth Tax**

Hearth taxes were levied in medieval and early modern Europe, notably in France and the Low Countries, but were not levied in the British Isles until the late seventeenth century. Following the Restoration of the Stuart monarchy in 1660, the hearth tax was levied in England and Wales from 1662 until 1689 (it continued to be collected in Ireland until the early nineteenth century). It was charged according to the number of fireplaces in dwellings, and it was collected twice each year at one shilling per hearth. It was also levied in Scotland in 1691 with collection lasting until 1695. The hearth tax provides a remarkably rich series of records on population, wealth distribution and poverty in a period of key political, social and economic change.

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Hints and improvements to: [A.Wareham@roehampton.ac.uk](mailto:A.Wareham@roehampton.ac.uk)

Further Informations

Dr Andrew Wareham  
British Academy Hearth Tax Project &

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