

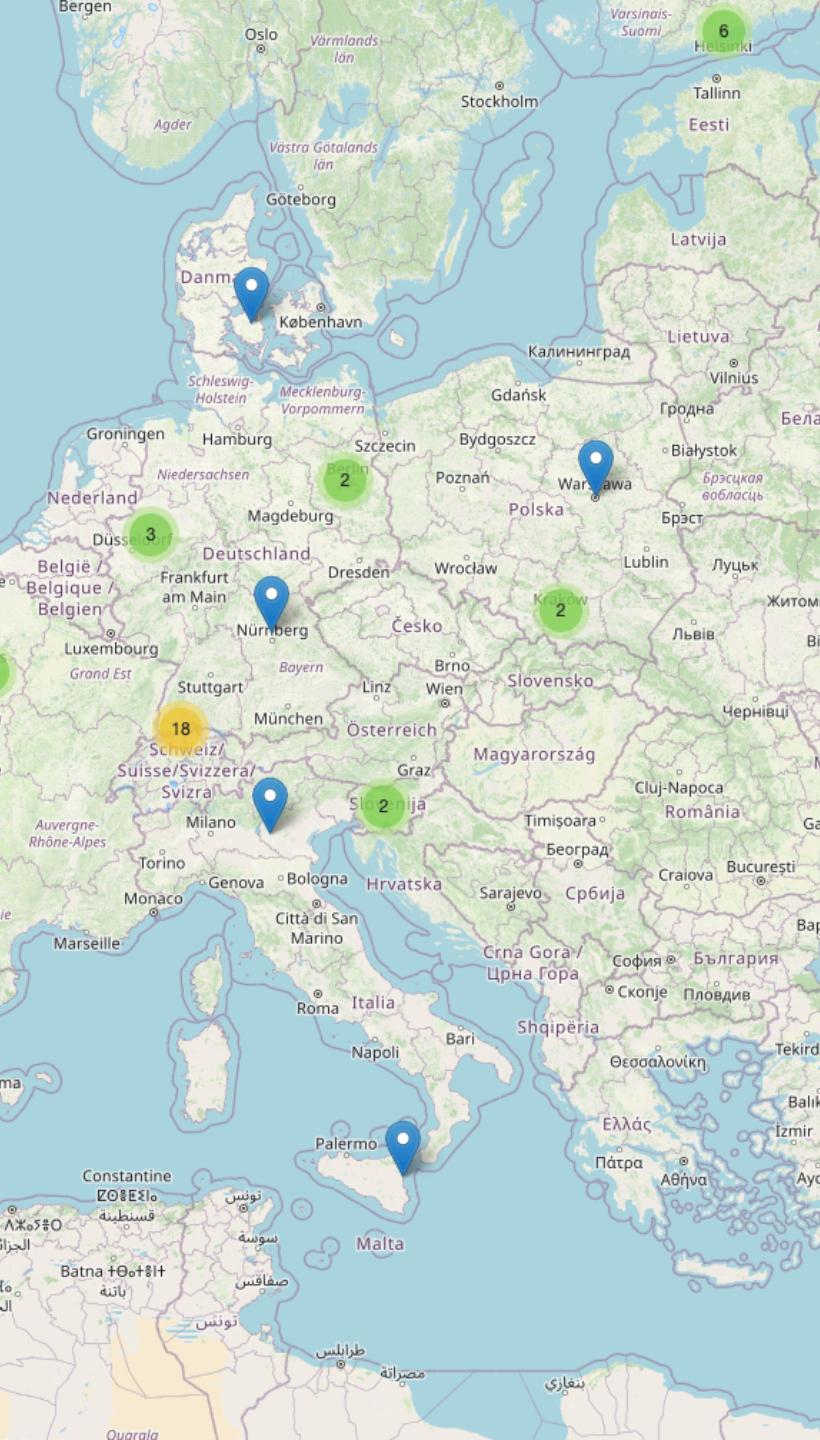
# TEI Publisher reloaded

**Digitale Editionen mit System – modular, nachhaltig, community-orientiert**

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# TEI Publisher

- started in 2015 as a reference implementation of the TEI Processing Model
  - evolved into a complete toolbox for publishing digital editions
  - grassroots community effort coordinated by e-editiones



# Vision

- "one-size fits all" rarely works in the humanities
- reusable, modular components to be rearranged and recombined
- sensible defaults where possible without limiting extensibility

# TEI Publisher 10

- extends the toolbox idea and moves it to the next level
- decomposes the core of TEI Publisher into a set of small, modular profiles, which can be customized and recombined to compose concrete applications

## Benefits

- for **editors**: many aspects covered by configuration plus TEI ODD, no coding required
- for **developers**: faster production of digital editions by reusing and customizing profiles; less copy and paste of code
- for **infrastructure providers**: provide tailored blueprints for an institution; clear update and maintenance path

# Profiles

- **Base:** a profile providing the core server-side API of TEI Publisher and basic page layout without styling
- **Feature:** a functional sub-profile. It adds specific functionality, e.g. docker configuration, IIIF viewer or a landing page
- **Theme:** provides styling for a particular look and feel. Without this, you only get very plain HTML website.
- **Blueprint:** a complete template for an application targeted at a specific use case like a monograph, correspondence edition, dictionary etc. It combines the base profile with a feature and theme selection and configuration.

- each profile covers a particular aspect
- it may depend on or extend other profiles
- all profiles and applications generated from them have the same organizational structure

## Blueprints

Preconfigured Packages

- feature selection
- features configuration (via predefined properties)
- dedicated ODD\* and CSS\*
- custom templates

## Themes

Visual Styling

- color palette
- illustrations, backgrounds
- font specifications
- logos and branding

## Features

Atomic Building Blocks

- timeline
- IIIF
- registers
- landing page
- custom navigation
- upload, JinnTap, Annotations
- static website
- DOCX, JATS, DocBook...

## Base

Core Elements

- teiPublisher.odd
- basic layouts
- search and facets
- navigation
- webcomponents
- common API
- localisation support
- predefined templates

## Jinks

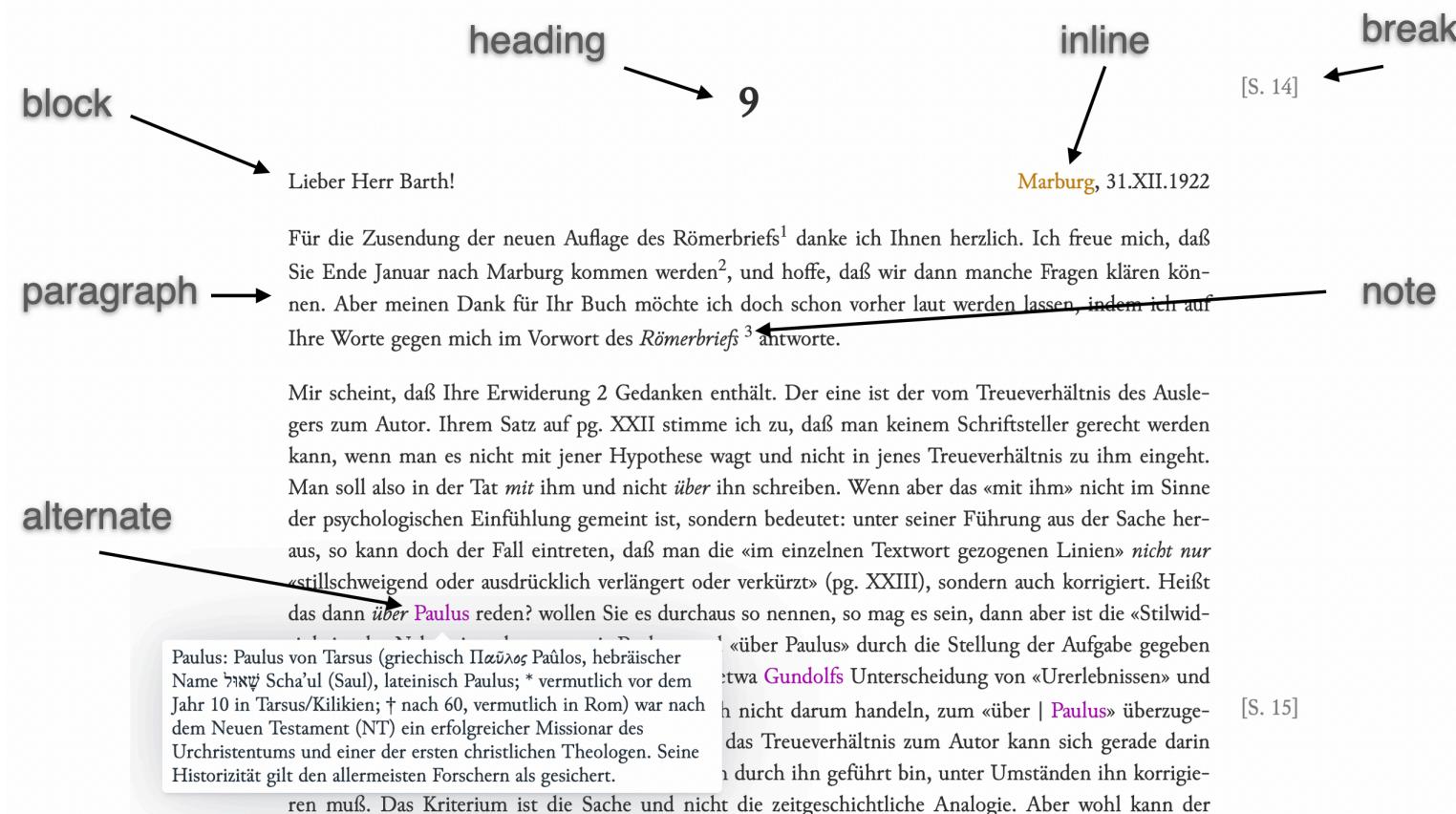
- central application manager of TEI Publisher: composes profiles into applications
- the composition is controlled by a central configuration file to which each profile contributes its settings
- updates to upstream profiles can be applied automatically
- local changes are tracked to avoid overwriting by upstream changes

# TEI Processing Model

- used for all textual transformations in TEI Publisher
- formalizes the description of transformation rules in TEI ODD
- officially part of the TEI Guidelines since 2016

# Behaviours

- abstract formatting actions
- media-agnostic



# Traversing the TEI

- traverse TEI from top to bottom
- root: entire document or part
- check for elementSpec
- test additional constraints/conditions
- apply first model matching

TEI Source

```
<TEI>
  <text>
    <body>
      <div type="chapter">
        <head>
          <p>
```

TEI Fragment

```
<div type="chapter">
  <head>
    <list>
      <item>
```

ODD

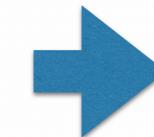
```
<elementSpec ident="div">
  <model predicate="@type='chapter'" behaviour="section">
    <model behaviour="block">
```

```
<elementSpec ident="head">
  <model behaviour="heading">
```

```
<elementSpec ident="list">
  <model behaviour="list">
```



HTML



FO

LaTeX    ePub

Name of the element processed by this spec

`<elementSpec ident="name" mode="change">`

`<model behaviour="inline">`

`<outputRendition>`

`color: #CC6600;`

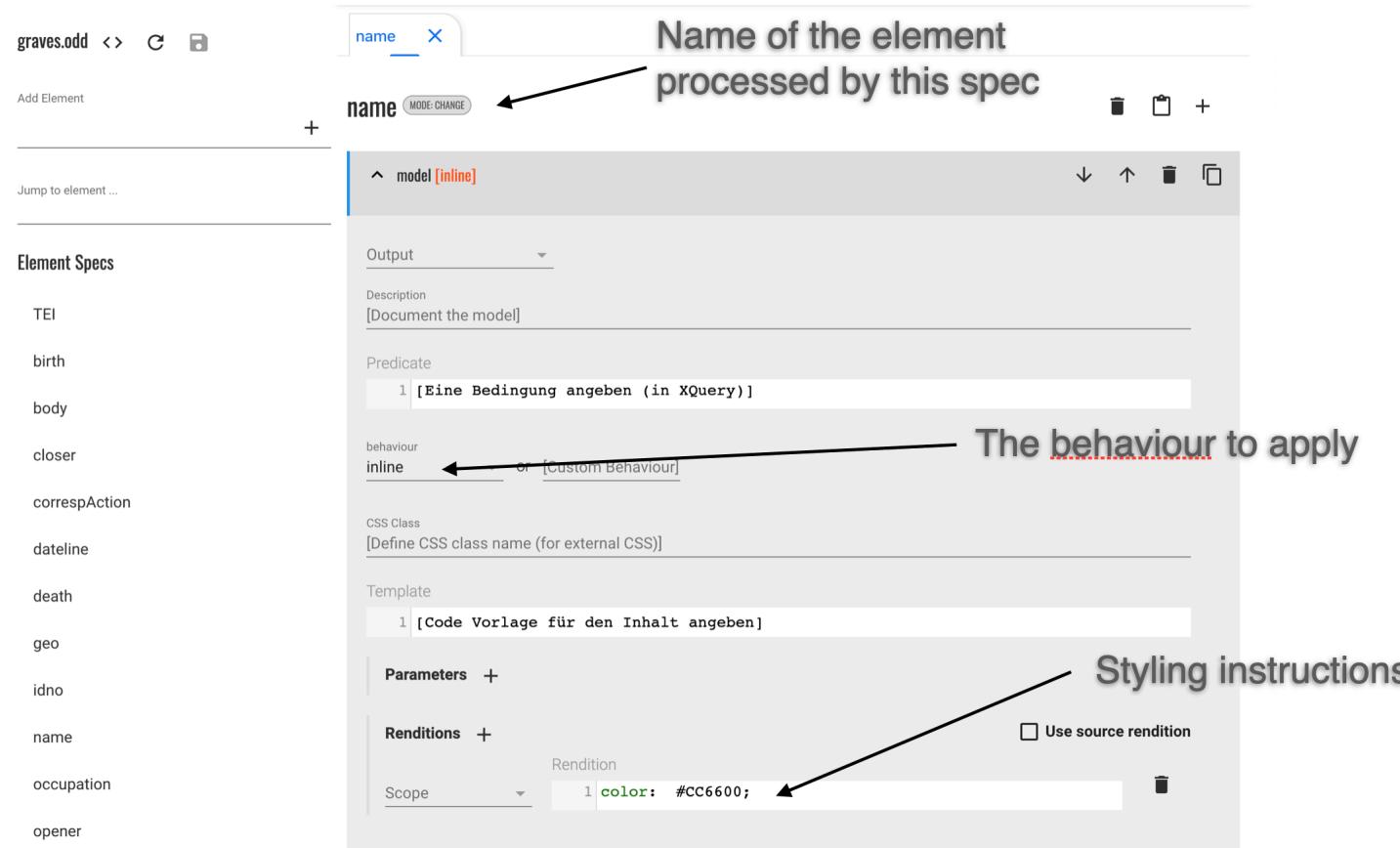
`</outputRendition>`

`</model>`

`</elementSpec>`

The behaviour to apply

Styling instructions



The screenshot shows the tei Publisher interface for specifying an element named "name".

**Name of the element processed by this spec:** name

**The behaviour to apply:** inline

**Styling instructions:**

```
1 | color: #CC6600;
```

**Element Specs**

- TEI
- birth
- body
- closer
- correspAction
- dateline
- death
- geo
- idno
- name
- occupation
- opener

**Add Element** +

**Jump to element ...**

**Output**

Description [Document the model]

Predicate

```
1 | Eine Bedingung angeben (in XQuery)
```

behaviour

inline ← or [Custom Behaviour]

CSS Class

[Define CSS class name (for external CSS)]

Template

```
1 | Code Vorlage für den Inhalt angeben
```

Parameters +

Renditions +

Use source rendition

Rendition

```
1 | color: #CC6600;
```

Scope

# Defining the Look: Using CSS

- to express styling, processing model uses CSS
- `outputRendition` : CSS properties for the current model
- describes editorial aspects, e.g. **bold**, *italic*, extra spacing or add [ ] to mark conjectures
- general styling and typography should be defined outside the ODD

# Basic CSS

Inline elements	Block elements
font-weight: bold;	margin: 10px 0;
text-decoration: underline;	padding: 10px 20px;
font-style: italic;	float: right   left;
color: blue;	text-align: center   justify   right;
font-variant: small-caps;	
font-size: large   larger   small   smaller;	

# Multiple Models

The predicate (= condition) to be met for this model to be applied

```
<elementSpec ident="name" mode="change">
  <model predicate="@type='place'" behaviour="inline">
    <outputRendition>
      font-variant: small-caps;
    </outputRendition>
  </model>
  <model behaviour="inline">
    <outputRendition>
      color: #CC6600;
    </outputRendition>
  </model>
</elementSpec>
```

Second (fallback) model

# Applying Models

- Only the **first matching model** will be applied. Simple and predictable!
- Matching means without any predicate or with a predicate for which its condition evaluates to true
- **Nota bene:** Any following models will be ignored even if they match

# Predicates

- In the `@predicate` attribute we establish the condition that must be met for that model to be applied
- The value of `@predicate` is an XPath expression

**XPath:** expression language for XML

# XPath Primer

- `epigraph/cit` – select epigraph child of context node, then cit child
- `./epigraph/cit` – same as above. “.” selects context node
- `parent::cit` – select parent node (it if is a cit)
- `ref/@type="can"` – select ref child with attribute type = “can”
- `ref/@type='can'` and `parent::cit` – boolean condition
- `placeName[@type = 'full']` – select placeName matching condition `@type="full"`
- `number(substring(@xml:id, 2))` – applying functions to attribute `xml:id`
- `'Hello ' || @target` – string concatenation

# Page Layout and Theming

- all styling is handled by theme profiles
  - TEI Publisher base only provides an *abstract page layout*
  - profiles may inject UI fragments into defined areas

The screenshot displays the TEI Publisher application interface across three main horizontal sections: 'header', 'content-top', and 'after-top'.

**Header Section:**

- Top left: tei Publisher logo, Start, Dokumentation, Administration dropdown, search bar, and user profile.
- Top center: 'header' label.
- Left sidebar:
  - Sortiere nach: Category
  - Suchbereich: Content
  - Genre:
    - Drama
    - Let... before
    - Lexicons and Dictionaries
    - Prose
  - Sprache: English, French, German, Polish, Spanish
- Image by Fleepik

**content-top Section:**

- Section title: Dokumentation
- Description: Dokumentation, verfasst in Docbook XML.
- Image by Fleepik
- Section title: Demo Collection
- Description: content
- Image by Annie Spratt on Unsplash
- Section title: JATS Samples
- Description: Examples using JATS (the Journal Article Tag Suite).
- Image by Fleepik
- Section title: DOCX Import
- Description: Example and documentation for importing DOCX to TEI via ODD.
- Image by Fleepik

**after-top Section:**

- Anmelden als "tei" mit Passwort "simple" um mit eigenen Dateien und ODDs zu experimentieren
- ODD Dateien:
  - Bogactwa mowy polskiej: Polish dict... after
  - DOCX Import: Import transformation to convert DOCX to TEI.
  - DOCX Output Preview: A test ODD to preview TEI imported from Word docx.
  - Deutsches Textarchiv: A simple ODD to render documents encoded according to the
  - Docbook v5: Processing of Docbook format
- Places:
  - header
  - Places
  - Herunterladen
  - Administration
- Image by Fleepik
- Search bar: Suche nach
- Buttons: de, log out
- Content:
  - Magnifico domino Nicolao Seraphin vtiusque salis zuppario Cracouiensi et Rusie, domino michi fauoro.
  - Fidelium seruiciorum prontitate continua cum obediencia premissa. Magnifice domine. Precepit michi Vestra Gracia scriptotenus, [quod] ducem Kazimirum in trecentis cum quinquaginta marcis deberem expedire. Quod mandatum ducerem lib[enter], sed deficit causa nam guerrarum continua propter disturbia<sup>1</sup> pauci mercatores, tam salis, qu[am] [...] videntur pertransire et, per consequens, pauca pecunia datur theoloneorum, ob quem defectum et n[ostros] tu habeo vnde expedire ipsorum annuis in salariis. Ve exequens mandata in cras[tino], presentium literarum vestrarum post presentacionem, ducem prefatum ausau sibi sexaginta marcas offerendo pro [...] pecuniis, solucionis terminos petens prorogari, petens dari per Ipsius Claritatem semiambulato[rem] promissum, qui si dabitur, protinus Vestre Gracie destinabo eundem describens, quomodo michi succedit in [...]. Parvum vadit theoloneum, tamen reuerendos dominos archiepiscopum et canonicos Leopolienses necnon episcopum [...] in duplicitibus Quatuortemporibus<sup>2</sup> totaliter expediui, fulgidumque ducem Andruschkonem in quatuor [...]. Et pro nunc me dominus capitaneus ammonet Leopoliensis pro
  - content
  - Wielmożnemu Panu Mikołajowi Serafinowi żupnikowi obojga salin krakowskiego i Rusi, Panu mi przychylnemu.
  - Z niezmiennym posłuszeństwem przesyłam gotowość do wiernej służby. Wielmożny Panie. Polecił mi na piśmie Wasza Łaskawość, abym wypłacił księciu Kazimierzowi 350 grzywien. Chętnie wypełniłbym to polecenie, lecz nie mam jak, albowiem z powodu ciągłego zamieszania wojennego niewielu kupców przyjeżdża, tak po sól, jak [...], a co za tym idzie, mało pieniędzy wpływa z ch i tego powodu nie mam skąd wziąć na wypłaty dla naszych opiekunów. Pozostawiając na ujawnienie waszych poleceń, po przedstawieniu ostatniego waszego listu zawiadomiłem rzeczonego księcia, dając mu 60 grzywien za [...] pieniądze i prosząc o odroczenie terminu zapłaty i o to, aby Jego Księążca Wysokość dał przyznanego podjezdu. Jeśli zostanie on dany, od razu wyśle go do Waszej Łaskawości, pisząc, jak mi poszło w [...]. Cła mało schodzi, wypłaciłem jednak wielebnym panom arcybiskupowi i kanonikom lwowskim oraz biskupowi [...] podwójne Suche Dni, zaś jaśnie księciu Andruszce cztery [...]. Tymczasem upomina mnie pan starosta lwowski w sprawie 120 grzywien, mówi [...] o cle, gdybym miał mu tych pieniędzy nie zapłacić. Ponadto polecił mi Wasza Łaskawość, abyem
- Image by Fleepik
- Map of the area around Grodziec, Poland, showing roads and landmarks.

## e-editiones

- non-profit organization founded in 2020
- limited budget: membership fees only!
- development mainly cross-financed by the edition projects
- TEI Publisher 10 was primarily supported by

