

 PredictionIO

Machine Learning is....
computers learning to predict
from data

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www.travelettes.net



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What is PredictionIO ?

- An open source machine learning server
- For software developers to create predictive features in their web and mobile apps
- Handle dynamic queries in real-time
- DASE framework
 - Separation of Concerns
 - Code maintainability, re-usability
 - Developer productivity
- Currently powering thousands of developers and hundred of applications

The Resolve Digital Blog

How a Simple Recommendation Engine Boosts Revenue over 70%



By [Barry Harrison](#)

Posted on August 18, 2014

United Cellars is an award-winning online wine retailer based in Australia. Their site is built on the [Spree Commerce](#) platform and supported by a well-trained telemarketing team. We proposed that a recommendation engine would improve the visitor experience and increase conversions, so we set up an A/B test to find out.

Tags

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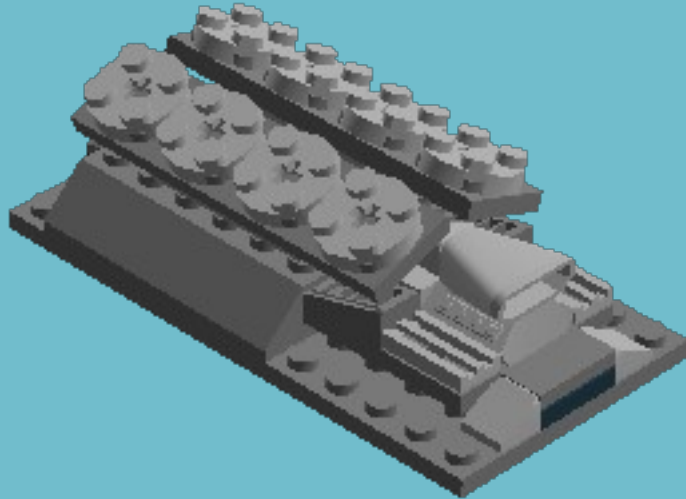
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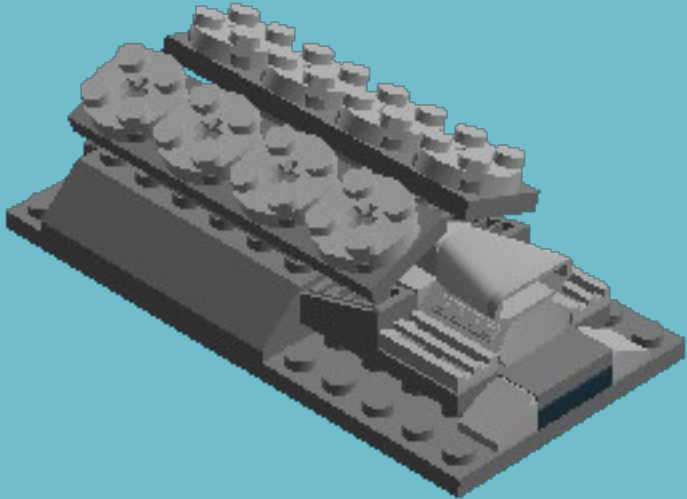
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An Engine Template is the basic skeleton of an engine



Recommendation Engine Template (MLlib ALS)



Classification Engine Template (MLlib Naive Bayes)



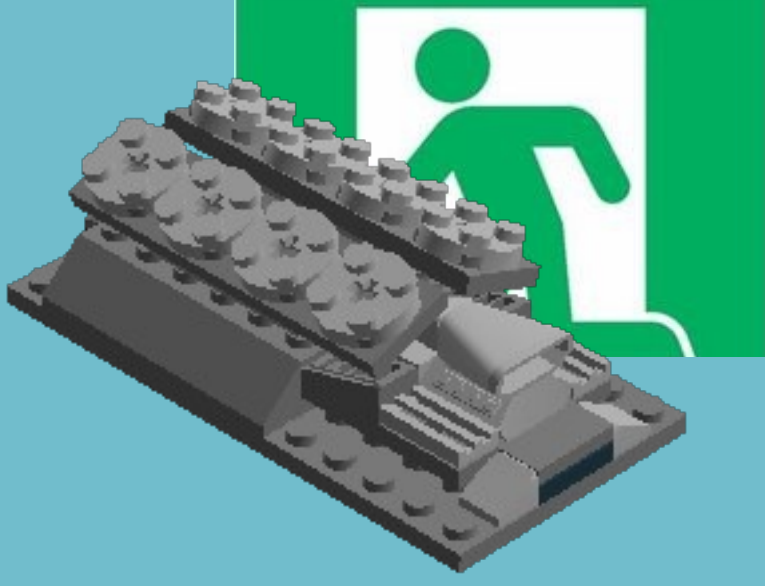
Item Recommendation Engine



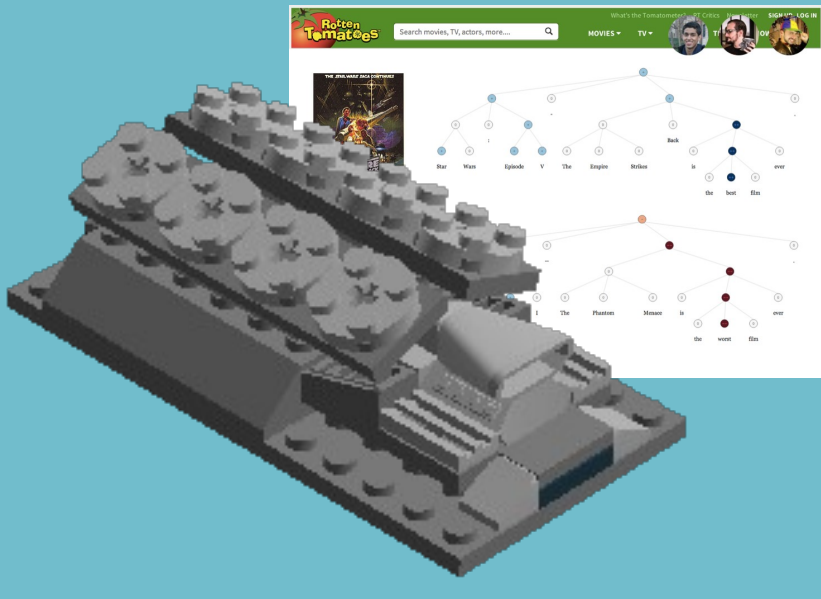
Item Similarity Engine



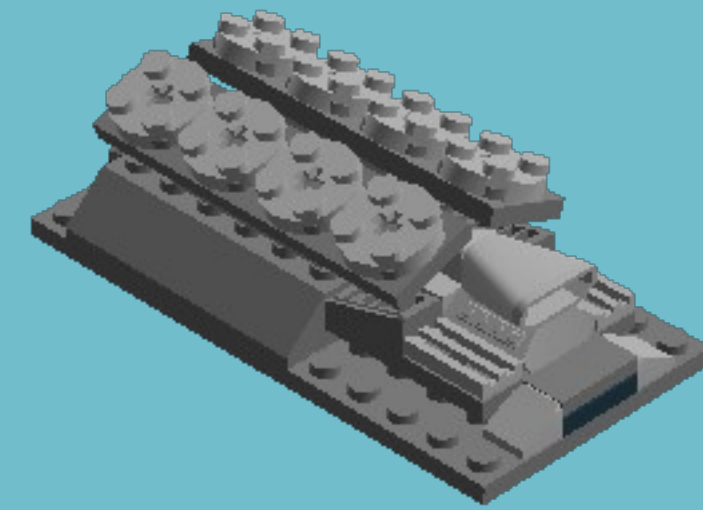
User Recommendation Engine



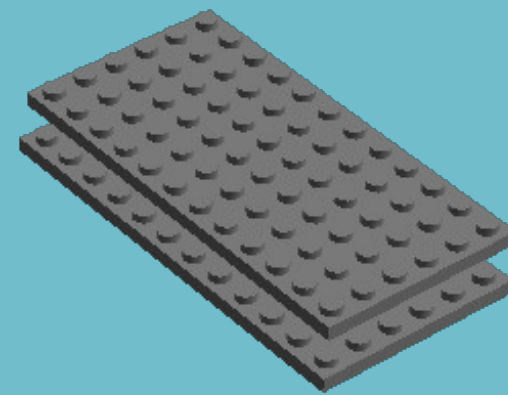
Churn Prediction Engine



Sentiment Analysis Engine



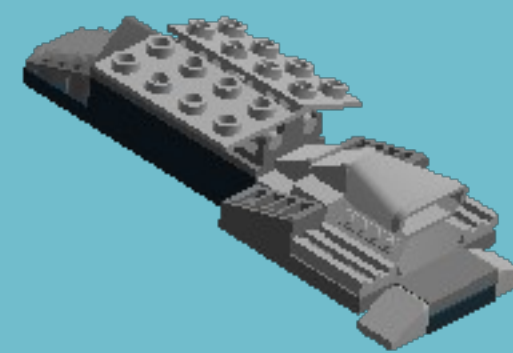
An **Engine** represents a type of Machine Learning task, e.g. Recommendation



Data

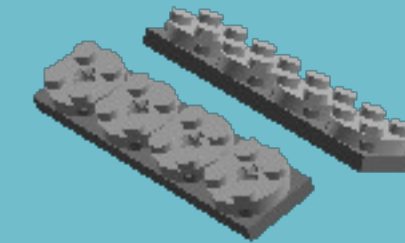
Data Source reads data from a source (e.g., Database, Text file) and prepares the *Training Data*.

Data Preparator takes the *Training Data* and generates *Prepared Data*.



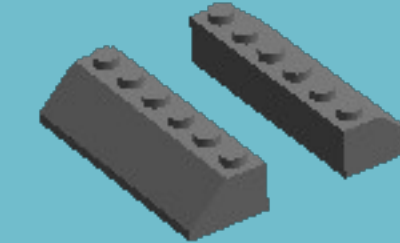
Algorithm

Algorithm takes *Prepared Data* to train a *Model* which is used to make *Prediction* outputs based on input *Query*.



Serving

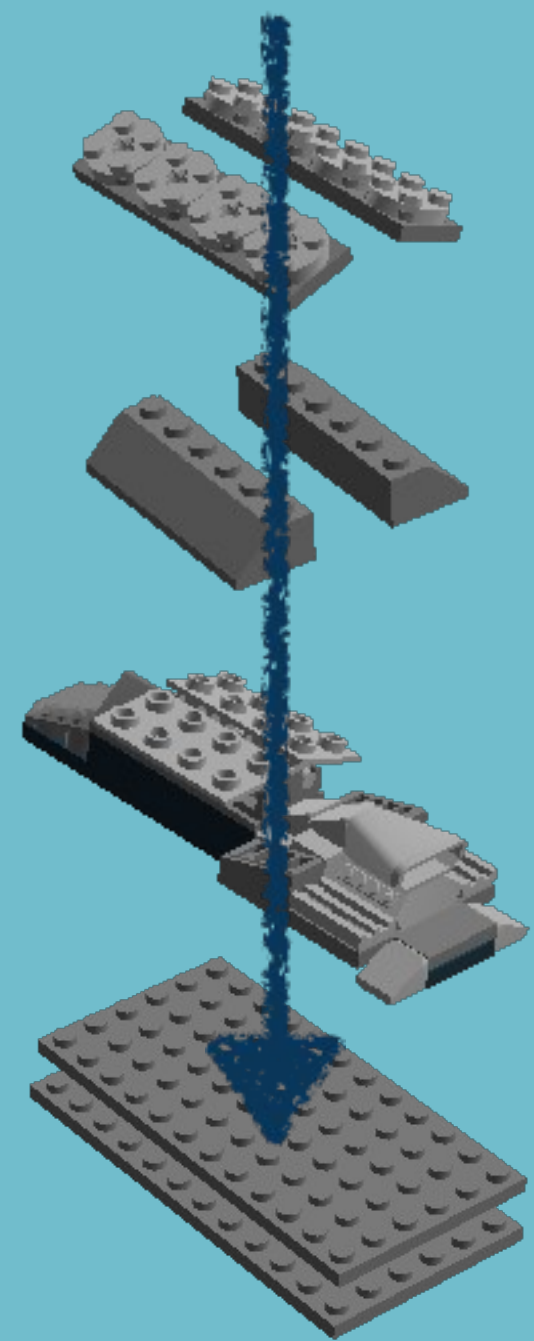
Serving serves the input *Query* and *Prediction* output.



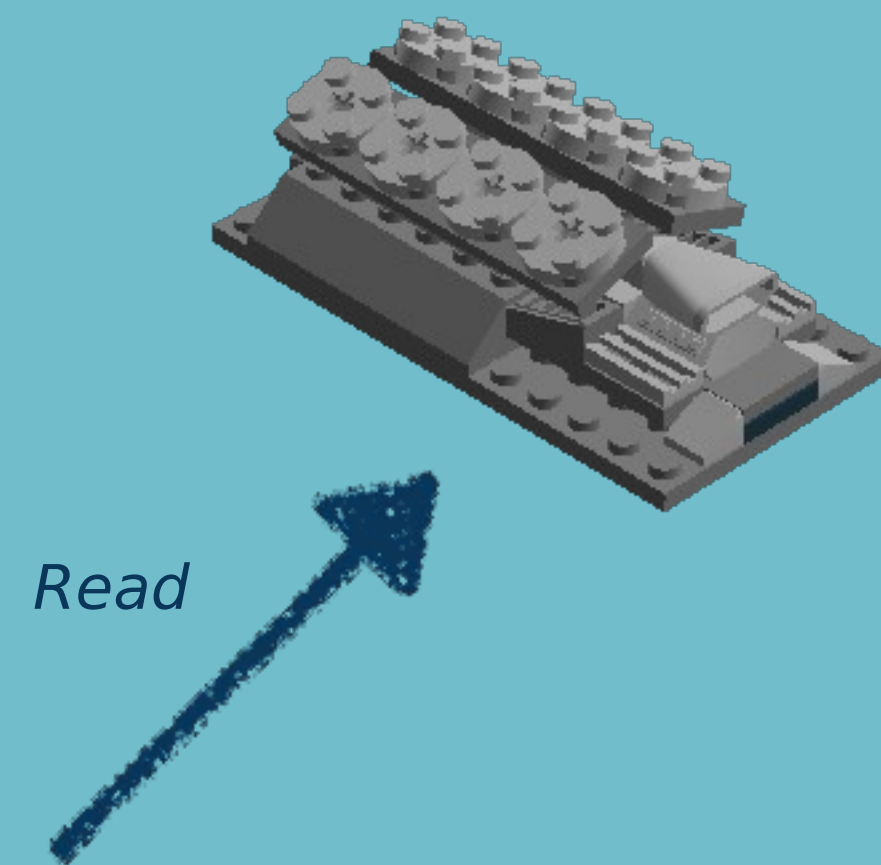
Evaluation

Evaluation Metrics is used to evaluate the Engine based upon *Test Data* and by comparing the *Prediction* output with the *Actual* result

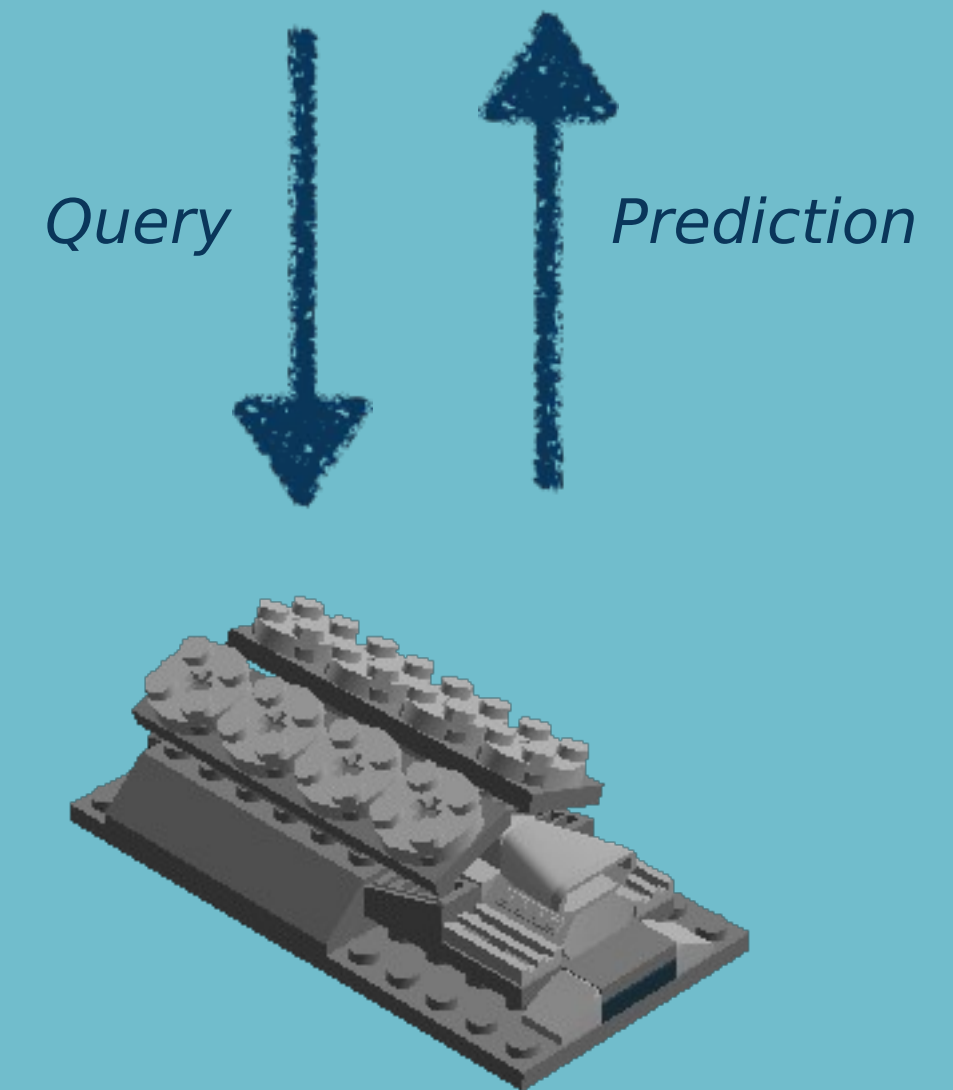
pio build

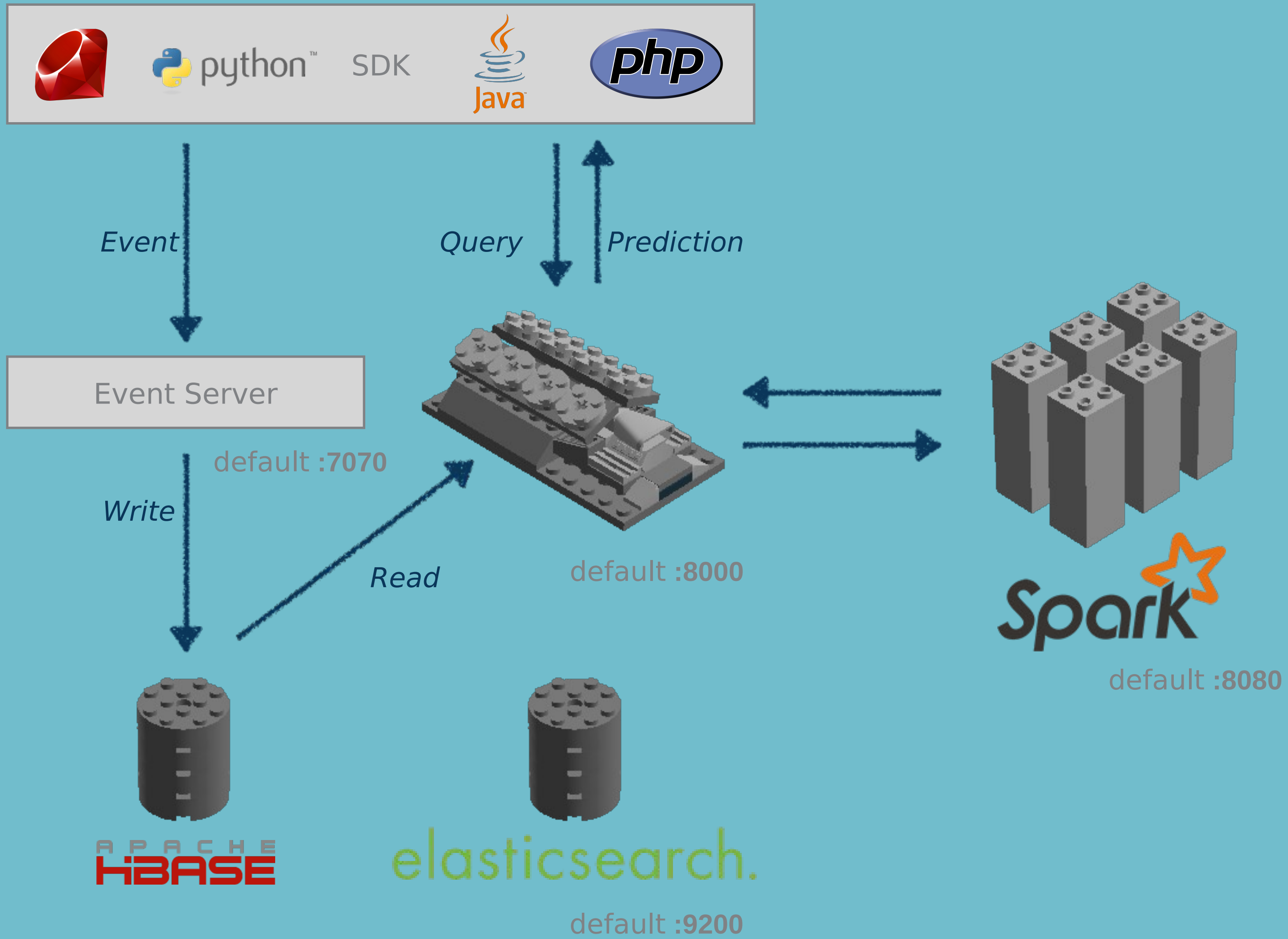


pio train



pio deploy





Recommendation Engine Template

<http://templates.prediction.io/PredictionIO/template-scala-parallel-recommendation>

<https://github.com/PredictionIO/template-scala-parallel-recommendation>



<http://prediction.io>



@PredictionIO



github.com/predictionio



paul@prediction.io