Entity Linker

Touring Testers May 2015

Baselines

BASELINE 1

Development Set

F1 strict: **45%**

F1 relaxed: **49%**

Train Set

F1 strict: **40%**

F1 relaxed: **43%**

BASELINE 2

Development Set

F1 strict: **51%**

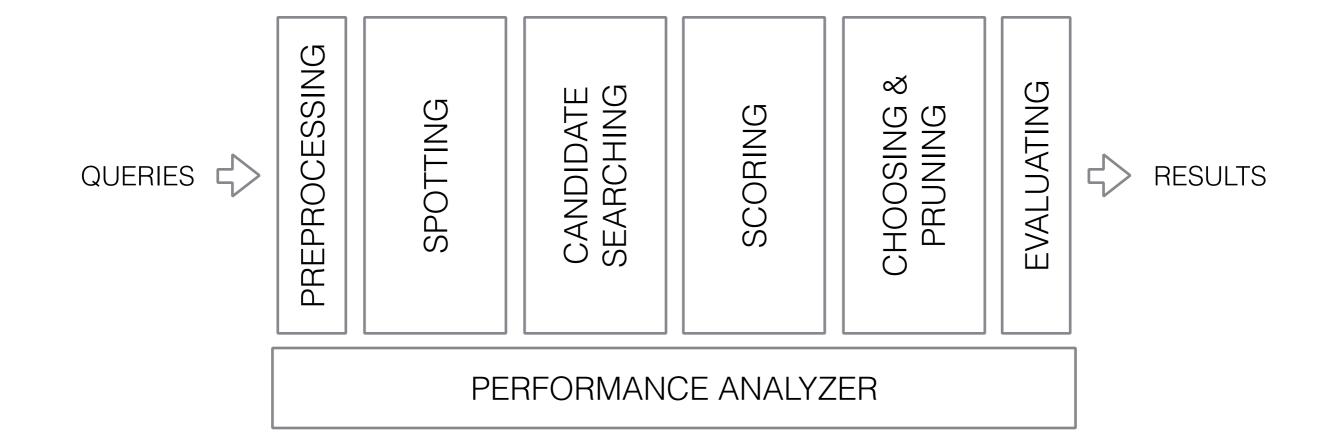
F1 relaxed: **59%**

Train Set

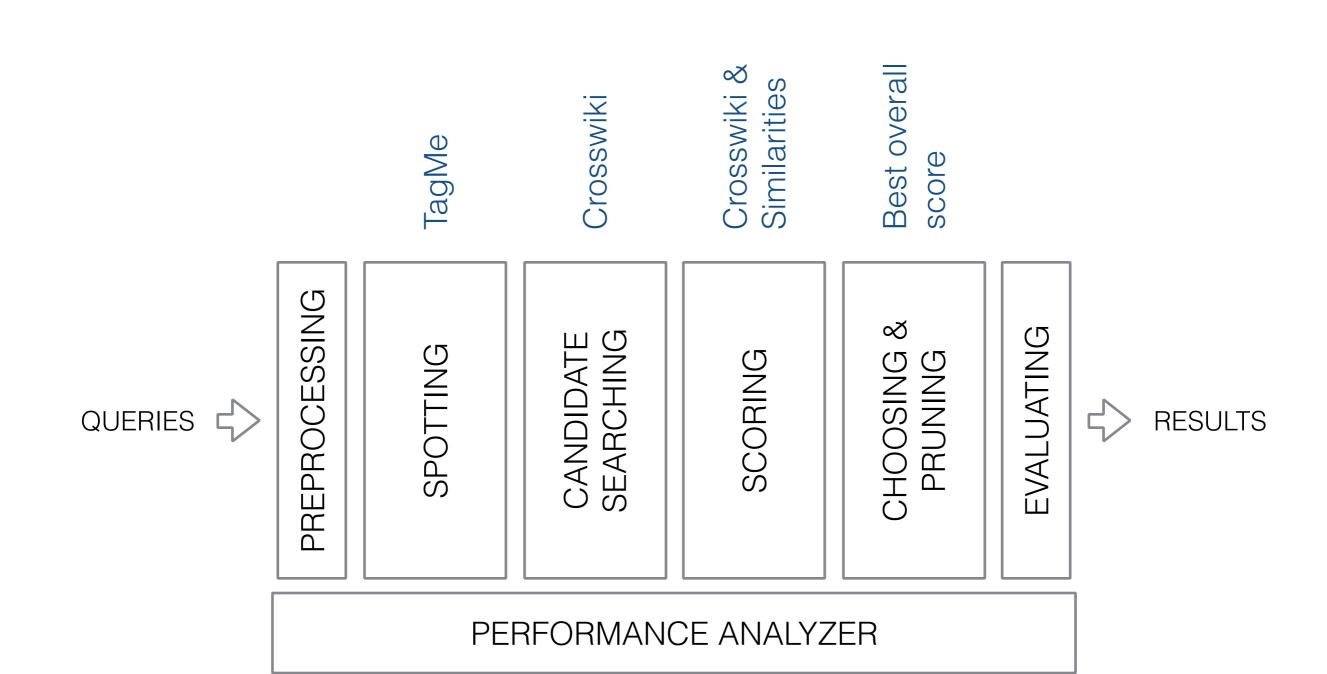
F1 strict: **51%**

F1 relaxed: **59%**

Architecture



Base Implementation



Performance Analyzer

Compare Results with the Gold Standard

- Do we select the correct spots?
- Do we look at the correct candidates?
- Do we choose the correct candidates?

Find bottlenecks

Performance Analyzer

Showed the following:

- Spotting is precise
- Sometimes there are no candidates at all
- "Gold" candidate often not among candidates
- The gold candidate often gets selected, if among candidates

Improvements

- SPOTTING (84% correct mentions)
 - small adjustments (still TagMe based)
- CANDIDATE SEARCHING (91% correct candidates)
 - Crosswiki
 - Wikipedia search & suggestions
 - bing search for english wikipedia articles

includes caching

- · SCORING
 - Parameter adjustments
- CHOOSING (81% correct)
- PRUNING
 - Explored different approaches → not successful

Results

3ASELINE 2

Development Set

F1 strict: **51%**

F1 relaxed: 59%

Train Set

F1 strict: **51%**

F1 relaxed: 59%

Development Set

F1 strict: **58%**

F1 relaxed: **64%**

Train Set

F1 strict: **55%**

F1 relaxed: **59%**