

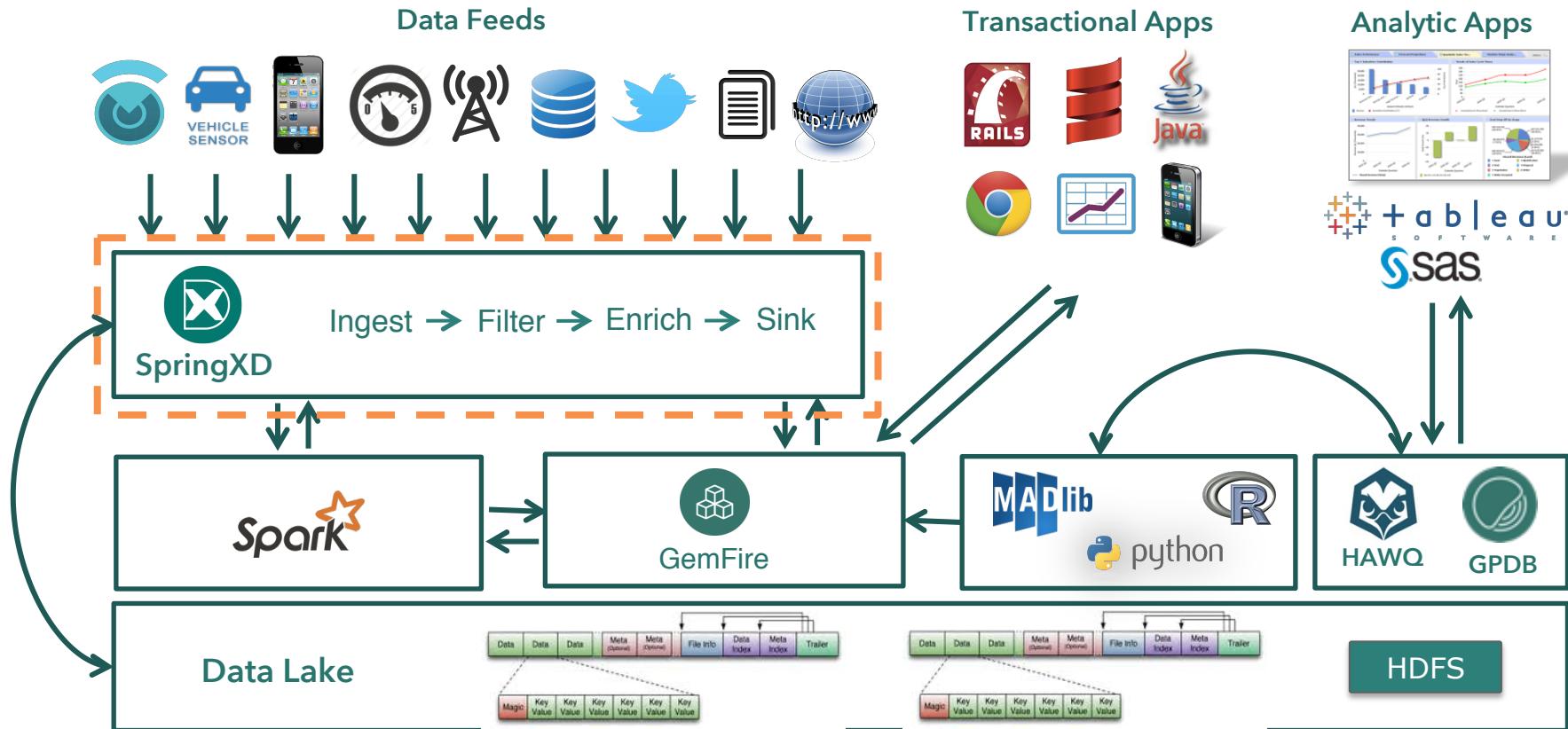
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A NEW PLATFORM FOR A NEW ERA

Data Streaming with Spring XD

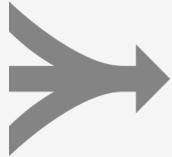
Hands-on Lab using Pivotal Big Data Suite

Data Streaming Reference Architecture



Spring XD – State of the Art Data Pipeline automation

INGEST / SINK



- No coding required
- Dozens of built-in connectors
- Seamless integration with Kafka, Sqoop
- Create new connectors easily using Spring

PROCESS



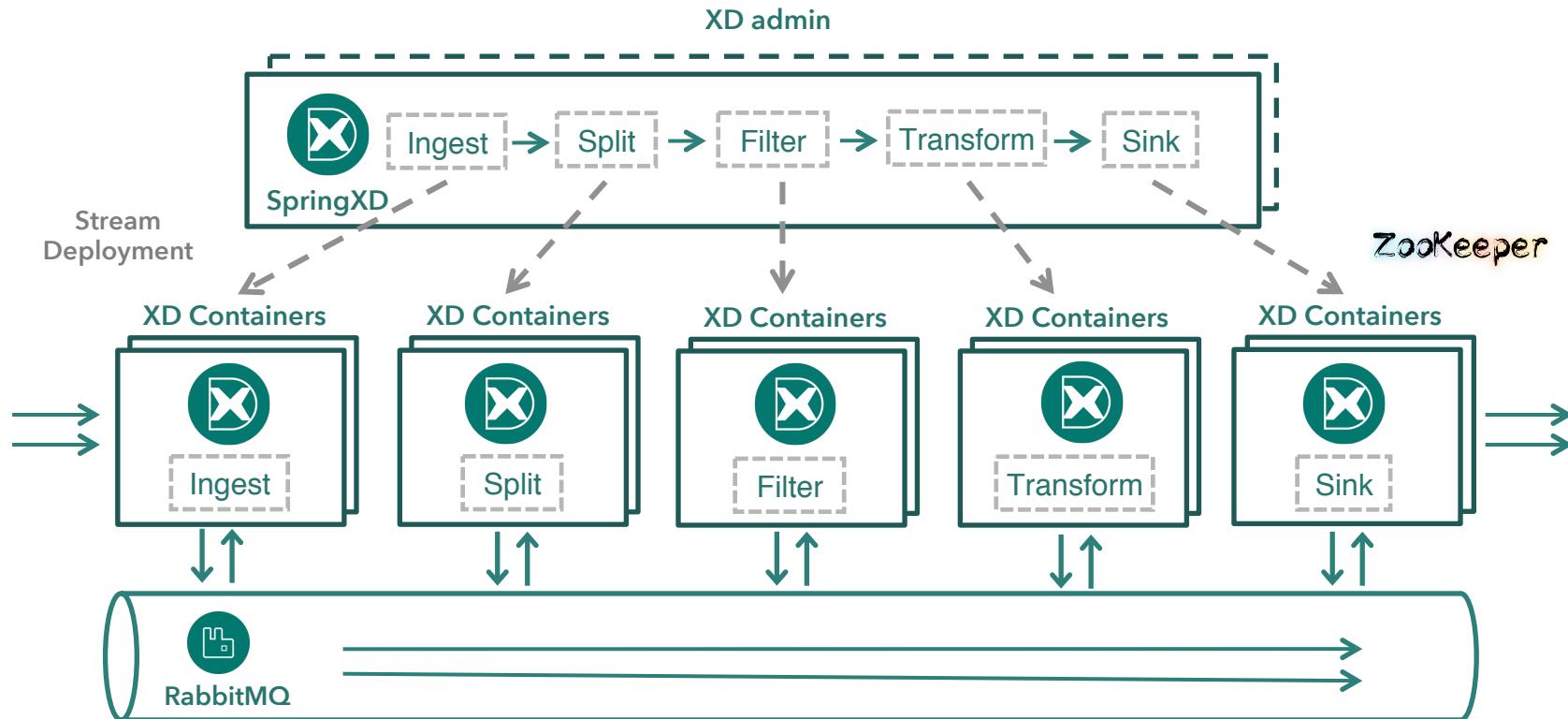
- Call Spark, Reactor or RxJava
- Built-in configurable filtering, splitting and transformation
- Out-of-box configurable jobs for batch processing

ANALYZE

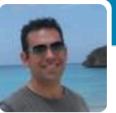


- Import and invoke PMML jobs easily
- Call Python, R, Madlib and other tools
- Built-in configurable counters and gauges

Spring XD Scale-Out and HA Architecture



Demo: aggregating data from Twitter



Fred Melo
@fredmelo_b
TWEETS 1,504 FOLLOWING 304 FOLLOWERS 377

Trends · Change

- Wichita State
- Singapore
- #ascd15
- #EIClasico
- #MarchMadness
- #HappyBirthdayTylerOakley
- #TheWalkingDead
- Suarez
- Lee Kuan Yew
- Ted Cruz

What's happening?

View 1 new Tweet

Earth Pics @EarthPix · 24s
Lava Fountains Erupt in Iceland
Photo by Erez Marom



View photo

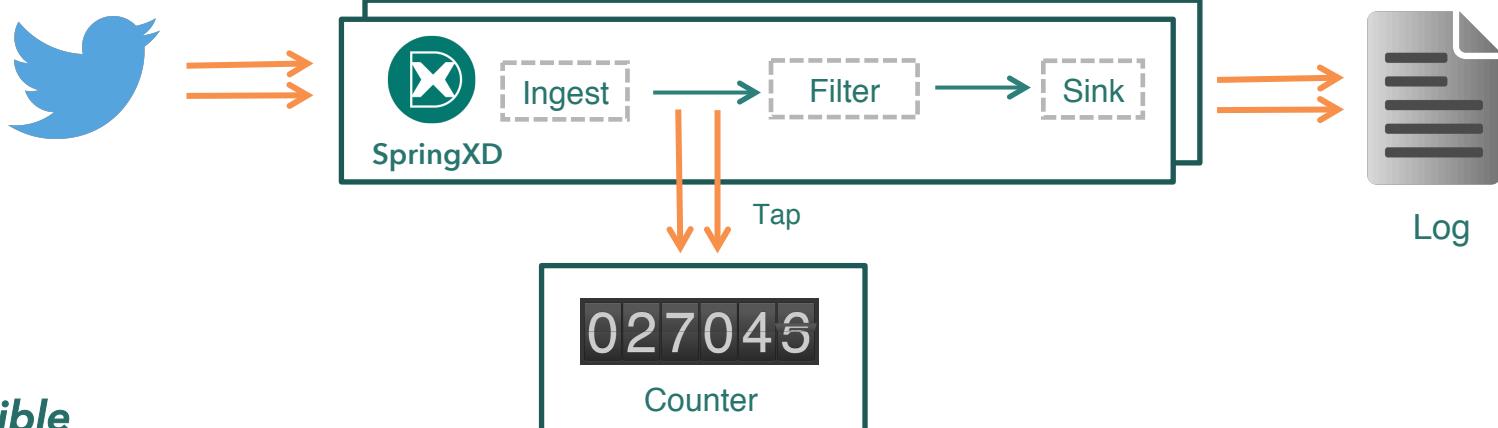
Left arrow | Retweet 4 | Star 10 | More

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Find people you know · Popular accounts

Demo: aggregating data from Twitter

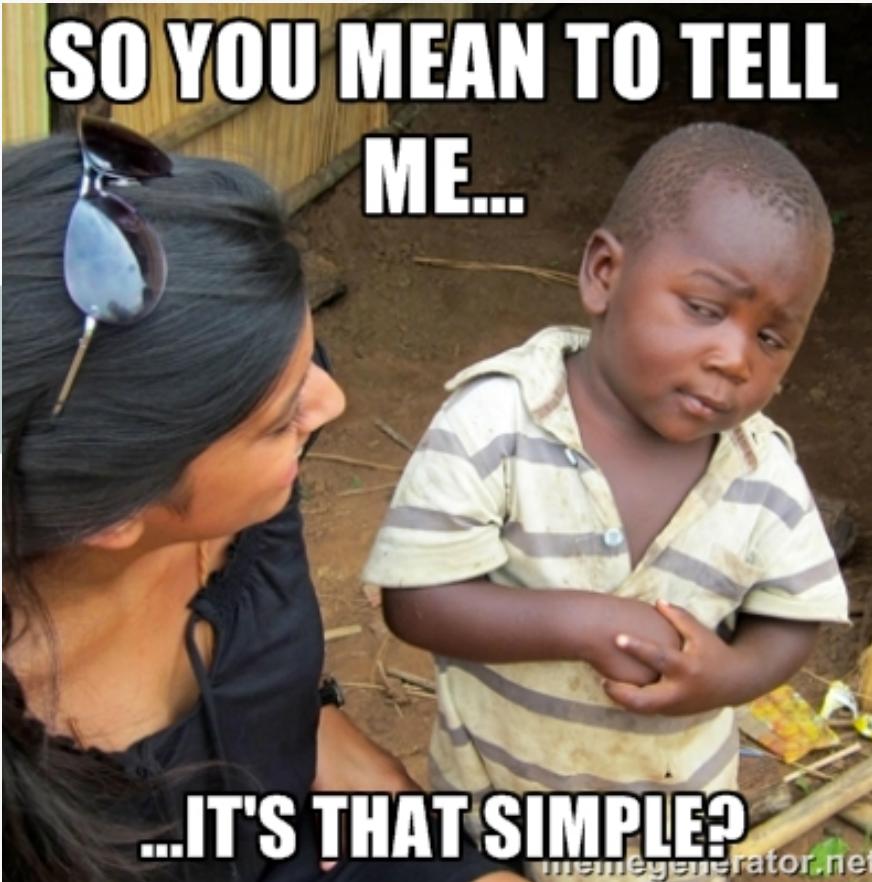


**Fast
Extensible
Open-Source
Fault-Tolerant
Horizontally Scalable**

Counter aggregated
by tweet language

Pivotal

Demo: aggregation

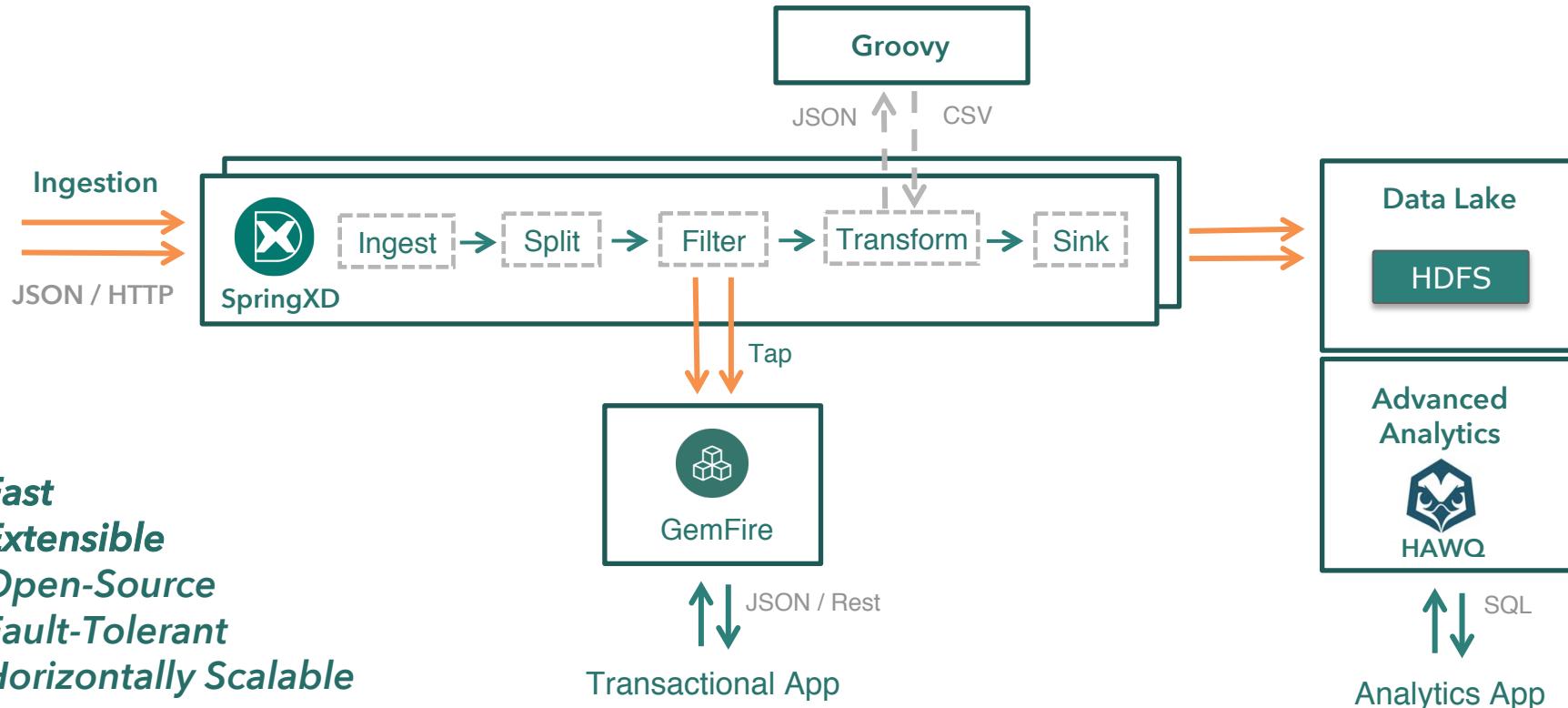


*Fast
Extensible
Open-Source
Fault-Tolerant
Horizontally Scalable*



Log

What you'll build with no source code required





branch: master

[BigDataRoadshow](#) / [labs](#) / [03-springxd](#) / [03-springxd.adoc](#)

melofred a day ago Update 03-springxd.adoc

1 contributor

448 lines (358 sloc) | 15.863 kb

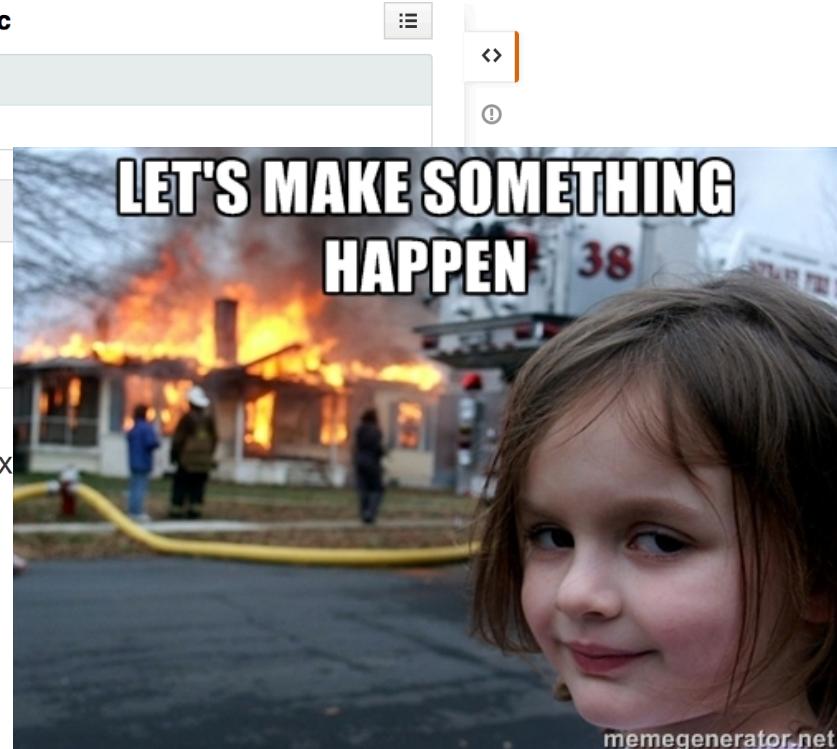
Spring XD lab

This lab will go through a general overview using Spring XD.

For lab and demo purposes, we'll be using a single node system, although Spring XD

Pre-Requisites

- [Spring XD v1.1.0+](#) installed
- [GemFire v8.1+](#) installed
- [PHD+Hawq v2.1+](#) installed



```
$ git clone http://tinyurl.com/pivotal-big-data-roadshow
```

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