

2.2 Layers of information

WhatsApp messages are built up in a hierarchy: a chat contains messages that contain tokens that contain characters. A corpus of WhatsApp chats should allow for all these layers to be queried. Additionally, there is meta-data about the chats (e.g. number of messages) and about the messages (e.g. the timestamp when it was written) and about the informant (e.g. his/her age) and about the tokens (e.g. part of speech). This makes our corpus a rather challenging and complex endeavor.

These layers can nicely be seen when browsing results from a query:

7 0 ← Path: WUS_ITA_TT > **chat138** (msg 20 - 22)

left context: 1 right context: 1

spk	spk365	spk366	spk365
tok	Anke	adesso	se
vuoi			
Aeh			
ho	solo	10	percento
di	batteria	xo	Ah
ecco			
token attributes			
tok	Anke	adesso	se
gloss	anche	adesso	se
tt_pos	ADV	ADV	PRO:refl
tt_lem	anche	adesso	se
vuoi			
Aeh			
ho	solo	10	percento
di	batteria	xo	Ah
ecco			
message attributes			
tok	Anke	adesso	se
msg	Anke	adesso	se
msg_id	vuoi	Aeh	ho
msg_type	165379	adesso	solo
most_likely_lang	content	10	percento
msg_tokens	it	di	batteria
spk	165380	xo	Ah
demographics_id	ecco		ecco
gender			
age_range			
mother tongue			
home_postcode			
school_postcode			
timestamp	30 mar 13:31	30 mar 13:32	30 mar 13:32
chat (context)			
chat (complete)			

Chats

In this example, you find the chat back as an ID (chat138) at the top in pink. If you want to see the whole chat, you see two options at the very bottom: chat in context (faster) or the whole chat (can be slow). When you click on the little <i> in the top bar, you can also see meta data about the chat, such as the number of speakers, languages, total messages etc.

Messages

In this pink chat, you see three selected messages in blue:

- Message 165379: Anke adesso se vuoi
- Message 165380: Aeh ho solo 10 percento di batteria xo
- Message 165381: Ah ecco

As you can see, these messages have meta data assigned to them, as well, e.g. the message ID and

the speaker (these pieces of information are always available) as well as information provided by the informant such as age, mother tongue etc.

Tokens

The individual tokens are annotated in green in the above example and they are aligned to the message, to which they belong.

Tokens, too, (can) have meta data that is assigned to them. In the example shown above, you have the following meta data that was created by our team or by our computational linguists:

- Gloss: a normalization, i.e. a "translation" into standard spelling. A good example here is *xo*, which was normalized as <però>.
- tt_pos: A part-of-speech annotation generated with the parser [TreeTagger](#).
- tt_lem: The lemma for each token as it was created by TreeTagger.

The red token *di*, by the way, is the one that we queried for to create this screen shot.

Labels

On all three layers, i.e. for chats, messages and tokens, as well as for all the meta data, you see the labels, e.g. msg_id, gloss, home_postcode etc. These labels are used for queries.

Examples:

- If you want to see the whole message 165380, your query would be *msg_id="165380"*
- If you want to find verbs in the present tense, your query is *tt_pos="VER:pres"*

To see all the labels available in a specific sub-corpus, check the information for the [sub-corpus](#).

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