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%**
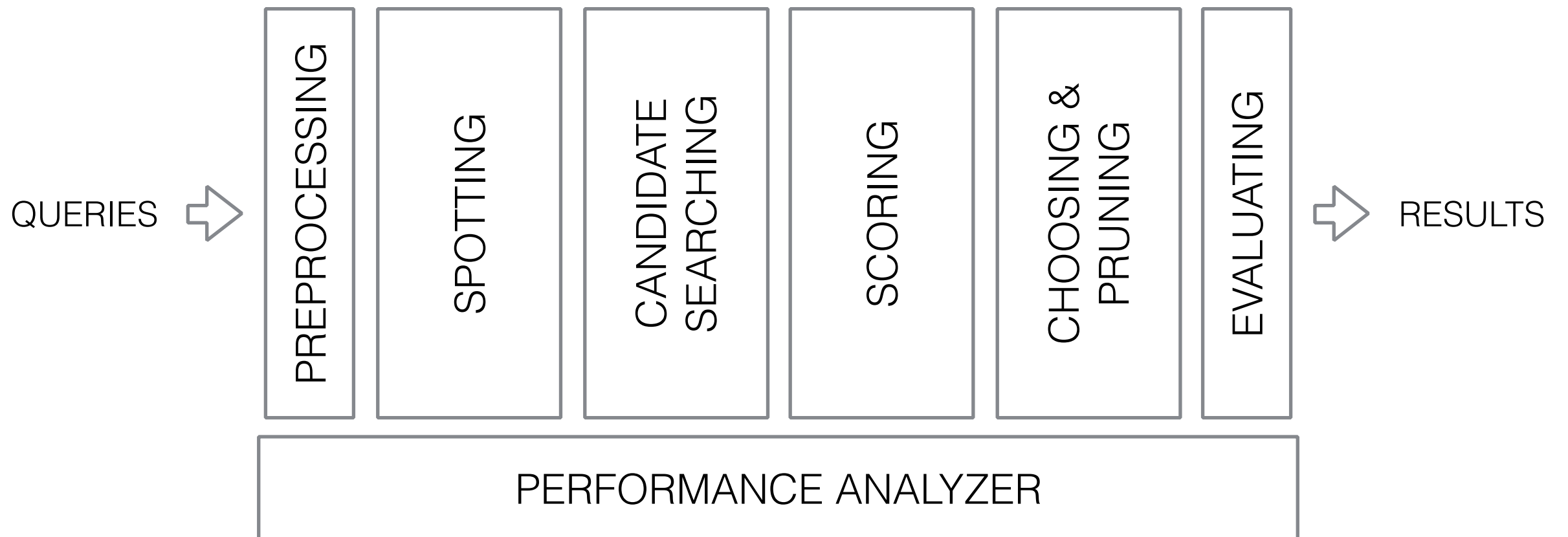
BASELINE 2

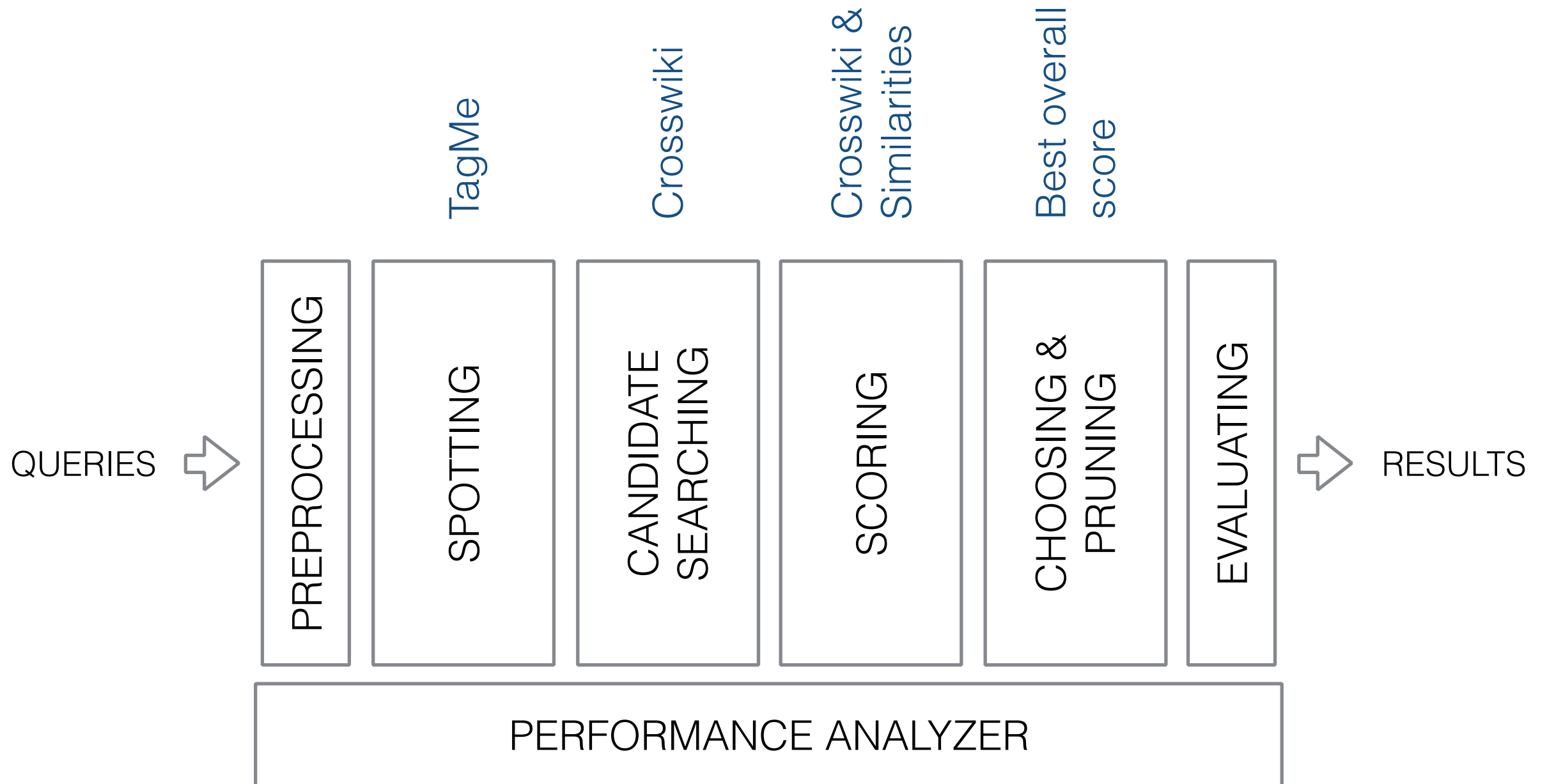**Development Set**

F1 strict: **51%**

F1 relaxed: **59%**

Train Set

F1 strict: **51%**

F1 relaxed: **59%**

Architecture

QUERIES ⇨ | PREPROCESSING | SPOTTING | CANDIDATE SEARCHING | SCORING | CHOOSING & PRUNING | EVALUATING | ⇨ RESULTS

PERFORMANCE ANALYZER

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
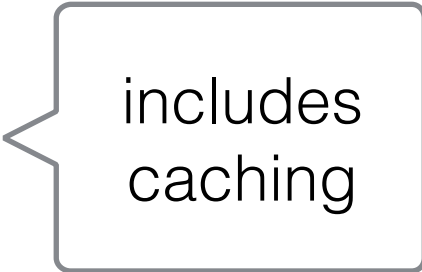
Improvements

- **SPOTTING**
  - small adjustments (still TagMe based)

- **CANDIDATE SEARCHING**
  - Crosswiki
  - Wikipedia search & suggestions
  - bing search for english wikipedia articles

  includes caching

- **SCORING**
  - Parameter adjustments

- **CHOOSING & PRUNING**
  - Explored different approaches ➜ not successful

Results

BASELINE 2

Development Set

F1 strict: **51%**

F1 relaxed: **59%**

Train Set

F1 strict: **51%**

F1 relaxed: **59%**

FINAL

Development Set

F1 strict: **58%**

F1 relaxed: **64%**

Train Set

F1 strict: **55%**

F1 relaxed: **59%**