

GitMA: Retrieve CATMA data via Git and use the Python library for further processing

Our data structure

CATMA uses a GitLab instance as its backend. All project data is saved in Git repositories. The data is provided in the following folder structure for each project:



Further details here: catma.de/documentation/git-access/

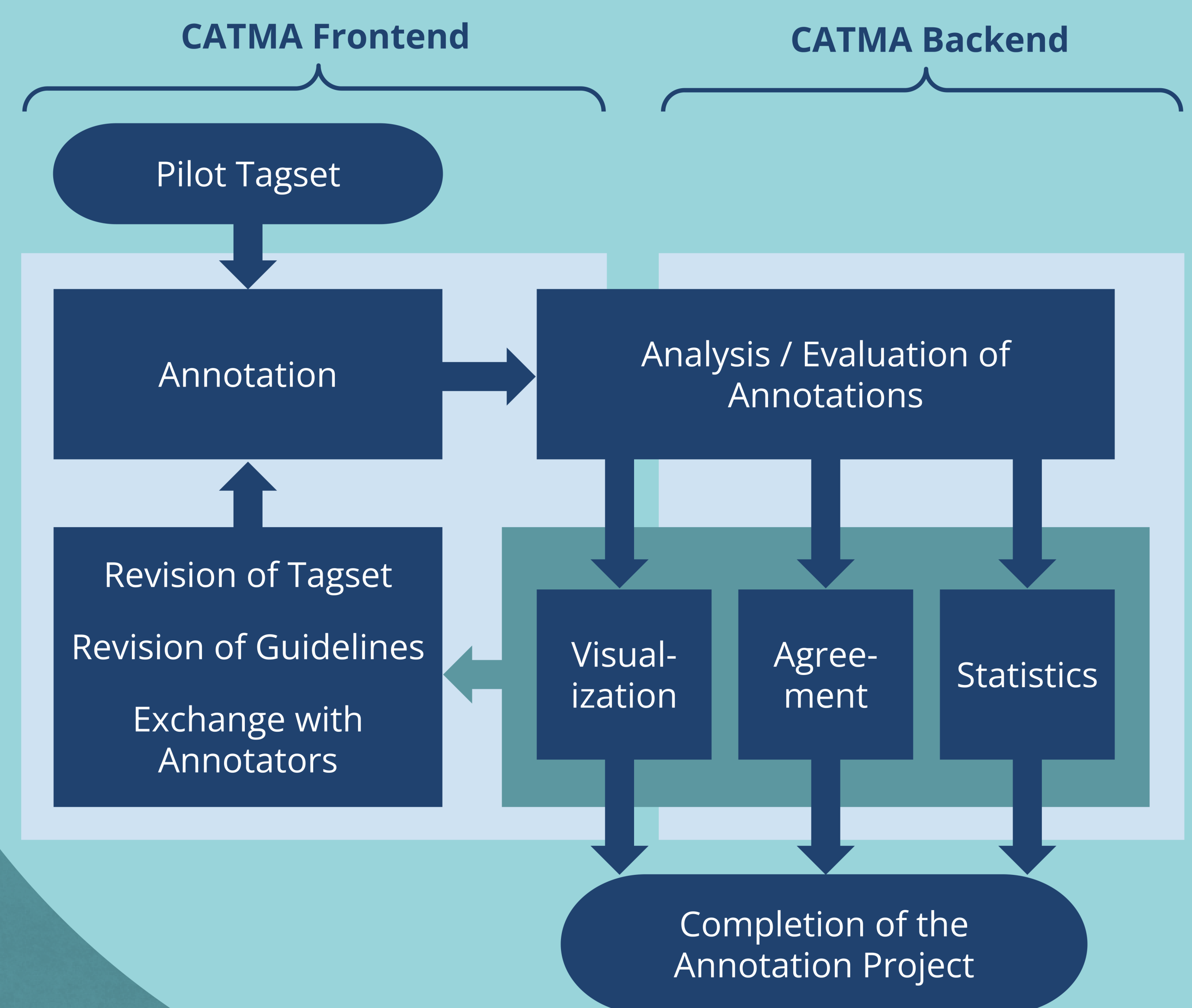
'git clone' of a CATMA project

Prerequisites:

- You already have a CATMA account and access to a project.
- You have the login details for your account, or rather an access token (in case you log in to CATMA using your Google account), at hand.

```
git clone <catma project repository url>
```

Our idea for annotation project management



Our toolkit
github.com/forTEXT/gitma

Installation

```
pip install  
git+https://github.com/forTEXT/gitma
```

or via **docker**

catma.de/documentation/git-access/gitma-docker-image/

Annotation Progress

```
my_project = CatmaProject(  
    project_directory='../test/demo_project/',  
    project_name='EvENT'  
)  
my_project.plot_annotation_progression()
```



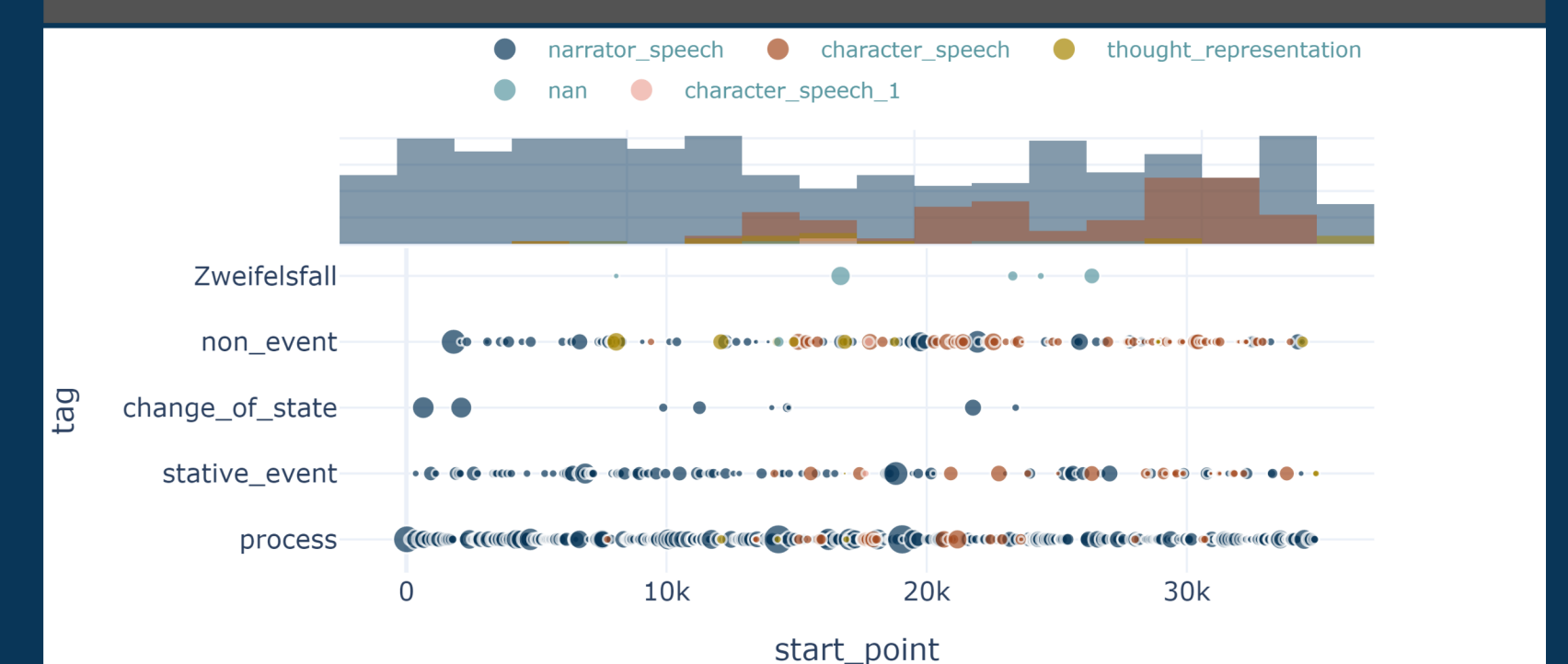
Interactive Project Overview

```
my_project.plot_annotations(color_col='tag')
```



Visualize Individual Annotation Collections

```
my_project.ac_dict['ac1'].plot_annotations()
```



Inter Annotator Agreement

```
project.get_iaa(  
    ac1_name='Effi_Briest_GS',  
    ac2_name='Effi_Briest_MW'  
)
```

Gold Annotation

```
project.create_gold_annotations(  
    ac_1_name='Effi_Briest_MW',  
    ac_2_name='Effi_Briest_GS',  
    gold_ac_name='gold_ac_krambambuli',  
    excluded_tags=['Zweifelsfall'],  
    min_overlap=0.95,  
    push_to_gitlab=True,  
)
```

Annotation Collection pandas DataFrame

```
my_project.ac_dict['Verwandlung_MV'].df
```

	tag	annotation	start_point	end_point	prop:representationtype
0	change_of_state	Als Gregor Samsa ein[...]	24	95	['narrator_speech']
1	change_of_state	fand er sich in sei[...]	96	167	['narrator_speech']
2	process	Er lag auf seinem pa[...]	169	212	['narrator_speech']
3	process	und sah seinen gew[...]	213	328	['narrator_speech']
4	process	wenn er den Kopf ei[...]	222	252	['narrator_speech']
5	stative_event	auf dessen Höhe sich[...]	330	428	['narrator_speech']
6	process	Seine vielen, im Ve[...]	430	543	['narrator_speech']
7	non_event	Was ist mit mir gesc[...]	546	572	['thought_representation']
8	process	dachte er[...]	574	583	['narrator_speech']
9	non_event	Es war kein Traum[...]	585	602	['narrator_speech']
10	stative_event	sein Zimmer, ein ri[...]	604	717	['narrator_speech']
11	stative_event	über dem Tisch hing[...]	719	854	['narrator_speech']
12	stative_event	auf dem eine ausein[...]	735	815	['narrator_speech']
25	non_event	und alle Narrheiten[...]	1393	1420	['thought_representation']
26	process	dachte er[...]	1423	1432	['narrator_speech']
27	stative_event	aber das war gänzli[...]	1434	1470	['narrator_speech']
28	stative_event	denn er war gewöhnt[...]	1472	1526	['narrator_speech']
29	non_event	konnte sich aber in[...]	1528	1604	['narrator_speech']