



CMC-core: A basic schema for encoding corpora of computer-mediated communication in TEI

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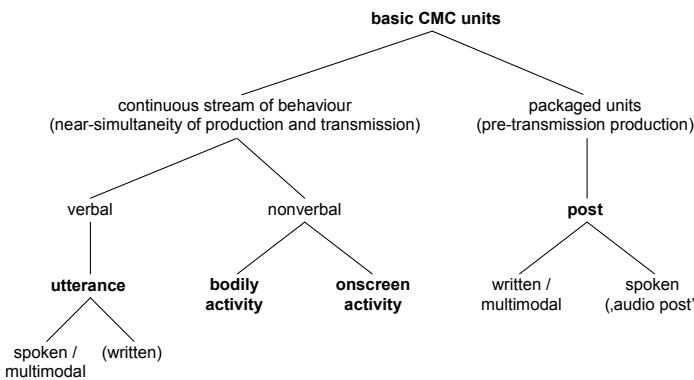
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Motivation

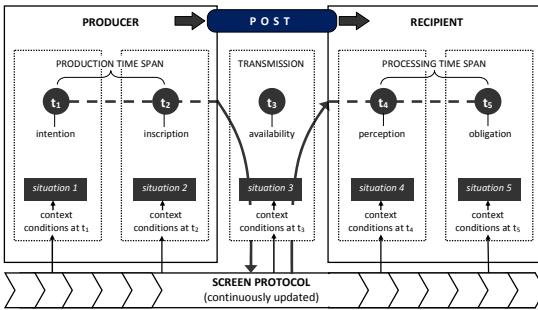
- A standard for the TEI representation of CMC corpora is needed for three purposes:
- o as a prerequisite for the exchange, interconnection, and combined analysis of CMC corpora of different origins, different languages, and different genres – i.e. for the interoperability and sustainability of CMC corpora,
 - o to facilitate the merging and combined analysis of CMC corpora with corpora of other types, namely text corpora and spoken language corpora,
 - o for the integration and exploitation of CMC corpora in existing language resource infrastructures and with established tools.

Basic units of CMC discourse



CMC unit	type of data	TEI-P5 model
utterance (spoken / multimodal)	transcription of speech	⇒ <u> (utterance)
bodily activity	textual description	⇒ <kinesic>
onscreen activity	transcription or textual description	⇒ <incident>
post	a stretch of text submitted to the server at once (function: perform next move in a sequential interaction)	?

Temporal (and resulting pragmatic)
peculiarities of post-based CMC
(instantiation: chat)



Encoding examples

```
<div type="thread">
<head>Naturally occurring?</head>
<post mode="signed" xml:id="#p1" indent.level="0" who="#u005" sync="#u005">
    <p>I'm not sure that this is a proper criterion, or even what this means. What if we set an explosion that breaks it come into two pieces? What if we build a moor? Cheers, <signed creation="template"><ref target="#wiki/User:Greennod">Greennod</ref><ref target="#wiki/User_talk:Greennod">talk</ref><time>2011-01-00, 21 July 2011 (UTC)</time></signed>
</p>
<post mode="written" xml:id="p5" indent.level="1" replyTo="#p4" who="#u006" sync="#u006">
    <p>Those haven't happened. If they do, we can revisit the concern. <signed creation="template"><ref target="#wiki/User:Praemonitus">Praemonitus</ref><ref target="#wiki/User_talk:Praemonitus">talk</ref><time>2015-01-15, 1 April 2015 (UTC)</time></signed>
</p>
</post>
</div>
```

Listing 1: Discussion thread on a Wikipedia talk page

```
<post mode="spoken" creation="human" sync="#t003" who="#A05" xml:id="m7"> Sagt Anne auch gerade, JA! Kann ich zustimmen. </post>
<post mode="written" creation="human" sync="#t003" who="#A02" creation="template">
    <p>Da kostet ein Haarschnitt 50 € <figure type="emoji" >face screaming in fear</figure>
        <desc type="meaning">face screaming in fear</desc>
        <desc type="unicode">U+1F631</desc>
    </figure>
</post>
```

Listing 2: Written and spoken post in WhatsApp chat interaction, from MoCoDa2 (2018)

```
<post xml:id="p5" type="comment" who="#u4" sync="#u005" replyTo="#p4">
    <p>Wenn Sie diesen Gruppen also "mangelnde Bildung" attestieren wollen, so verwenden Sie bereits einen bestimmten, kulturgebundenen Bildungsbe Griff. </p>
    <p>Ich hoffe doch, wir können beim Bildungsbegriff der Aufklärung bleiben. Wer das nicht möchte, hat die Wissenschaft verlassen. </p>
</post>
```

Listing 3: Blog comment replying to a previous comment, from the Scilogs corpus (Grumt Suárez et al. 2016).

```
<text>
<body>
<u xml:id="cmr-archi21-slref-es-j3-1-a191" who="#ingrabu" start="#cmr-archi21-slref-es-j3-1-ts373" end="#cmr-archi21-slref-es-j3-1-ts370"> hm for me this presentation was hm <pause dur="PT1S" /> became too fast because it's always the same in our architecture school euh we have no time and hm <pause dur="PT1S" /> too quickly sorry [...]
</u>
<kinesic xml:id="cmr-archi21-slref-es-j3-1-a192" who="#romeozer" start="#cmr-archi21-slref-es-j3-1-ts376" end="#cmr-archi21-slref-es-j3-1-ts377" type="body" subtype="kinesics">
    <desc>
        <code>eat(popcorn)</code>
    </desc>
</kinesic> [...]
<post mode="written" creation="human" xml:id="cmr-archi21-slref-es-j3-1-a195" who="#tfre2" start="#cmr-archi21-slref-es-j3-1-ts380" end="#cmr-archi21-slref-es-j3-1-ts381" type="chat-message">
    <p>it went too quickly?</p>
</post> [...]
```

Listing 4: Second Life *multimodal* chat example, adapted to CMC-core, from Chanier & Wigham (2015).