Visual Spark

A visual Spark simulator, composing a data *source*, Spark *flow* and data *sink*.

Data Source

Cassandra, Hdfs, Kafka, Text, etc…

Spark Flow

Transformations and Action

Data Sink

Cassandra, Hdfs, Kafka, Text, etc…

Spark Simulator

Executes a visual simulation of a
Data Source ~> Spark Flow ~> Data Sink
pipeline.

Technologies

- Java or Scala
- JavaFX or ScalaFX
- Spark
- Data Source and Sink Technologies

Rationale

- Spark engineers work with Java, Python and Scala.
- Spark simulations can be built with Java, Jython and Scala using JavaFX or ScalaFX.
- JavaFX includes Charts, 2D, 3D and Animations.
- Third party JavaFX charts and components exist.
- JavaFX includes a WebView component that allows for the rendering of Javascript content. For instance, D3 could be used to build an exotic chart.

Prototype

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