

# Schemas and experiences from modeling German CMC Corpora in TEI



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# TEI schema drafts of the SIG: Some basic features

## DeRiK schema (Beißwenger, Ermakova, Geyken, Lemnitzer, Storrer 2012):

- Introduction of an element model `<post>` for written user contributions to CMC interactions which combines features of text divisions and spoken utterances.
- Adaptation of the existing element model `<div>` for the representation of CMC threads and logfiles.
- Introduction of diverse models for CMC phenomena below the `<post>` level.

## CoMeRe schema (Chanier, Poudat, Sagot, Antoniadis, Wigham 2014):

- Introduction of an element `<prod>` for the representation of non-verbal acts
- (re-)efinition of `<post>`, `<prod>` and `<u>` as models which may be combined within one interaction. ⇒ [make the schema fit for multimodal CMC](#)

## CLARIN-D schema (Beißwenger, Ehrhardt, Herold, Lungen, Storrer 2015):

- [Reduction of new elements](#) through re-modeling some CMC-specific concepts from the previous schemas with „standard“ TEI
  - ⇒ [guiding principle: „reduce to the max“](#): introduction of new models and modification of existing models only for concepts which are needed *in any case*; for everything else: best practices for the use of existing models
- Definition of an [interface to part-of-speech annotations](#)

# CLARIN-D curation project «ChatCorpus2CLARIN»



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## ChatCorpus2CLARIN: Integration of the Dortmund Chat Corpus into CLARIN-D

### Project content

In the third curation project of the [CLARIN-D working group 1 "German Philology" \(F-AG 1\)](#) an existing corpus of computer-mediated communication (CMC), the Dortmund Chat Corpus, and samples of other CMC resources will be restructured to conform to current standards for the representation of corpora in the Digital Humanities context. The main goal of this work is to pave the way for the inclusion of linguistically annotated CMC resources into CLARIN-D corpus infrastructures and to create the prerequisites for investigating linguistic peculiarities of CMC with state-of-the art corpus technology. To this end, the project will (1) transform the metadata and the annotations of the chat corpus into a TEI-compliant format, (2) enrich the data by further linguistic annotations, and (3) integrate the resulting resource into the CLARIN-D Corpus Infrastructures at the [Institute for the German Language \(IDS\)](#) and the [Berlin-Brandenburg Academy of Sciences \(BBAW\)](#).

**Duration: 05/2015 – 02/2015**

### Project team:

- **Michael Beißwenger** (U Dortmund)
  - **Angelika Storrer** (U Mannheim)
  - **Eric Ehrhardt** (U Mannheim)
  - **Axel Herold** (CLARIN-D center at BBAW Berlin)
  - **Harald Lungen** (CLARIN-D center at IDS Mannheim)
- + other colleagues from IDS + BBAW providing support & expertise for specific work packages

# Levels of customization

*“Because the TEI Guidelines must cover such a broad domain and user community, it is essential that they be customizable: both to permit the creation of manageable subsets that serve particular purposes, and also to **permit usage in areas that the TEI has not yet envisioned.**”*

**customization<sub>0</sub>** = use existing modeling concepts (henceforth: models) according to a specific practice which is useful for your purpose *((adapt your needs to what the standard offers to you))*

**customization<sub>1</sub>** = change existing models so that they fit for your purpose *((adapt the standard to your needs))*

**customization<sub>2</sub>** = add new models *((extend the standard to fit for your needs))*

# The CLARIN-D Schema

## Customization<sub>2</sub>:

### **Introduction of specific models for CMC-specific concepts:**

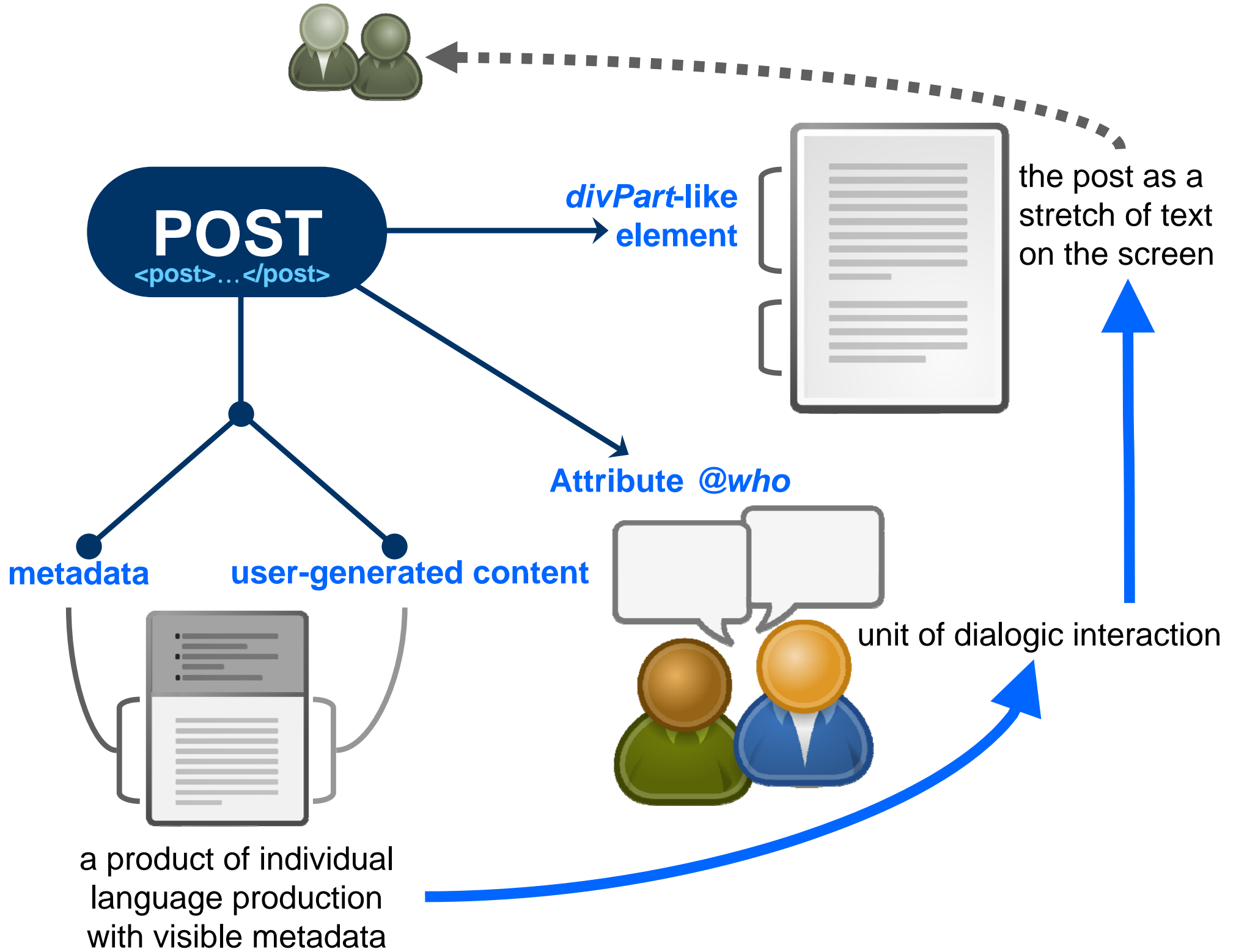
<post> and <prod> for different types of user contributions to cmc interactions (building on the DeRiK and CoMeRe schema and extending the <post> model with additional attributes).

## Customization<sub>1</sub>:

**Modification of standard models** which are used more flexible in CMC than in traditional written genres (e.g. letters) (building on and extending suggestions from the DeRiK schema).

## Customization<sub>0</sub>:

Definition of **best practices for the use of standard models** (without modification) – e.g.: use of <w> for the representation of PoS information.



# Extending the <post> model with attributes

*post* metadata which is automatically generated and displayed by the system:

## @correspAction

is used to specify the ‘sent|delivered|read’ status a post as given for posts in whatsapp dialogues.

Legal values are: *sent | delivered | read*

**cf.** the [element <correspAction> in the TEI standard](#) which is used for a structured description of the place, the name of a person/organization and the date related to the sending/receiving of a message or any other action related to the correspondence [TEI module [correspondence description](#)]:

# Extending the <post> model with attributes

*post* metadata preserving information about what the author or other users have done with the original post after it has been initially posted (= its revision history):

## @revisedBy

is used to refer to a person-ID in listPerson in the *teiHeader* and to specify the respective person as the one who created a revised version of the post by editing its original content.

## @revisedWhen

is used to refer to a date in the timeline as the date when a revision has been performed.



# Extending the <post> model with attributes

*post* metadata giving information that the researcher has reconstructed through interpretation and analysis:

## @replyTo

indicates to which previous post the current post replies or refers to.

⇒ optional attribute which can be used for the annotation of thread structures

# Two features of the CLARIN-D schema in more detail

1. Content models for a flexible usage of structural elements of letters and CMC messages
2. Attributes to mark system-generated content

# Structural elements of letters

## Lettre XXII

*De Madame de Tourvel à Madame de Volanges*

.....  
.....  
.....

J'ai l'honneur d'être, Madame, etc.

*P.S.*- Mme de Rosemonde & moi nous allons, dans l'instant, voir aussi l'honnête & malheureuse famille, & joindre nos secours tardifs à ceux de M. de Valmont. Nous le mènerons avec nous. Nous donnerons au moins à ces bonnes gens le plaisir de revoir leur bienfaiteur ; c'est, je crois, tout ce qu'il nous a laissé à faire.

De..., ce 20 août 17

*Source: [https://fr.wikisource.org/wiki/Les\\_Liaisons\\_dangereuses/Lettre\\_22](https://fr.wikisource.org/wiki/Les_Liaisons_dangereuses/Lettre_22)*

# Structural elements of letters

## Lettre XXII

*De Madame de Tourvel à Madame de Volanges*

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De..., ce 20 août 17

Source: [https://fr.wikisource.org/wiki/Les\\_Liaisons\\_dangereuses/Lettre\\_22](https://fr.wikisource.org/wiki/Les_Liaisons_dangereuses/Lettre_22)

# Structural elements of letters in the TEI

## Lettre XXII

*De Madame de Tourvel à Madame de Volanges*

.....  
.....  
.....

**<closer>**

**<postscript>**

J'ai l'honneur d'être, Madame, etc.

*P.S.*- Mme de Rosemonde & moi nous allons, dans l'instant, voir aussi l'honnête & malheureuse famille, & joindre nos secours tardifs à ceux de M. de Valmont. Nous le mènerons avec nous. Nous donnerons au moins à ces bonnes gens le plaisir de revoir leur bienfaiteur ; c'est, je crois, tout ce qu'il nous a laissé à faire.

De..., ce 20 août 17

**<signed>**

Source: [https://fr.wikisource.org/wiki/Les\\_Liaisons\\_dangereuses/Lettre\\_22](https://fr.wikisource.org/wiki/Les_Liaisons_dangereuses/Lettre_22)

# Structural elements of letters in CMC messages

```
<posting who="p_60" synch="t_6833">
  <cit> [_CITATION_] </cit>
  <p> <opener>Hallo,</opener> Unser Lavendel blüht zwar nicht ununterbrochen
das Jahr über aber doch mehrmals. Wenn es dir nur um das Ungeziefer[...]</p>
  <closer>Gruß Detlef</closer>
  <cit type="replyCit">
    <quote>Mir ist bewusst, dass das ziemlich [...]</quote>
  </cit>
</posting>
```

Source: *de.rec.garten, Usenet 5.10.2014*

Frequently in Wikipedia discussions, E-Mail or Usenet news:

- Message starts before *opener*, continues after *closer*, *signed etc.*
- *opener*, *closer* etc. embedded in paragraph, even sentence

# Structural elements of letters or CMC messages in the CLARIN-D Schema

```
<classSpec ident="model.floatP.cmc" type="model"
  module="cmc">
  <desc>includes the TEI elements opener, closer, signed postscript and
  trailer, to allow them to occur freely and multiply within the elements that
  have model.floatP.cmc as part of their content model. [...]</desc>
</classSpec>
```

## Definition of the model *model.floatP.cmc*

- collects TEI elements for structuring correspondence: *<opener>*, *<closer>*, *<signed>*, *<postscript>*, *<trailer>*
- is added to the content models for *<p>*, *<s>*, *<quote>*

# Two features of the CLARIN-D schema in more detail

1. Content models for a flexible usage of structural elements of letters and CMC messages
2. Attributes to mark system-generated content



# Attributes for marking system-generated content

**@auto:** a new attribute in att.global (type: data.xTruthValue)

**@who:** TEI attribute promoted to att.global

`auto="true" who="#user"`

content marked by the present element was auto-generated by the system, but user deliberately activated its insertion by typing a macro or clicking a button,

`auto="true" who="#system"`

content marked by the present element was auto-generated by the system uncontrolled by the user e.g. as a consequence of some other action

# Attributes for marking system-generated content

```
<cit type="replyCit">  
  <bibl type="introQuote" auto="true" who="#system"> Am 03.04.2015  
    um 05:46 schrieb Axel:</bibl>  
  <quote>Morgenstund hat Gold im Mund [...] </quote>  
</cit>
```

Am 03.04. 2015 um 05:46 schrieb Axel:  
> Morgenstund hat Gold im Mund [...]

auto-generated content: Usenet news:

user starts message as a reply to a previous message

# Attributes for marking system-generated content

```
<post type="event" auto="true" who="#system" rend="color:blue">  
  <p><name type="nickname">McMike</name> geht in einen  
    anderen Raum: <name type="roomname">Kreuzfahrt</name>  
  </p>  
</post>
```

McMike geht in einen anderen Raum: Kreuzfahrt

auto-generated message: Chat: user changes chat room

# Attributes for marking system-generated content

```
<signed auto="true" who="WU00005582">  
  <gap reason="signatureContent"/> <time auto="true"  
  who="WU00005582">18:50, 22. Okt. 2008 (CEST)</time>  
</signed>
```

-Peter2 (Diskussion) 18:50, 22. Okt. 2008 (CEST)

auto-generated signature: Wikipedia talk page:

user inserted his/her signature including a timestamp

---

## CMC Metadata

IRD: Social Media and CMC Corpora for the eHumanities  
October 23 / 24 2015, Rennes (FR)

## Types of metadata

Many different views on *metadata* are possible.

We want / do not want:

- ✓ resource description  
≈ intrinsic properties
- ✓ relation to the „real world“  
≈ extrinsic properties
- ✓ description of data (item) annotation

## Resource description

- ▶ owner
- ▶ hosting institution
- ▶ identifier(s)
- ▶ resource type
- ▶ encoding
- ▶ size
- ▶ creation date
- ▶ revision history
- ▶ documentation
- ▶ ...

This applies to all resources.

There is a solid framework within TEI.

Relation to the „real world“:  
computer mediated **communication**

TEI caters for **communication** (to some extent):

- ▶ /TEI/teiHeader/fileDesc/sourceDesc/listPerson  
(module namesdates)

```
<listPerson>
  <person xml:id="system">
    <persName>system</persName>
  </person>
  <person xml:id="A01">
    <persName type="nickname">Raebchen</
      persName>
  </person>
  <person xml:id="A02">
    <persName type="nickname">McMike</persName>
  </person>
</listPerson>
```



Relation to the „real world“:  
computer mediated **communication**

TEI caters for **communication** (to some extent):

- ▶ /TEI/teiHeader/fileDesc/sourceDesc/listPerson  
(module namesdates)
- ▶ limitations regarding properties of persons,  
e. g. (assumed) gender, participation in communities, ...
- ▶ //timeline (module linking)  
to maintain temporal order in non-linear communications

Relation to the „real world“:

computer mediated communication

TEI does not (yet) cater for computer mediation

- ▶ /TEI/teiHeader/fileDesc/sourceDesc/recordingStmt  
(module *spoken*)

```
<recordingStmt>
  <recording>
    <p>plattformName=Unicum
    plattformURL=http://www.unicum.de/chat
    recStart="HH-MM" recEnd="HH-MM" recBy="
      unknown"
    TNOM="758" TNOT="4101" view="ineli26 "</p>
    <date>1998</date>
  </recording>
</recordingStmt>
```

Relation to the „real world“:

computer mediated communication

TEI does not (yet) cater for computer mediation

- ▶ /TEI/teiHeader/fileDesc/sourceDesc/recordingStmt
- ▶ „legacy“ CMC specific metadata
- ▶ limitations regarding properties of the system / platform / environment (COMERE) (platformName, platformURL, ...)
- ▶ possible solutions within TEI:
  - ▶ /TEI/.../recordingStmt/environment/\*
  - ▶ /TEI/.../recordingStmt/fs/f (feature structures)
  - ▶ rely on external metadata descriptions
  - ▶ rely on (human readable) documentation

## Data (item) annotation

- ▶ TEI guidelines
- ▶ specific ODD
- ▶ documentation such as annotation guidelines

## Summary and Outlook

- ▶ metadata modeling in TEI  
using a mixture of explicit and implicit semantics  
needs amendments (CMC module vs. customization)
- ▶ CLARIN metadata model in CMDI  
(component metadata infrastructure)  
using explicit semantics

# CUSTOMIZING A TEI SCHEMA

TEI customizations are defined in so-called **ODD** Files:

„One Document Does it all“

TEI Consortium (2015): TEI: Customization. <http://www.tei-c.org/Guidelines/Customization/>

# CUSTOMIZING A TEI SCHEMA

To prepare you own TEI customization, you can

- Start from scratch
- Start using an existing customization
  - a) as provided by the TEI, e.g. *TEI light*, *TEI corpus*
  - b) as provided by yourself or a third party

e.g. the ODD provided by our project:

[TEI\\_CMC\\_CHATCORPUS2CLARIN.odd](#)

# CUSTOMIZING A TEI SCHEMA

## HTTP://WWW.TEI-C.ORG/ROMA/

TEI Roma: generating customizations for the TEI

TEI Roma is a tool for working with TEI customizations. A TEI customization is a document from which you can generate a schema defining which elements and attributes from the TEI system you want to use, along with customized HTML or PDF documentation of it. The schema generated can be expressed in any of DTD, RELAXNG W3C Schema or Schematron languages.

You can make or modify your TEI customization in several different ways:

- Build up: create a new customization by adding elements and modules to the smallest recommended schema
- Reduce: create a new customization by removing elements and modules from the largest possible schema
- Create a new customization starting from a template
- Use or modify an existing TEI-defined customization
- Upload a customization

Community-maintained customizations can be downloaded from [the TEI website](#)

**Start**

A TEI customization is informally referred to as an ODD (for "One Document Does it all")

Roma was written by Arno Mittelbach and is maintained by Sebastian Rahtz. Sanity check written by Ioan Bernevig. Please direct queries to the [TEI@Oxford](#) project.



# CUSTOMIZING A TEI SCHEMA OXYGEN XML EDITOR

The screenshot shows the Oxygen XML Editor interface with the following components:

- Main Editor:** Displays XML code for an `elementSpec` with `ident="post"`, `mode="add"`, and `module="cmc"`. The code includes a `<desc>` element with a detailed description of a 'post' element in a chat context, and a `<classes>` section listing various attributes like `att.post.cmc`, `att.ascribed`, etc.
- Outline (Left):** Shows a tree view of the schema structure, including `TEI`, `moduleSpec`, `schemaSpec`, and `elementSpec`.
- Attributes (Right):** Lists attributes for the selected `elementSpec`, such as `ident` (value: post), `mode` (value: add), and `module` (value: cmc).

# USING A TEI SCHEMA FOR ANNOTATING CMC DOCUMENTS IN OXYGEN

To use a TEI customization for the (re-)annotation of CMC data, derive a schema, e.g. Relax NG, from the ODD file

[TEI\\_CMC\\_CHATCORPUS2CLARIN.rng](#)

then

- Case 1: start a new TEI document from the schema
- Case 2: associate an existing TEI document with the schema

# CASE 1: START A NEW TEI DOCUMENT FROM SCHEMA

The screenshot shows a software interface with a 'New' dialog box open. The dialog box is titled 'New' and contains the following fields and options:

- Name:** XML Document
- Extension:** xml
- Schema URL:** i\_CMC\_CHATCORPUS2CLARIN.rng
- Schema type:** RelaxNG XML syntax
- Public ID:** (empty)
- Namespace:** http://www.tei-c.org/ns/1.0
- Prefix:** (empty)
- Root Element:** TEI
- Description:** (TEI document) contains a single TEI-conformant document, containing a single TEI header, a single text, one or more members of the model.resourceLike class, or a combination of these. A series of TEI elements may be combined together to form a teiCorpus element. [4. Default Text Structure 15.1. Notation of Composite Text]
- Options:**
  - Add optional content
  - Add first Choice particle

At the bottom of the dialog box, there are four buttons: '< Back', 'Customize >', 'Create', and 'Cancel'. The background shows a document editor with an 'Outline' pane on the left and a main text area on the right.

# USING A TEI SCHEMA FOR ANNOTATING CMC DOCUMENTS IN OXYGEN

To use a TEI customization for the annotation of CMC data, derive a schema, e.g. Relax NG, from the ODD file

[TEI\\_CMC\\_CHATCORPUS2CLARIN.rng](#)

then

- Case 1: start a new TEI document from the schema
- Case 2: associate an existing TEI document with the schema

demo

# CASE 2: ASSOCIATE AN EXISTING TEI DOCUMENT WITH SCHEMA

The screenshot shows a text editor window with an XML document. The document content is as follows:

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <TEI xmlns="http://www.tei-c.org/ns/1.0">
3   <teiHeader>
4     <fileDesc>
5       <titleStm>
6         <title>
7           <idno>TEI-CMC version of Wikipedia discussions associated with the article
8             "Psychoanalyse"</idno>

```

An "Associate Schema" dialog box is open, with the following fields:

- URL: `CHATCORPUS2CLARIN/out/tei_CMC_CHATCORPUS2CLARIN.rng`
- Use path relative to file location
- Schema type: RelaxNG XML syntax
- Add additional association for embedded schematron rules
- Public ID: (empty)

The dialog box has "OK" and "Cancel" buttons.

Below the dialog box, the XML document continues with:

```

27 </title>
28 <principal>
29   <persName xml:id="CP">
30     <name>Céline</name>
31     <surname>Poudat</surname>
32     <email>celine@poudat.fr</email>
33     <orgName>Université de Nice Sophia Antipolis</orgName>
34   </persName>
35   <persName xml:id="NG">
36     <name>Natalia</name>
37     <surname>Grabar</surname>
38     <email>natalia.grabar@univ-lille3.fr</email>
39     <orgName>UMR 8163 STL (Savoirs Textes Langage), CNRS, Université Lille 1
40     </orgName>
41   </persName>

```

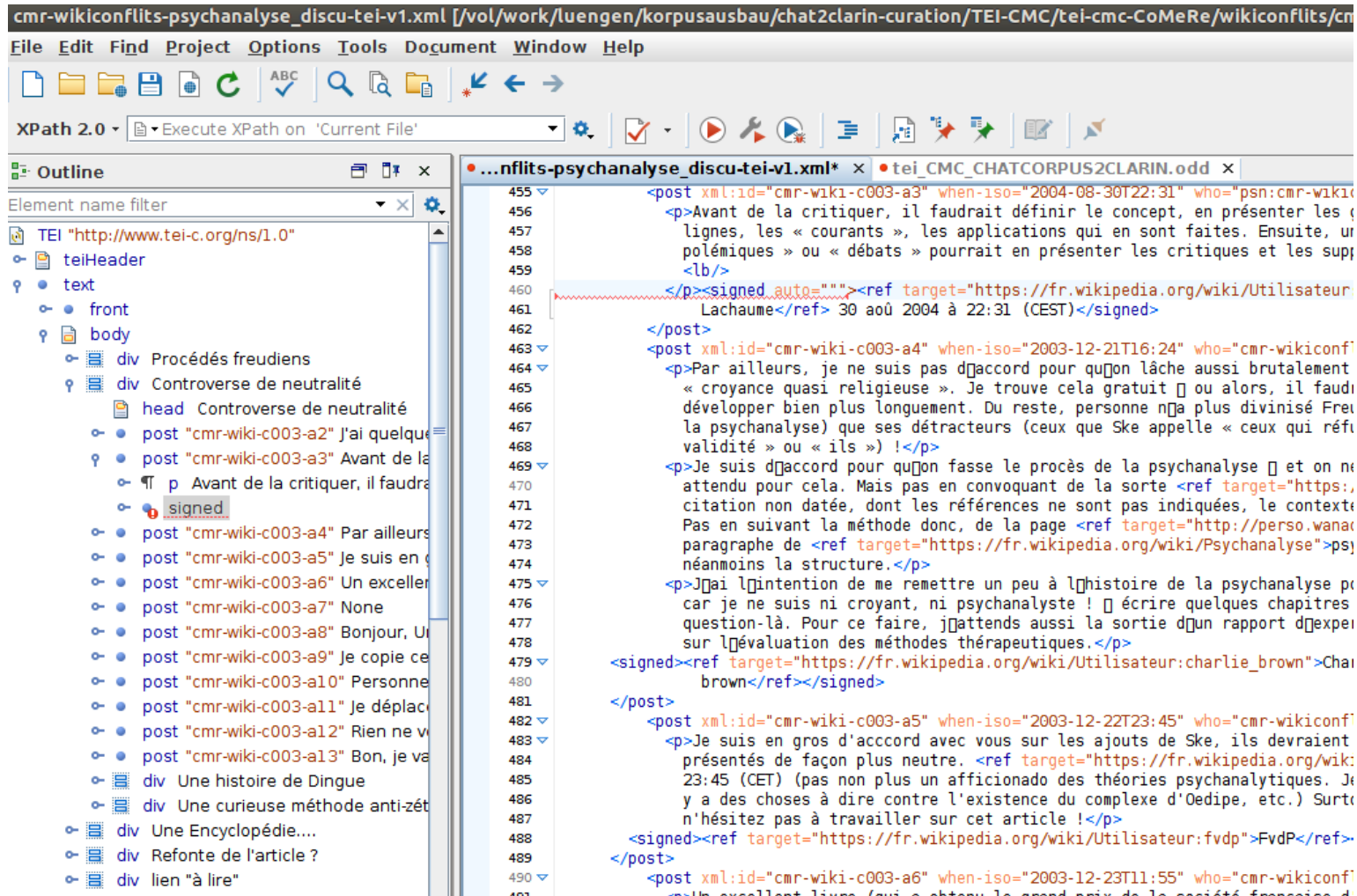
On the right side of the editor, there is a preview of the rendered HTML content:

amp; Paloque-Berges, C. (2015). TEI the article "Psychoanalyse". In Corpu hone" (cmr-wikiconflits), CoMeRe corp lits-psychoanalyse\_discu-tei-v1 ; cmr-wikiconflits/cmr-wikiconflits-psy

tient les discussions associées à l'a its-psychoanalyse\_pl-tei-v1</idno>), d C. Ces discussions ont été réorganisé lus toutes ses archives. Ceci constit nflits "Conflits dans le Wikipédia fr </title>.</desc>

ains discussions associated with the ' ikiconflits-psychoanalyse\_pl-tei-v1</i CMC format. Discussions have been reo chives of discussion pages. It repres Conflits dans le Wikipédia francophon </title>.</desc>

# CASE 2: ASSOCIATE AN EXISTING TEI DOCUMENT WITH SCHEMA



The screenshot shows a TEI editor interface with the following components:

- File Path:** cmr-wikiconflits-psychanalyse\_discu-tei-v1.xml [vol/work/luengen/korpusausbau/chat2clarin-curation/TEI-CMC/tei-cmc-CoMeRe/wikiconflits/cm
- Menu:** File Edit Find Project Options Tools Document Window Help
- Toolbar:** Includes icons for file operations, search, and execution.
- XPath 2.0:** Execute XPath on 'Current File'
- Outline (Left Pane):**
  - TEI "http://www.tei-c.org/ns/1.0"
  - teiHeader
  - text
    - front
    - body
      - div Procédés freudiens
      - div Controverse de neutralité
        - head Controverse de neutralité
        - post "cmr-wiki-c003-a2" J'ai quelque
        - post "cmr-wiki-c003-a3" Avant de la
          - p Avant de la critiquer, il faudr
          - signed
        - post "cmr-wiki-c003-a4" Par ailleurs
        - post "cmr-wiki-c003-a5" Je suis en c
        - post "cmr-wiki-c003-a6" Un excellen
        - post "cmr-wiki-c003-a7" None
        - post "cmr-wiki-c003-a8" Bonjour, U
        - post "cmr-wiki-c003-a9" Je copie ce
        - post "cmr-wiki-c003-a10" Personne
        - post "cmr-wiki-c003-a11" Je déplac
        - post "cmr-wiki-c003-a12" Rien ne v
        - post "cmr-wiki-c003-a13" Bon, je va
        - div Une histoire de Dingue
        - div Une curieuse méthode anti-zét
        - div Une Encyclopédie....
        - div Refonte de l'article ?
        - div lien "à lire"

- XML Editor (Right Pane):**
- Line 455: `<post xml:id="cmr-wiki-c003-a3" when-iso="2004-08-30T22:31" who="psn:cmr-wiki-`
- Line 456: `<p>Avant de la critiquer, il faudrait définir le concept, en présenter les`
- Line 457: `lignes, les « courants », les applications qui en sont faites. Ensuite, un`
- Line 458: `polémiques » ou « débats » pourrait en présenter les critiques et les sup`
- Line 459: `<lb/>`
- Line 460: `</p><signed auto=""><ref target="https://fr.wikipedia.org/wiki/Utilisateur:`
- Line 461: `Lachaume</ref> 30 août 2004 à 22:31 (CEST)</signed>`
- Line 462: `</post>`
- Line 463: `<post xml:id="cmr-wiki-c003-a4" when-iso="2003-12-21T16:24" who="cmr-wikiconfi`
- Line 464: `<p>Par ailleurs, je ne suis pas d'accord pour qu'on lâche aussi brutalement`
- Line 465: `« croyance quasi religieuse ». Je trouve cela gratuit ou alors, il faudr`
- Line 466: `développer bien plus longuement. Du reste, personne n'a plus divisé Freu`
- Line 467: `la psychanalyse) que ses détracteurs (ceux que Ske appelle « ceux qui réfi`
- Line 468: `validité » ou « ils ») !</p>`
- Line 469: `<p>Je suis d'accord pour qu'on fasse le procès de la psychanalyse et on ne`
- Line 470: `attendu pour cela. Mais pas en convoquant de la sorte <ref target="https:`
- Line 471: `citation non datée, dont les références ne sont pas indiquées, le context`
- Line 472: `Pas en suivant la méthode donc, de la page <ref target="http://perso.wana`
- Line 473: `paragraphe de <ref target="https://fr.wikipedia.org/wiki/Psychanalyse">ps`
- Line 474: `néanmoins la structure.</p>`
- Line 475: `<p>J'ai l'intention de me remettre un peu à l'histoire de la psychanalyse p`
- Line 476: `car je ne suis ni croyant, ni psychanalyste ! écrire quelques chapitres`
- Line 477: `question-là. Pour ce faire, j'attends aussi la sortie d'un rapport d'exp`
- Line 478: `sur l'évaluation des méthodes thérapeutiques.</p>`
- Line 479: `<signed><ref target="https://fr.wikipedia.org/wiki/Utilisateur:charlie_brown">Char`
- Line 480: `brown</ref></signed>`
- Line 481: `</post>`
- Line 482: `<post xml:id="cmr-wiki-c003-a5" when-iso="2003-12-22T23:45" who="cmr-wikiconfi`
- Line 483: `<p>Je suis en gros d'accord avec vous sur les ajouts de Ske, ils devraient`
- Line 484: `présentés de façon plus neutre. <ref target="https://fr.wikipedia.org/wiki:`
- Line 485: `23:45 (CET) (pas non plus un aficionado des théories psychanalytiques. Je`
- Line 486: `y a des choses à dire contre l'existence du complexe d'Oedipe, etc.) Surt`
- Line 487: `n'hésitez pas à travailler sur cet article !</p>`
- Line 488: `<signed><ref target="https://fr.wikipedia.org/wiki/Utilisateur:fvdP">FvdP</ref>`
- Line 489: `</post>`
- Line 490: `<post xml:id="cmr-wiki-c003-a6" when-iso="2003-12-23T11:55" who="cmr-wikiconfi`
- Line 491: `Un excellent livre (qui a obtenu le grand prix de la société française d`

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