## 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 solutions generated by trainers

void saveRaptatSolution(RaptatSolution)

## TSIdentifierTrainer: «Interface» TSIDSolution generateSolution(trainingData) implements implements ProbabilisticTSIDTrainer: CRFTSIDTrainer: «Class» «Class»

# TSIdentifierTrainingUpdater: «Interface» TSIDSolution updateSolution(trainingData, RaptatSolution) implements implments ProbabilisticTSIDUpdater: **CRFTSIDUpdater**: «Class» «Class»

### Use TokenSequence Identifiers & Solutions

#### RaptatSolution: «Class»

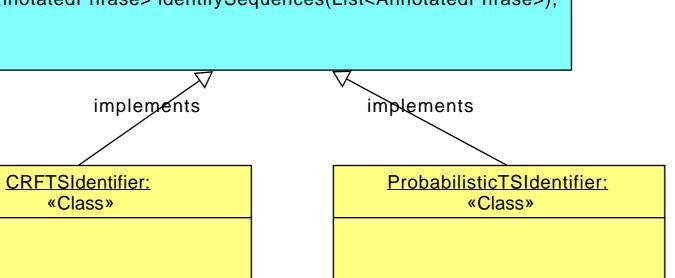
#### Responsibilities:

- 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>);



#### Train and Use **CueScope Annotators** & Solutions

#### <u>CueScopeAnnotatorTrainingWindow:</u> «Class»

#### Responsibilities:

- Instantiate probabilistic trainer
- Instantiate crf trainer
- Instantiate probabilistic updater
- Instantiate crf updater
- Start trainers (via generate or update s
- Save solutions 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>);