

## Train TokenSequence Identifiers

TSIdentifierTrainingWindow:  
«Class»

**Responsibilities:**

- Instantiate probabilistic trainer
- Instantiate crf trainer
- Instantiate probabilistic updater
- Instantiate crf updater
- Start trainers (via generate or update s
- Save solutiions generated by trainers

void saveRaptatSolution(RaptatSolution)

TSIdentifierTrainer:  
«Interface»

TSIDSolution generateSolution(trainingData)

implements

implements

ProbabilisticTSIDTrainer:  
«Class»

CRFTSIDTrainer:  
«Class»

TSIdentifierTrainingUpdater:  
«Interface»

TSIDSolution updateSolution(trainingData, RaptatSolution)

implements

implments

ProbabilisticTSIDUpdater:  
«Class»

CRFTSIDUpdater:  
«Class»

## Use TokenSequence Identifiers & Solutions

RaptatSolution:  
«Class»

**Responsibilities:**

- Hold data strucutures used by Annotator
- Data structures consist of:
  - + TSISolution
  - + HashMap of CueScopeSolution
  - + FacilitatorBlockerSolution
  - + AttributeFilters

getters and setters for each field

TokenSequenceIdentifier:  
«Interface»

List<AnnotatedPhrase> identifySequences(AnnotatedPhrase);  
List<AnnotatedPhrase> identifySequences(List<AnnotatedPhrase>);

implements

implements

CRFTSIdentifier:  
«Class»

ProbabilisticTSIdentifier:  
«Class»

## Train and Use CueScope Annotators & Solutions

CueScopeAnnotatorTrainingWindow:  
«Class»

**Responsibilities:**

- Instantiate probabilistic trainer
- Instantiate crf trainer
- Instantiate probabilistic updater
- Instantiate crf updater
- Start trainers (via generate or update s
- Save solutiions generated by trainers

void saveRaptatSolution(RaptatSolution)

CSAnnotatorTrainer:  
«Class»

CSAnnotatorSolution generateSolution(trainingData)

CSAnnotatorTrainingUpdater:  
«Interface»

CSAnnotaotrSolution updateSolution(trainingData, CSAnnotato

CSAnnotator:  
«Class»

List<AnnotatedPhrase> assignAttribute(AnnotatedPhrase);  
List<AnnotatedPhrase> assignAttributes(List<AnnotatedPhrase>);