

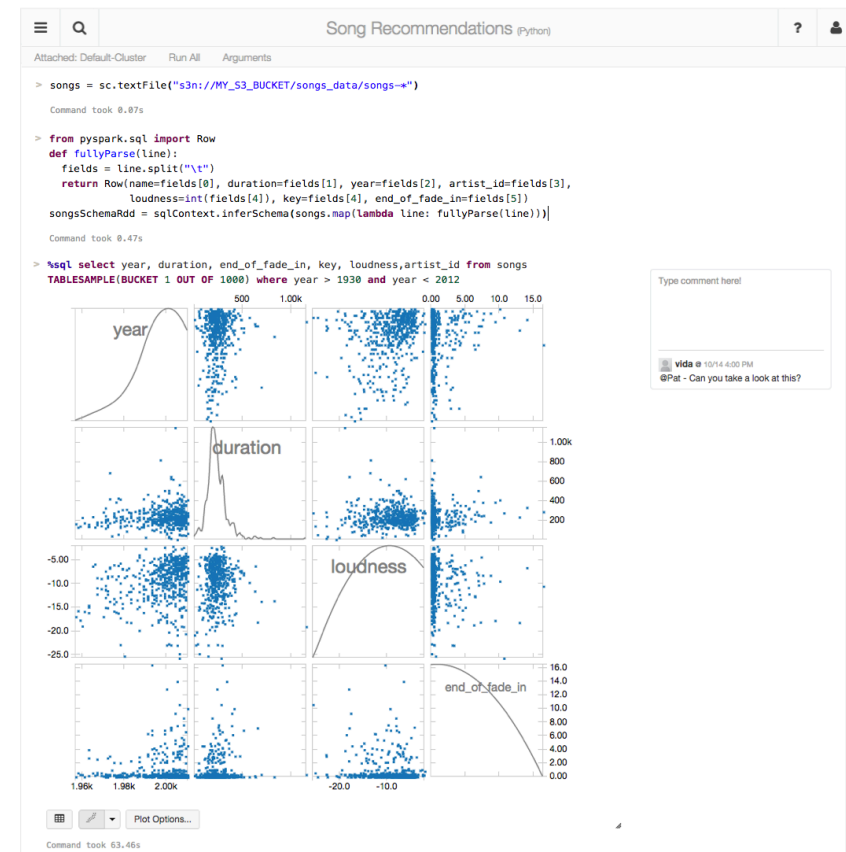


Exploring Wikipedia with *Spark*



making big data simple

- Founded in late 2013
- by the creators of Apache Spark
- Original team from UC Berkeley AMPLab
- Raised \$47 Million in 2 rounds
- ~65 employees
- We're hiring!
- Level 2/3 support partnerships with
 - Hortonworks
 - MapR
 - DataStax



Databricks Cloud:

“A unified platform for building Big Data pipelines – from ETL to Exploration and Dashboards, to Advanced Analytics and Data Products.”

The Databricks team contributed more than 75% of the code added to Spark in the past year

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- 15+ years building systems for startups and large enterprises
- 8+ years teaching front- and back-end technology
- Fun big data projects...
 - Streaming neural net + decision tree fraud scoring (debit cards)
 - Realtime & offline analytics for banking
 - Music synchronization and licensing for networked jukeboxes
- Industries
 - Finance
 - Travel
 - Media / Entertainment

Today's Objectives

- Learn just enough to build simple prototypes/POCs with Spark
- Fast paced, high level overview of all major Spark components
- Hands on with Spark's programming APIs (*DataFrame/SQL, RDD, Datasets*)
- Overview of Spark architecture: Core, Streaming, Standalone Mode, DAG
- Mix of beginner + advanced topics
- Not all slides/labs covered (*reference & homework material*)
- Lots of ideas, code & datasets to play around with after class

Schedule

9:00 a.m. – Welcome, Login

Data Analysis (DA) and Query Execution (DE) - pagecounts and pageviews datasets

10:45 – 11 a.m. Coffee Break

Clickstream Analytics (DA), Infrastructure (DE) - clickstream and pagecounts datasets

12 p.m. – 1 p.m. Lunch

RDD, Dataset, Storage/Memory (DE) – pagecounts
ETL / Graph Analysis – clickstream

2:15 p.m. – 2:30 p.m. Soda Break

NLP / Machine Learning

4:00 p.m. – 4:15 p.m. Coffee Break

Spark Streaming

Files and Resources

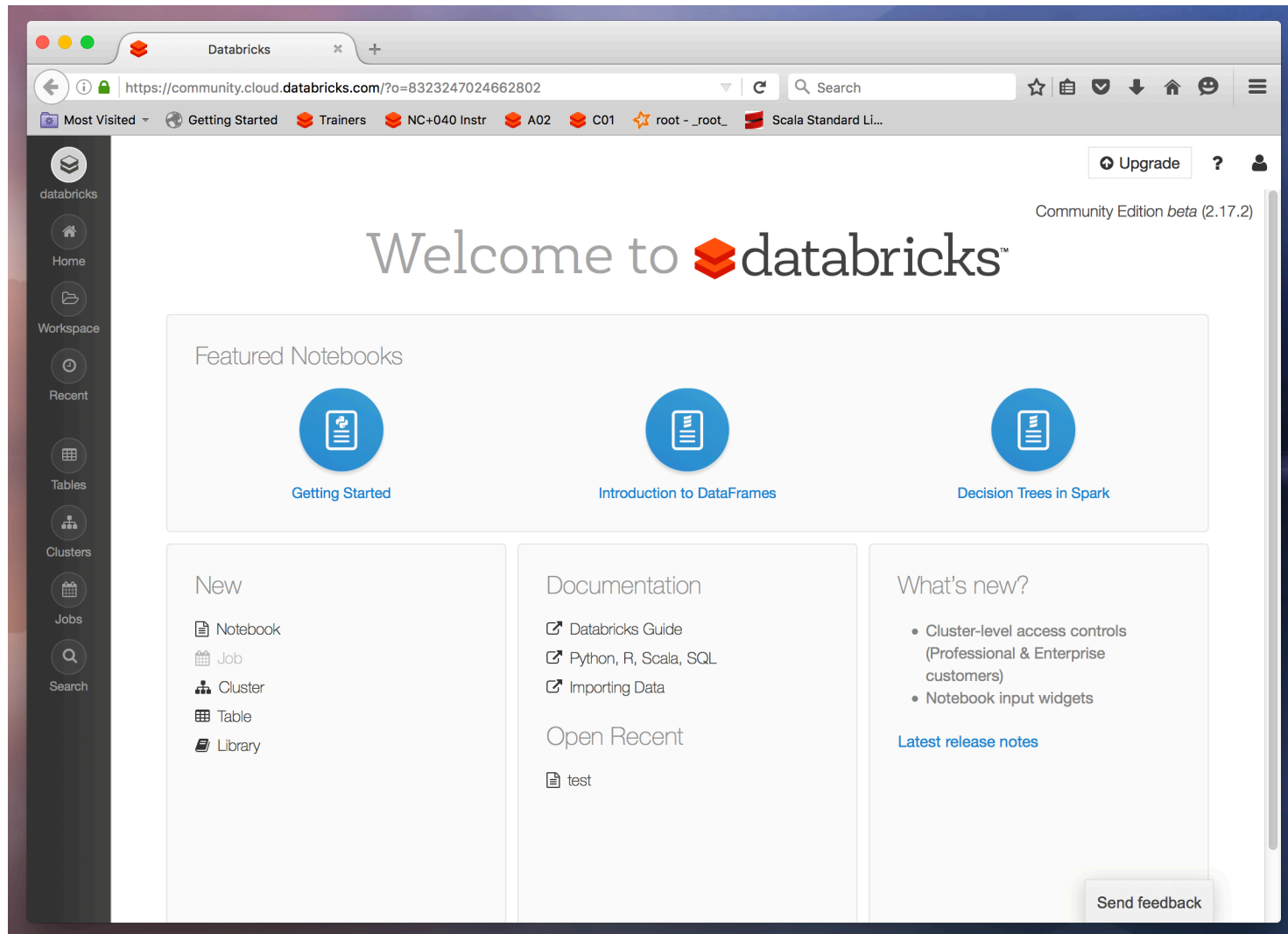
Documents

- Slides and files available at <http://tinyurl.com/Spark-Wiki-Files>
- Class Notes: <http://tinyurl.com/Spark-Wiki-TW3>

Databricks

- Databricks login at: <https://ssw2016.cloud.databricks.com>
 - Username distributed by email prior to class
 - Password is **BigDataSimple#01**
 - Please let us know ASAP if there is a problem
- Use a laptop with **Firefox** or **Chrome**
 - Internet Explorer / MS Edge not supported

Go Ahead and Log in to Databricks!



End of Intro