



Repetitive tasks are computer tasks

- Oxygen: Ctrl-F > select „regular expression“
- Mark up all words
 - Search for: \b(\w+)\b
 - Replace with <w>\$1</w>
- Mark up all lines
 - Search for \s{20}([\S].*?)\n
 - Replace with <l>\$1</l>\n

=> Regular Expressions are cool!



Frameworks

Giving you some „default“ output of your TEI

Georg Vogeler



There are many – for different purposes:

- Boilerplate** (<http://dcl.slis.indiana.edu/teibp/>)
- Versioning Machine** (<http://v-machine.org/>)
- TEI-Stylesheets** (<http://www.tei-c.org/Tools/Stylesheets/>)
- Edition Visualisation Tool (EVT, <http://evt-project.sourceforge.net/>)**
- TEIChi: a TEI lite integration into Drupal** (<http://teichi.org>)
- ...

Boilerplate

- XSL-Stylesheets for simple TEI rendering in the browser
 - Needs a XSL enabled Browser
 - Integrates some basic XSL with CSS and JavaScript
- How to:
 - Download and extract the files
 - (put your TEI file into the content folder)
 - add a reference to the master stylesheet to your TEI file:
`<?xml-stylesheet type="text/xsl" href="teibp.xsl"?>`
 - open your TEI file with a browser

file:///Z:/Docu..._Stefan_TEI.xml

file:///Z:/Documents/Uni/HistInf/ide/SummerSchoolDigEd/15Graz/Material/TEI-Boilerplate.m

Suchen

Toolbox

Hide page breaks

Themes:

Default

Stefan George Digital The edition of the lyrical works

The digital edition of the lyrical works of Stefan George

Das Jahr der Seele

page: [view page image\(s\)](#)

ERINNERUNGEN AN EINIGE ABENDE INNERER GESELLIGKEIT

Blumen

In märzentagen streuten wir die samen
Wann unser herz noch einmal heftig litt
An wehen die vom toten jahre kamen
Am letzten brennf dan sic und sonne stritt

What is processed?

- “Everything”: @*, *
- `tei:teiHeader//tei:title`
- `@rend`
- `@xml:id`
- References: `tei:ref[@target]`, `tei:ptr[@target]`
- Graphics: `tei:figure[tei:graphic[@url]]`
- Display descriptions: `tei:rendition[@xml:id and @scheme = 'css']`,
`tei:rendition[not(@xml:id) and @scheme = 'css' and @corresp]`
- Page breaks with image references: `tei:pb[@facs]`

Display defined in

- [teibp.css](#)
 - creates basic display information for e.g. `p`, `head`, `note`, `choice`, `add`
 - empty rule sets: e.g. `zone`, `am`, `index`, `g`, `handDesc`, `handShift` ...
- [custom.css](#)
- `<rendition>` elements with `@scheme="css"` within the TEI document
- `@rend` attribute to include inline CSS in TEI documents



How to encode page images

- Relative path to your master file
- E.g.: <pb n="42" facs="..//images/page057.jpg"/>



Your style definitions

- External css stylesheets:
 - [teibp.css](#) includes default styles for the HTML shell and TEI document.
 - [custom.css](#) is an empty stylesheet provided as a placeholder for user styles.
- <**rendition**> elements with `@scheme="css"` within the TEI document are used to generate CSS declarations understood by the browser.
- global `@rend` attribute: include inline CSS in TEI documents.



Template

- [teibp.xml](#)
- Use this as a start of a new TEI file gives you basic renditions and structure usable with the boilerplate
- Defines the following renditions:
bold, italic, underline, normal, mono, super, sub, lowercase, uppercase, capitalize, small-caps, block, block-margins, blockquote, blockquote, blockquote, codeblock, inline, center, left, right, justify, center-block, hang, l-indent-01, l-indent-02, l-indent-03, l-indent-04, l-indent-05, l-indent-06, l-indent-07, l-indent-08, indent, small, x-small, xx-small, large, x-large, xxx-large, bracket, bracket, bracket

Useful for digital editions?

- Transcription of primary sources
 - Add CSS instructions to transcription elements (e.g. [add](#), [single ex/am](#), [unclear](#), [damage](#) etc.)
- Critical apparatus
 - Add your own XSL templates
- Embedded transcription/text image linking
 - Add CSS instructions for [line](#) and transcription elements
 - Add your own XSL templates for detailed text image linking
- Indexing
 - Add your own XSL templates



TEI-Stylesheets

“This is a family of XSLT 2.0 stylesheets to transform TEI XML documents to various formats, including XHTML, LaTeX, XSL Formatting Objects, ePub, plain text, RDF, JSON; and to/from Word OOXML (docx) and OpenOffice (odt). They concentrate on the core TEI modules which are used for simple transcription and "born digital" writing.

It is important to understand that they do **not**:

- a) cover all TEI elements and possible attribute values
 - b) attempt to define a standard TEI processing or rendering model
- and should **not** be treated as the definitive view of the TEI Consortium.”

<https://github.com/TEIC/Stylesheets>

(unknown project)

<Incipit Liber Ordinarius Salisburgensis>

Table of contents

2. [DE UNDECIM MILIBUS UIRGINIBUS <21.10.>](#)

1.

935 Matutinale officium per omnia ut de apostolis. IV Regem apostolorum¹ euangelistarum. Dominum. PS Uenite. Lectiones de euangelistis Per Sanctum prophetie[?] Spiritum pennata animalia subtiliter describuntur. EV Designauit Dominus et alios septuaginta duos. {m.a. et nonum}

2. DE UNDECIM MILIBUS UIRGINIBUS <21.10.>

936 <AD UESPERAS> ANSimile est regnum celorum. (IV) PS Laude pueri. RB Audiui. HY Iesu corona uirginum. VS Letamini. AM Iste sunt prudentes uirgines. (VIII)²

937 <AD MATUTINUM> IV Regem regum. HY Iesu corona.

<IN PRIMO NOCTURNO> AN Insignes spouse Christi. (I) PS Beatus. AN Ipse uero integritatem. (VIII) PSQuare fremuerunt. AN Quarum mentium inhabitator. (II) PSCum inuocarem. VSLetamini in Domino. Assumantur lectiones sex³ de legenda passionis earum. RP Feliciter uirgines. VBeate de prelio. RP Has uirgines. V Nomen ergo sempiternum. RP Innumerabilis. V Ecce florentem.

938 IN SECUNDO NOCTURNO AN Sacratissima uirginitas. (IV) PSUerba. ANIgitur dum nimis hanc dilexit. (V) PS Domine Dominus. AN Una etenim fides sanctas. (VI) PS Domine quis. VS Exultent iusti. RP Simile est regnum. V Surrexerunt omnes. RP Quinque prudentes.V Tunc surrexerunt.RP Media nocte. V [\[Page 99ra\]](#) Fatue autem non.



How to get it?

- Built in the Oxygen TEI framework
- Download it <https://github.com/TEIC/Stylesheets> (more recent than the Oxygen built-in version, modifications in particular for critical apparatus)



How to use it?

- (Use the default Oxygen scenario)
- Create your own Framework
<http://www.tei-c.org/release/doc/tei-xsl/#oxygendev>
- Create a scenario
 - Copy the default scenario
 - Change the XSL URL to your local copy of the stylesheets:
{stylesheet-master-location}/html/html.xsl
- Add the stylesheet processing instruction to your TEI file
- Use the Oxgarage <<http://www.tei-c.org/oxGarage/>>
- Process it with your personal XSL processor

(unknown project)

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apostolorum] S; euangelistarum (VO)

] S; Da nobis Domine, Deus noster, sanctarum uirginum. (VO)

Assumantur lectiones sex] S; Sex lectiones assumantur de [weiter m.a.]sermone qui sic incipitur: Pergite itaque. (VO)

[Home](#)



“simple transcription”

- choice
- del, add, unclear, damage
- gap
- witList, witness

- app, rdg, lem
 - Does not work properly the 7.24.0 version distributed with Oxygen 16.1

- Currently not implemented:
 - Metamark, addSpan, delSpan



How to modify it?

- Create your own scenario and click on „edit“
- goto Parameter
- Explained at <http://www.tei-c.org/release/doc/tei-xsl/>
- Let's try it:
 - switch off table of content
 - pageLayout to Complex
 - filePerPage
- It's beta – and Sebastian Rahtz is adding features/fixing bugs almost once a week



Exercise

- Download the most recent TEI stylesheet package from <https://github.com/TEIC/Stylesheets> (“Download Zip” on the lower right corner)
- Extract it to a folder
- Create your conversion scenario
- Apply to the example in dropbox/frameworks/tei.xsl (or your personal file)
- Set parameters
 - Add some information on your Project
 - (add footnote back link)
 - change CSS stylesheet to the one in the dropbox/frameworks/tei.xsl



Versioning Machine

- Created by Susan Schreibman, version 4.0 2010
- Display versions of a text in parallel



e.g. George Herbert: The Altar

<http://v-machine.org/samples/altar.html>

The screenshot shows the v-machine interface with two parallel text editions side-by-side.

Top Bar: POWERED BY VM4.0, The Altar has 3 versions, New Version, Bibliographic Info, Line Numbers: checked, Popup notes, Index of texts.

Bibliographic Information Panel: The Altar, Original Source, Witness List (Williams MS. Jones B62, Bodleian MS. Tanner 307, The Temple: Sacred Poems and Private Ejaculations, first edition (Cambridge, 1633)), Electronic Edition Information, Responsibility Statement (Transcribed, encoded, and edited by Robert Whalen, Sponsored by Northern Michigan University and the National Endowment for the Humanities, Funding provided by Northern Michigan University and the National Endowment for the Humanities), Publication Details (Published by Robert Whalen for demonstration purposes only. May not be reproduced without permission..).

Witness 1: w (Left Column):

Line Number	Text
1	A broken Altar lord thy servant reares ⁿ
2	Made of a Hart and cimented wth teares
3	Whose parts are as thy hand did frame ⁿ
4	No workmans toole hath touch'd ye same
5	A Hart alone ⁿ
6	Is such a stone
7	As nothing but
8	Thy powre doth cutt . ⁿ
9	Wherefore each part
10	Of my hard hart
11	Meets in this frame ⁿ
12	To praiſe thy name
13	That if I chance to hold my peace
14	These ſtones to praiſe thee may not ceafe ⁿ
15	O lett thy enely bleſſed ſacrifice bee mine, ⁿ
16	And ſanctifie this Altar to bee thine. ⁿ

Witness 3: p (Right Column):

Line Number	Text
1	A broken A L T A R, Lord, thy fervant reares, ⁿ
2	Made of a heart, and cemented with teares :
3	Whofe parts are as thy hand did frame; ⁿ
4	No workmans tool hath touch'd the fame
5	A H E A R T alone ⁿ
6	Is fuch a fone,
7	As nothing but
8	Thy pow'r doth cut. ⁿ
9	Wherefore each part
10	Of my hard heart
11	Meets in this frame, ⁿ
12	To praiſe thy name.
13	That if I chance to hold my peace,
14	These ſtones to praiſe thee may not ceafe. ⁿ
15	O let thy bleſſed S A C R I F I C E be mine, ⁿ
16	And ſanctifie this A L T A R to be thine. ⁿ



Versioning Machine

- Created by Susan Schreibman, version 4.0 2010
- Display versions of a text in parallel
- select versions
- link between lines
- notes for transcriptional markup and philological commentary (as pop up, as separate pane)



How to use

- Download zip from <http://v-machine.org/download.php>
- extract to your preferred folder
and put your TEI file into the sample folder
- reference to the vmachine-Stylesheet located in v-machine-2/src/,
 - direct display by adding
`<?xml-stylesheet href=..../src/vmachine.xsl" type="text/xsl" ?>`
or
 - create as transformation scenario e.g. in oXygen



Displays

- partial header information
 - `fileDesc/titlStmt` and `fileDesc/publicationStmt`
 - `notesStmt`
 - `sourceDesc`
 - `encodingDesc/projectDesc`, `encodingDesc/editorialDecl`
- Transcription like `add`, `del`, `choice` (with mouse-over-effect)
 - without a predefined style: `<gap>`, `<damage>`, `<unclear>`, `<supplied>`,
`<restore>`, `<space/>`, `<handShift/>`
- predefined types: *biographical*, *physical*, *gloss*, *critical*, *contextual*
 - e.g. for notes



Images

- use **facsimile/graphic** with @xml:id:

- <facsimile>
 <graphic xml:id="f0031"
 url="images/george_seele_1897_HS_0025.jpg"/>
 <graphic xml:id="f0032"
 url="images/george_seele_1897_HS_0026.jpg"/>
 <graphic xml:id="f0033"
 url="images/george_seele_1897_HS_0027.jpg"/>
</facsimile>



Versions

- based on
 - parallel segmentation encoding or
 - location referenced of variants (needs vmachine_evfl.xsl styling)
- internally encoded
- to be defined in the [teiHeader/encodingDesc/variantEncoding](#)
- Needs [listWit](#) with [witness](#) definitions
- even nested apparatus



Some fancy stuff

- line numbering when using `<l>`
- `witDetail` for witness specific notes in the critical apparatus
- Customising
 - `src/vmachine.css`



Let's try it

- Download and extract the versioning machine <http://v-machine.org/download.php>
- Download the files from dropbox/frameworks/versioning-machine and copy them into the samples folder of the versioning machine
- create a transformation scenario in Oxygen
- open the George example in the sample folder and execute it with the transformation scenario
- Do it with your own data
 - Check if you have used encoding for a critical apparatus, if not invent one
 - check if you have described your witnesses in a **listWit** anywhere in the document
 - check if your images references are encoded as facsimile/graphic

Edition Visualisation Tool

- Aims at nice display for text-image-linking
- Used for the Verceli Book edition <<http://vbd.humnet.unipi.it/beta/>>
- <<http://sourceforge.net/projects/evt-project/>>
- Roberto Rosselli Del Turco, Giancarlo Buomprisco, Chiara Di Pietro, Julia Kenny, Raffaele Masotti, and Jacopo Pugliese, « Edition Visualization Technology: A Simple Tool to Visualize TEI-based Digital Editions », *Journal of the Text Encoding Initiative* [Online], Issue 8 - PREVIEW | 2014-2015, Online since 28 December 2014, connection on 31 March 2015. URL : <http://jtei.revues.org/1077> ; DOI : 10.4000/jtei.1077

Magnifier

HotSpot

TextLink

DOTR

104v

Interpretative

nume. 7. dōs my nebið. snotteri. rāwī. cūftrs. pyle
 nādī. nton. to ham bēfhan. nāp. cūnnon. hēgan. hēfhan.
 hēt. p. hēfhan. lōht. uppe. mid. ēnglum. ugn. mōtōn.
 sātum. to. gōce. hōmē. god. pīl. sōndum. bēf. 8. dē. gē.
 pīcān.

Hat ic spīna. oīt. sēgan. pyle. hēt. mēgē. mētē.
 to. mīd. pē. mīlītē. syðhan. pē. yd. bīfhan. pē. cūn. dōn.
 hūtē. mē. hēt. ic. gē. pāt. pīl. cūt. qāp. on. lyp.
 lēdān. lōht. bē. pūndūn. bāuma. bē. pīl. tōt. tāll. hēt.
 bācān. pāt. bē. gōtūn. mid. golde. gīmmay. fēdōn. pāgān.
 et. fōldān. sētām. s̄yfles. hēt. pīl. pāpōn. uppe.
 on. hām. aixle. gē. spānnā. bē. hēldōn. hēt. aigel. dīrht.
 nā. aille. pāgān. hūt. pōd. gē. sētāp. nāp. dāp. hūt.
 pīacōdē. gēlga. dē. hīm. hēt. bē. hēldōn. hālīt. gāfān.
 mē. opīp. mōldān. tāll. hēt. māp. gē. sētāp.

Syllic. pāt. p. 7. bām. tē. pīmū. pāt. p. pūndē.
 mid. pōmmū. gē. sētā. ic. pūld. pīf. qāp. pādūm. gē. pāpī.
 dōde. pīmū. scīnā. gē. s̄yfles. mid. golde. gīmmay. hēfđon.
 bē. pīgātē. pīpōlīcē. pāldēs. tāp. hēdāp. ic.
 hūt. hēt. gold. ongytan. mēhtē. tāp. māp. qāp.
 hēt. hēt. aqēst. ongan. spītan. on. hēt. spītan. hālīt.
 aille. pāt. mid. pūrgum. god. pīpēd. pōlēt. ic. pāt. pōp.
 hēt. pāgān. gē. pīl. dē. gē. pāl. ic. hēt. pīp. bācān.

7 HWæt ic swefna cyst secgan wylle hæt me gemætte
 8 to midre nihte syðjan reordberend reste wunedon.
 9 þuhte me hæt ic gesawe syllcre treow on lyft
 10 laedan leohete bewunden beama beorhtost eall hæt
 11 beacen wæs begoten mid golde gimmas stodon fægere
 12 æt foldan sceatum. swylce þær fife wæron uppe
 13 on þam eaxlegespanne beheoldon þær engel dryht
 14 nes ealle fægere þurh forogescaft ne wæs ðær huru
 15 fracodes gealga. ac hine þær beheoldon halige gastas
 16 men ofer moldan and eall þeos mære gesceaft.

17 **Syllic wæs se sigebeam and ic synnum fah forwunded**
 18 mid wommum geseah ic wuldres treow. wædum geweor
 19 ðode wynnum scinan gegyred mid golde gimmas hæfđon
 20 bewrigene weorōlice **wealdes** treow. hwætore ic
 21 þurh hæt gold ongytan meahte earmra ærgewin
 22 hæt hit ærest ongan swætan on þa swiðran healfē
 23 eall ic wæs mid **purgum** gedrefed. Forht ic wæs for
 24 hære fægran gesyhöe geseah ic hæt fuse beacen.