

Input Documents

### Data procession

Document  
Ranking

Coreference  
Resolution

Sentence  
Ranking

### Candidate Facts Extraction

Extractors

OLLIE

ClausIE

MinIE

### Topic Coherence Estimation of Candidate Facts

Stage 1

Split candidate  
triples

Chose proper  
training data

Train a random forest  
classifier

Stage 2

Estimate  
unlabeled triples

confidence  
score

Y

Annotate as  
coherent triples

N

Retrain a better random  
forest classifier

Add to coherent  
triple set

Iteration

### Conceptual Graph Construction

Merge Equivalent  
Concepts and Add  
Relations

Node Importance  
Computation

Conceptual Graph  
Generation

Conceptual Graph  
Visualization