SENTIMENT ANALYSIS

STEAM REVIEWS

NLP PROJECT SPRING 2016

INTRODUCTION

- What is sentiment analysis?
  - Process of computationally identifying opinions expressed in a piece of text and predicting if the attitude of a writer towards a particular topic/product is positive or negative.

INTRODUCTION

- Why Steam Reviews?
  - Large user base
  - Diverse lexicons

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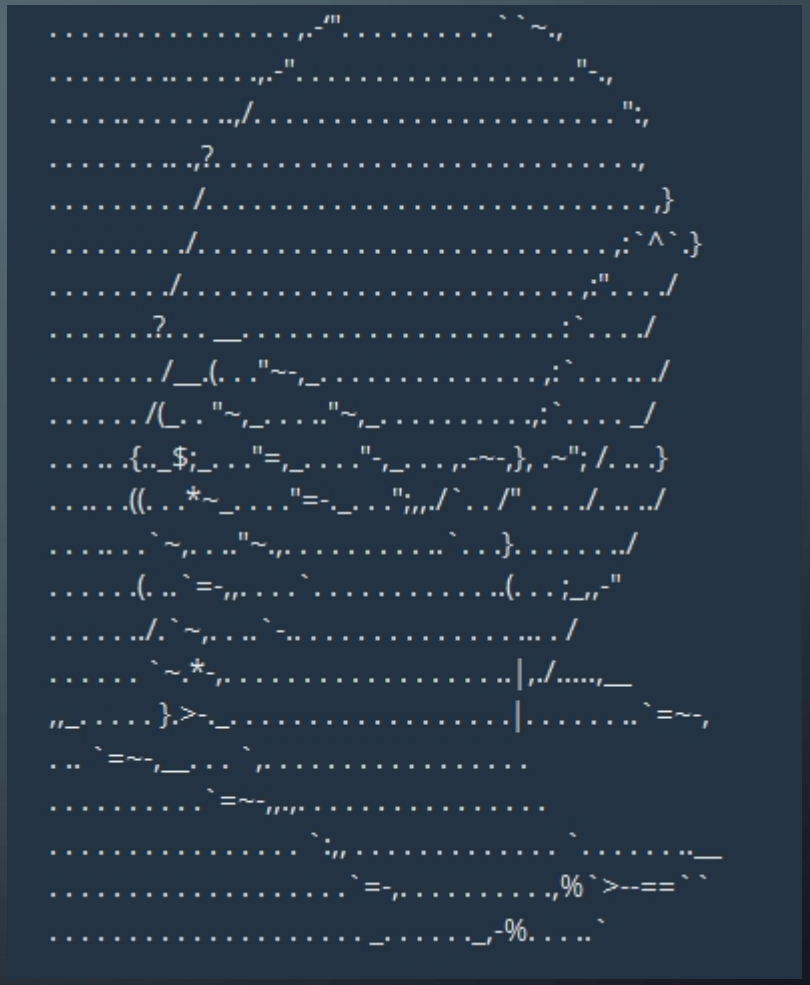
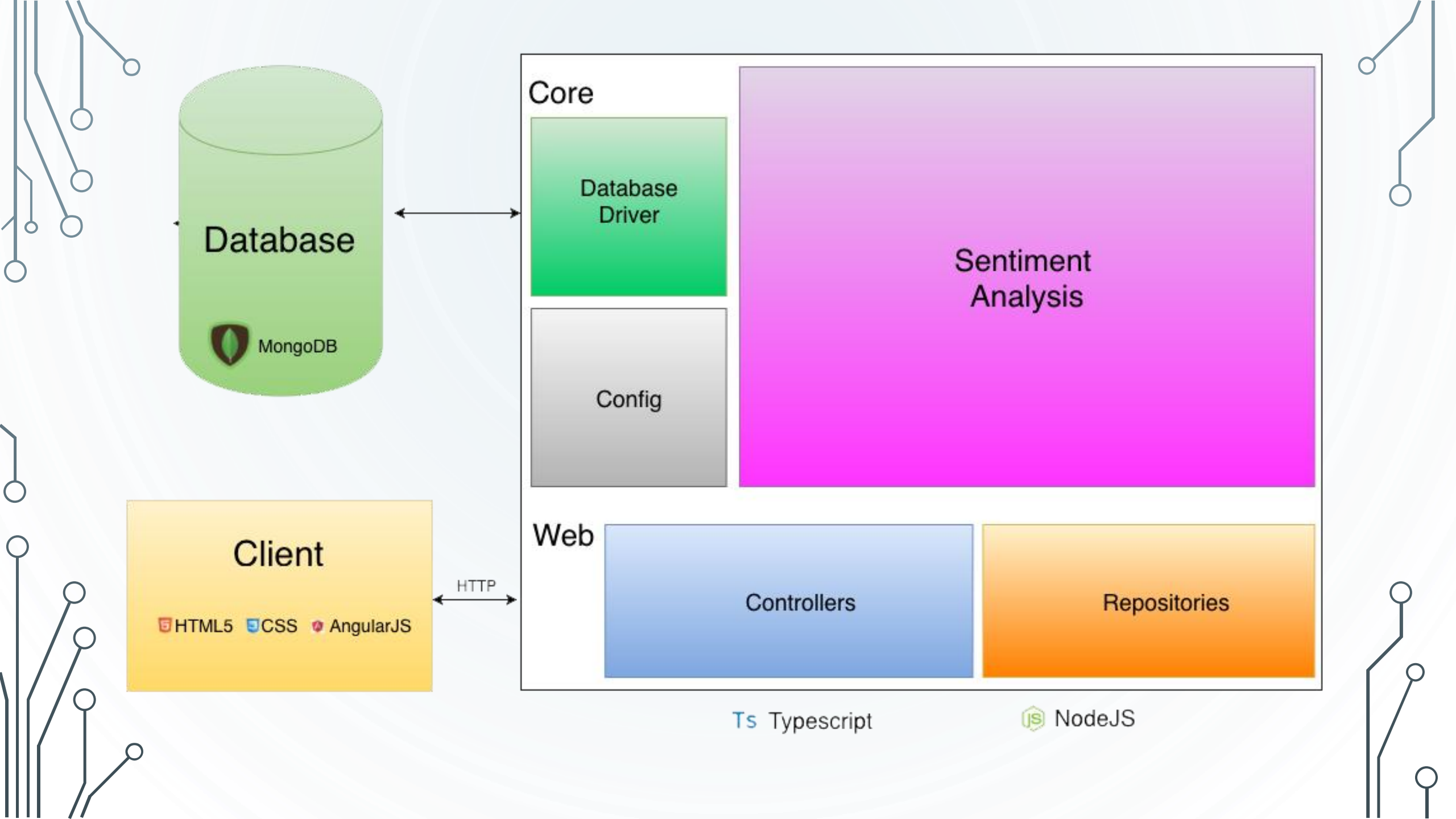


OUR GOAL

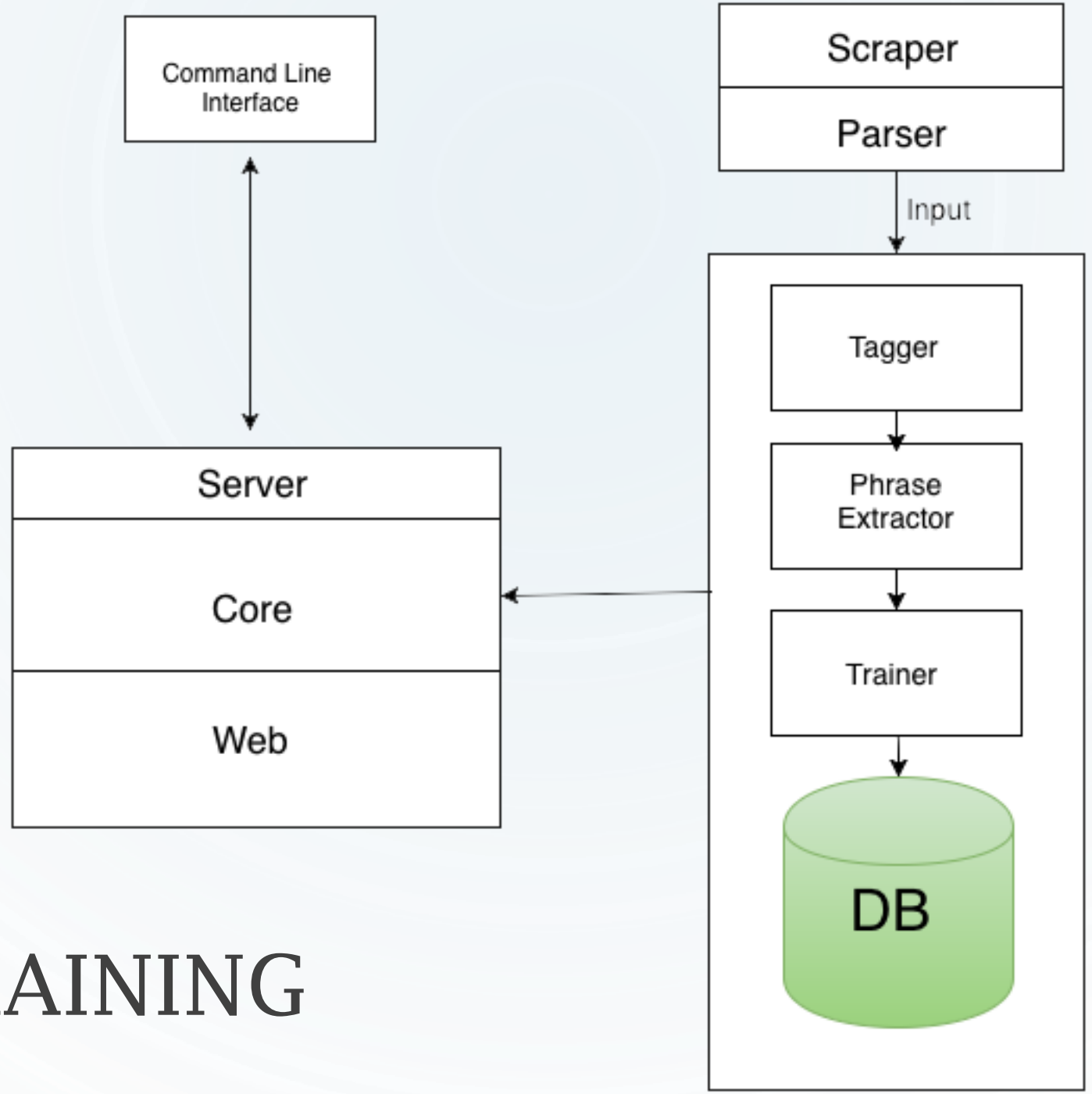
- Analyze a review
  - Extract segments that express sentiments
  - Determine the attitude of those segments
  - Correctly predict the sentiment of a review

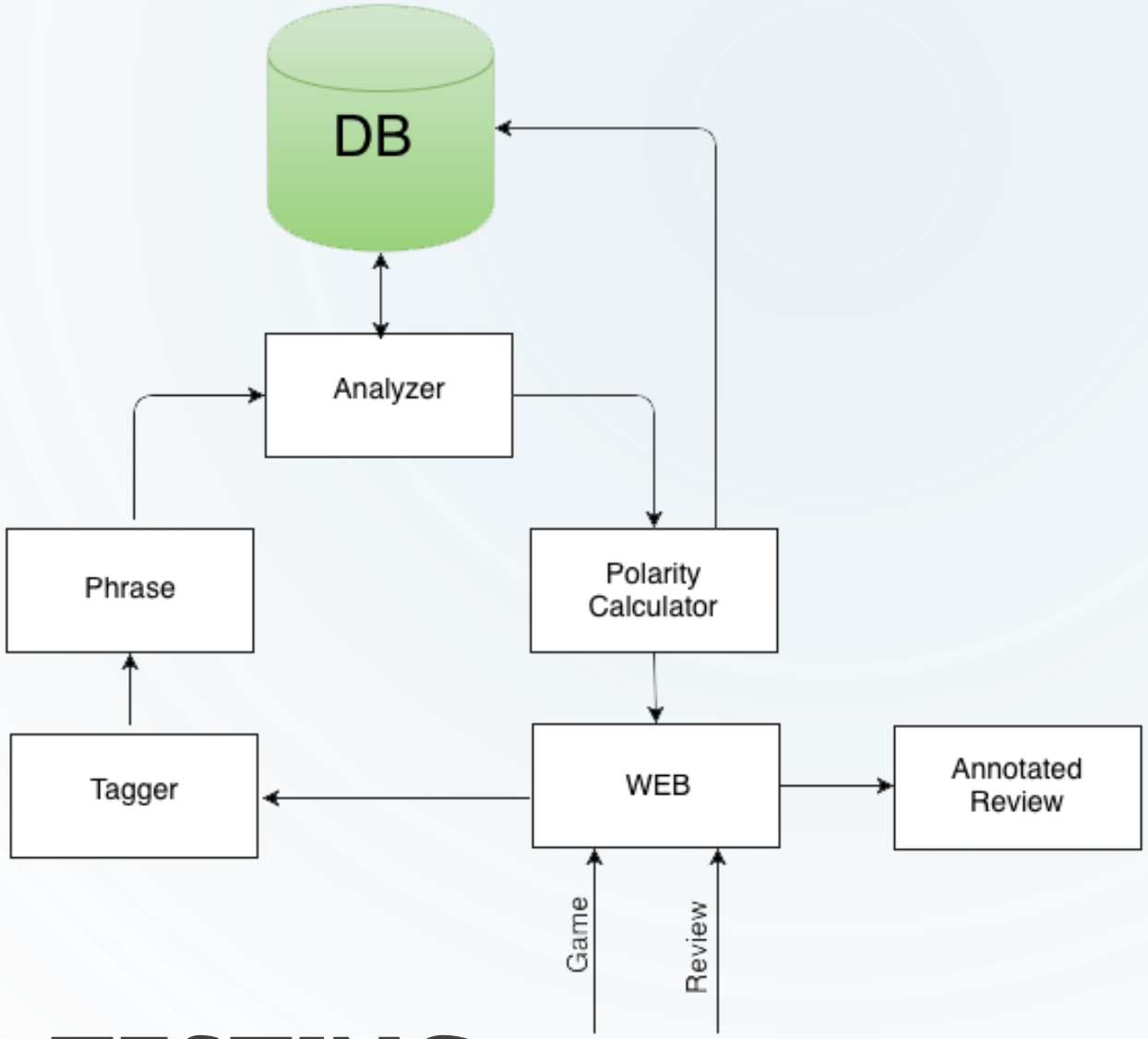
HOW WE DO IT

- Train
- Test
- Evaluate

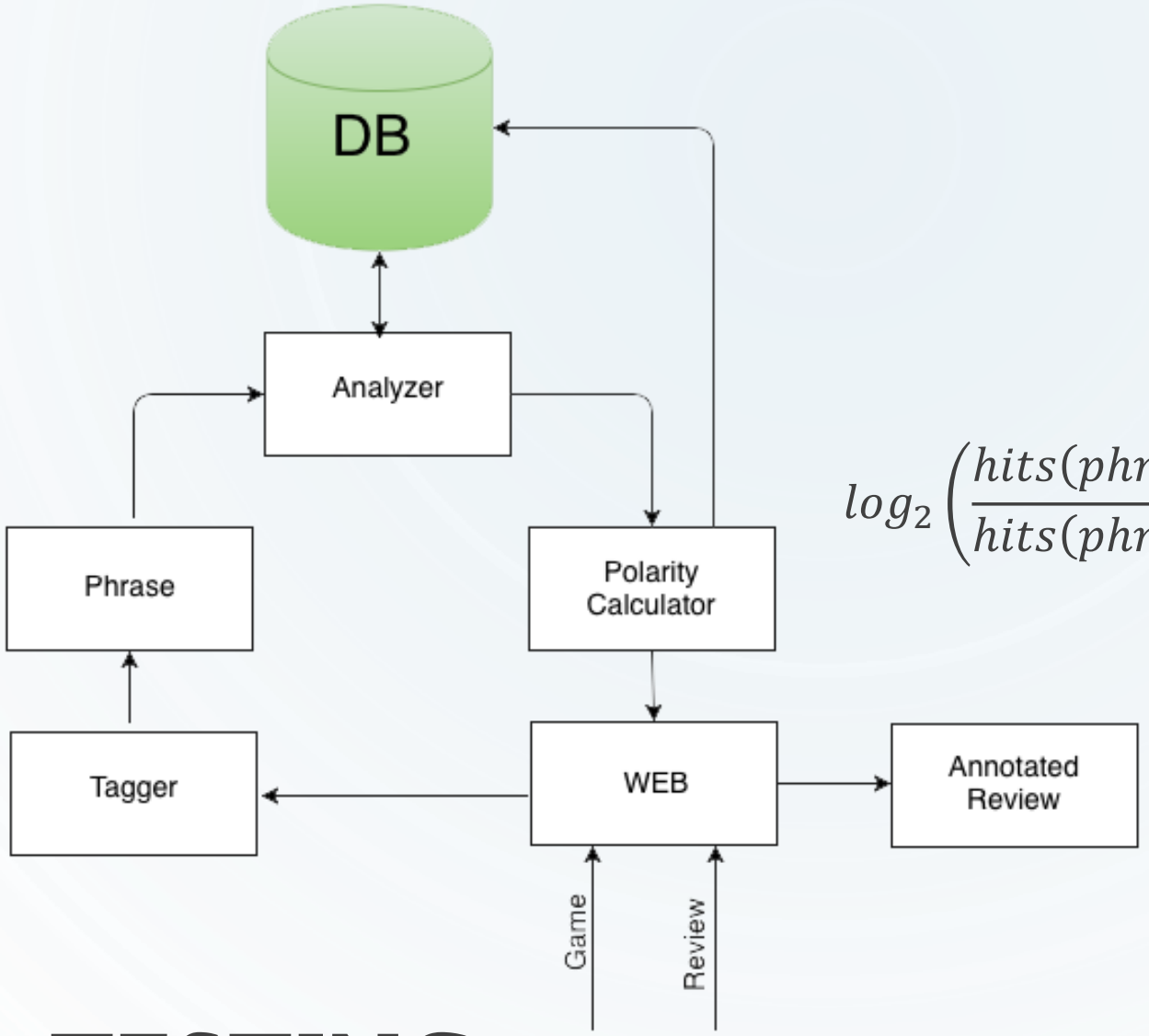

Database
MongoDB
Core
Database Driver
Config
Sentiment Analysis
Client
HTML5
CSS
AngularJS
HTTP
Web
Controllers
Repositories
Ts Typescript
NodeJS

TRAINING


Command Line Interface
Scraper
Parser
Input
Tagger
Phrase Extractor
Trainer
DB
Server
Core
Web


DB
Analyzer
Phrase
Polarity Calculator
Tagger
WEB
Annotated Review
Game
Review

TESTING



$$Polarity(phrase) =$$

$$log_2\left(\frac{hits(phrase\ IN\ positive) * count(negative)}{hits(phrase\ IN\ negative) * count(positive)}\right)$$

TESTING

ENOUGH PRESENTING

MORE DEMOING