

# 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%**

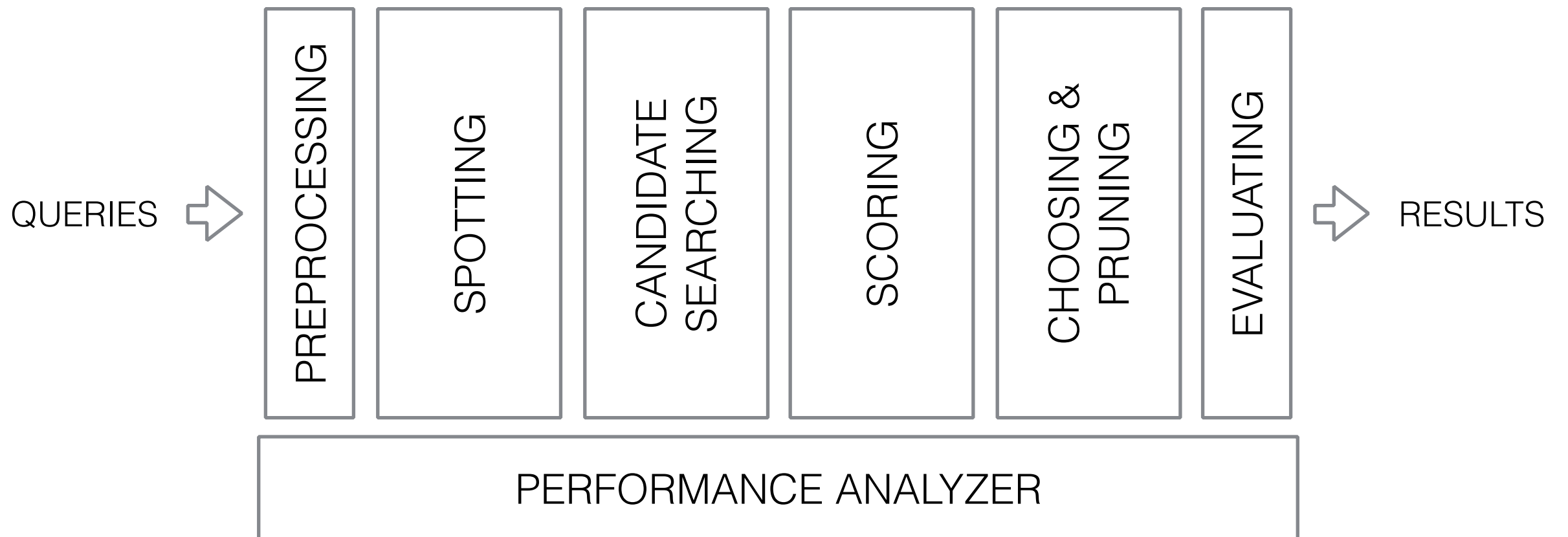
F1 relaxed: **59%**

### Train Set

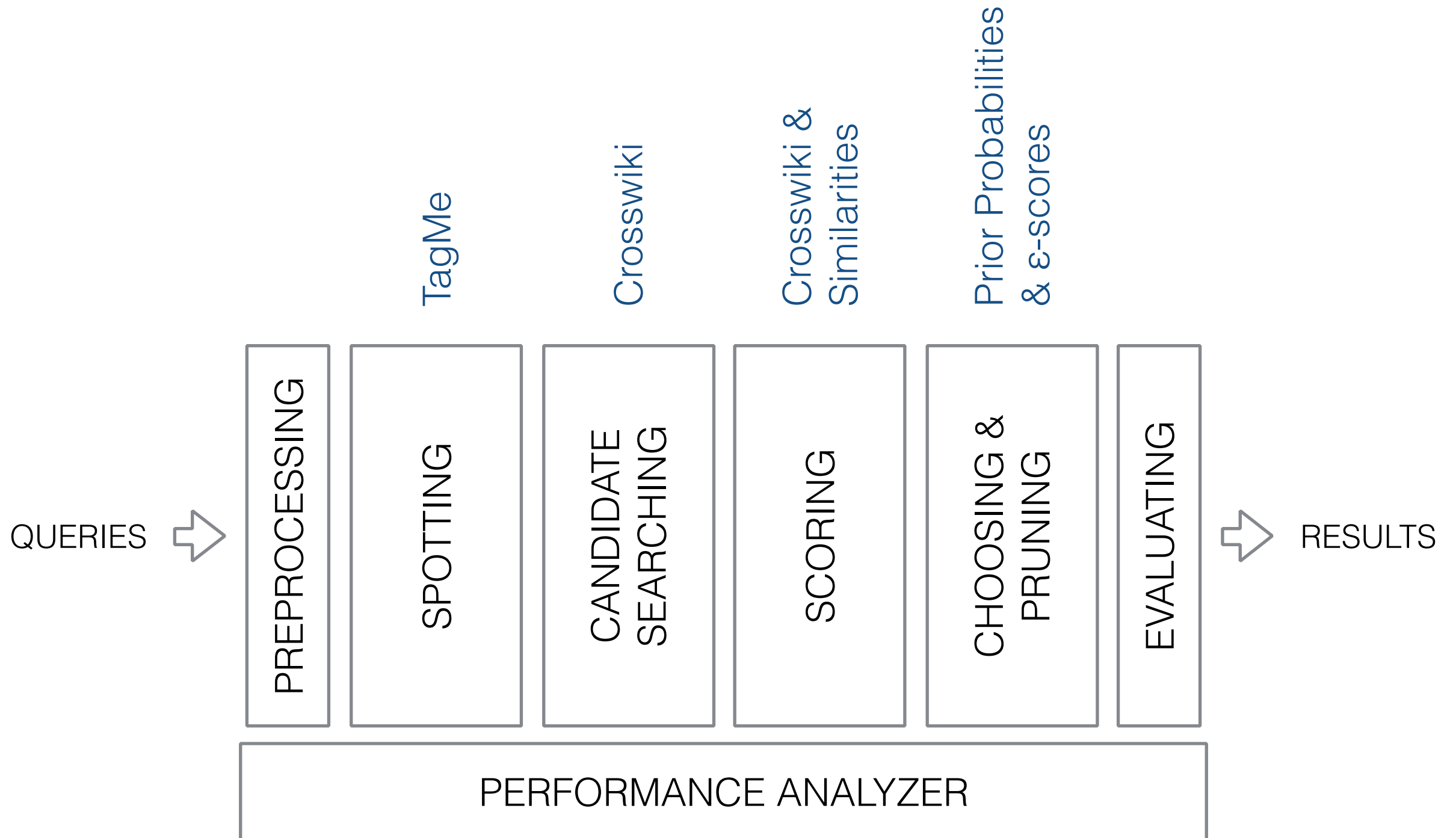
F1 strict: **51%**

F1 relaxed: **59%**

# Architecture



# Base Implementation



# Performance Analyzer

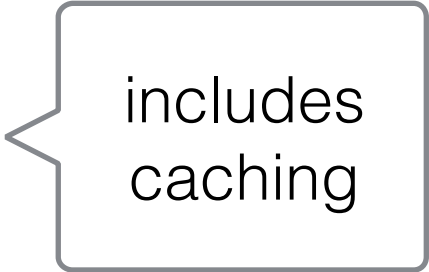
- **Compare Results with the Gold Standard**
  - Do we select the correct spots?
  - Do we look at the correct candidates?
  - Do we choose the correct candidates?
- **Find bottlenecks**

# Performance Analyzer

- **Showed the following:**
  - Spotting is (quite) 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
- **SCORING**
  - Parameter adjustments
- **CHOOSING** (81% correct)
- **PRUNING**
  - Explored different approaches → not successful



includes  
caching

# 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%**