

# cTAKES 4.0 - Coreference

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## Overview of Coreference Annotators

There are two coreference annotators to choose from within cTAKES.

If you aren't sure which one to choose, use

```
CoreferenceAnnotatorFactory.getDefaultCoreferencePipeline()
```

### cTAKES 4.0 Links

[Apache cTAKES download site](#)

Documentation:

- [cTAKES 4.0](#)
- [cTAKES 4.0.0.1](#)
- [cTAKES 4.0 User Install Guide](#)
- [cTAKES 4.0 Developer Install Guide](#)
- [cTAKES 4.0 Component Use Guide](#)
- [cTAKES 4.0 Dictionaries and Models](#)
- [Documentation Conventions](#)

## MentionClusterCoreferenceAnnotator aka Coreference using Clusters

MentionClusterCoreferenceAnnotator is new for 4.0. It uses the `org/apache/ctakes/coreference/models/mention-cluster/model.jar` model in the coreference-res project.

See `CoreferenceAnnotatorFactory.getMentionClusterResolverDescription()`

MentionClusterCoreferenceAnnotator has a convenience method for adding it to UimaFit pipelines. The method takes a model path argument.

Refer to <http://www.sciencedirect.com/science/article/pii/S1532046417300850>

## Legacy Coreference Resolution

There are four annotators that together create coreference annotations.

- MipacqMarkableCreator
- MipacqMarkableExpander
- MipacqMarkablePairGenerator
- MipacqSvmChainCreator

See `CoreferenceAnnotatorFactory.getLegacyCoreferencePipeline()`

Refer to <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3384116/> for discussion of the legacy annotators