#### coursera

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### Lesson 1: Introduction to Apache Spark

- Video: Introduction to Apache Spark 8 min
- Video: Architecture of Spark 7 min
- Reading: Setup PySpark on the Cloudera VM

  10 min
- Reading: Lesson 1: Intro to Apache Spark - Slides 10 min
- Quiz: Spark Lesson 1 6 questions

### Lesson 2: Resilient Distributed Datasets and Transformations

- Video: Resilient Distributed
  Datasets
  10 min
- Video: Spark
  Transformations
  10 min
- Video: Wide
  Transformations
  10 min
- Reading: Lesson 2: RDD and Transformations Slides

  10 min
- Quiz: Spark Lesson 2 5 questions
- Programming Assignment:
  Simple Join in Spark
  3h

#### Lesson 3: Job scheduling, Actors, Caching and Shaud Variables

Video: Directed Acyclic

## [One time setup] Install IPython

From the top left menu, Open a terminal: Applications => System Tools => Terminal

Type:

1 sudo easy\_install ipython==1.2.1

Hit enter, administrator password is **cloudera**.

# Launch pyspark with IPython

Every time you need to open the pyspark shell, open a terminal and type:

1 PYSPARK\_DRIVER\_PYTHON=ipython pyspark

Hit enter, after the startup logs, you should see the pyspark console:



#### Check version

To make sure that PySpark started correctly, print out the version by typing in the PySpark IPython terminal: