```
import sys
sys.path.append('../')
from cnt.model import load_ner_model
```

# Named Entity Recognition

## Define the path and name of the model

```
In [2]: model_directory = "../cnt/trained_model/ner/"
    model_name = "english_cno"
```

#### Load the model

```
In [3]: model = load_ner_model(model_directory, model_name)
```

## Define an input sentence

```
In [4]: sentence = "Bare-headed bust of Antoninus Pius, right, wearing cuirass and paludamentum.
```

## There are three different outputs.

- use `predict\_single\_sentence' to receive the position of the predictions
- use predict\_single\_sentence\_clear to receive the string representation instead of the position
- use predict\_single\_sentence\_clear with as\_doc=True to receive a spacy object that can be visualised using displacy

#### Option 1

#### Option 2

#### Option 3

Bare-headed bust object of Antoninus Pius person , right, wearing cuirass object and paludamentum object .

# **Relation Extraction**

```
In [11]: from cnt.model import load_pipeline, predict_re_single_sentence
```

# Define the path and name of the model

#### Load the model

```
In [13]: model = load_pipeline(re_model_directory, re_model_name)
```

#### Define an input sentence

```
In [14]: sentence = "Bare-headed bust of Antoninus Pius, right, wearing cuirass and paludamentum.
```

# Use the predict\_re\_single\_sentence function for predicting on a single sentence