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of-spark) 1-intro-to-apache-spark-slides)

## [One time setup] Install IPython

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

Type:

```
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:

```
PYSPARK_DRIVER_PYTHON=ipython pyspark
```

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

A screenshot of a terminal window showing the PySpark console. The text displayed is: "Welcome to", followed by a large, stylized "PySpark" logo, and "version 1.3.0". Below this, it says "Using Python version 2.6.6 (r266:84292, Feb 22 2013 00:00:18)" and "SparkContext available as sc, HiveContext available as sqlCtx.". At the bottom, it shows the IPython prompt "In [1]:" with a red cursor.

## Check version

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

```
sc.version
```

Verify that the output is:

```
1.3.0
```

# Python resources

This module requires a basic knowledge of Python to perform the programming assignments.

I recommend to take the interactive tutorial at: <http://learnpython.org>  
([https://eventing.coursera.org/api/redirectStrict/aTfloUcgfeYZ2wadYnYc00Udxm\\_OD2\\_LQ1BUOHUJ9AHNtHjjYQTrW0Sq-L5WebHDeLxJ9o2a2Z7msP\\_O\\_fXMgQ.J51pM51xjb-o2SZ5lp2EuQ.owiTMV3CaB\\_RDUGn\\_6yk2CSuIlC8tFXGtOqbXsaiGhCBdasb8VuNPwieU9Lp41wp5WZQpzadml6Hj19YiWrHT0Gz2RoFIYJN9AI0d1\\_ZlPypcxNZb6Zz8gVsNCS-GIL9Qfj1M4S\\_4lovbhbM9w\\_F7Q8wuWFeAWi8yUhZajzIRzdUSqdLyQsdduM7nSEO7Uzz8jb3A-RejU\\_BqKMi36JG\\_i7amU7hpkwJP4xK1LtrxbRYmIxnIrlNTcHOuuscY9RK](https://eventing.coursera.org/api/redirectStrict/aTfloUcgfeYZ2wadYnYc00Udxm_OD2_LQ1BUOHUJ9AHNtHjjYQTrW0Sq-L5WebHDeLxJ9o2a2Z7msP_O_fXMgQ.J51pM51xjb-o2SZ5lp2EuQ.owiTMV3CaB_RDUGn_6yk2CSuIlC8tFXGtOqbXsaiGhCBdasb8VuNPwieU9Lp41wp5WZQpzadml6Hj19YiWrHT0Gz2RoFIYJN9AI0d1_ZlPypcxNZb6Zz8gVsNCS-GIL9Qfj1M4S_4lovbhbM9w_F7Q8wuWFeAWi8yUhZajzIRzdUSqdLyQsdduM7nSEO7Uzz8jb3A-RejU_BqKMi36JG_i7amU7hpkwJP4xK1LtrxbRYmIxnIrlNTcHOuuscY9RK)), the "Learn the basics" section should be enough.

Then if you want to learn more about Python, even if not necessary for this class, you can check the Coursera class:

<https://www.coursera.org/learn/python>  
([https://eventing.coursera.org/api/redirectStrict/CUsRktCx-lqstz2Y-Vh8LTYcUfLO-6XqGES3c7IhzokXbiKoCjHu2NDa6r3T\\_d3UHqv81h\\_y3pKbUaTaYXs8xQ.pN2AHI6-ApO3xwS8IO9NfA.tgArGk2TYGZMoKuSEJ5rnUtb9yq0ePUoSLGk67jJoUHvNH0g9luO9A82U0PSMm4YXjrj2L9n2N1Dtzx0I3kLadTAzzTDrL9aMsDdeDyy0IXtUmcyt\\_Sfx3q3\\_UrEAYvEOu6s-2X2kzEFqRhPaSF4Y-Wlzz32r0cBwLBjT14qWF2Yke6h4rPi93SAsiPyMIPfCzNDnK2B3Wj84DsFvXsM\\_DFm6ZCCBpcxVajPD9TgzbGmjy-19XjPAmXfi4qv1iCQlPkD4mpKYMeAjfUzKWCGsjcaY87qNQiFL8Hy6d\\_FWs](https://eventing.coursera.org/api/redirectStrict/CUsRktCx-lqstz2Y-Vh8LTYcUfLO-6XqGES3c7IhzokXbiKoCjHu2NDa6r3T_d3UHqv81h_y3pKbUaTaYXs8xQ.pN2AHI6-ApO3xwS8IO9NfA.tgArGk2TYGZMoKuSEJ5rnUtb9yq0ePUoSLGk67jJoUHvNH0g9luO9A82U0PSMm4YXjrj2L9n2N1Dtzx0I3kLadTAzzTDrL9aMsDdeDyy0IXtUmcyt_Sfx3q3_UrEAYvEOu6s-2X2kzEFqRhPaSF4Y-Wlzz32r0cBwLBjT14qWF2Yke6h4rPi93SAsiPyMIPfCzNDnK2B3Wj84DsFvXsM_DFm6ZCCBpcxVajPD9TgzbGmjy-19XjPAmXfi4qv1iCQlPkD4mpKYMeAjfUzKWCGsjcaY87qNQiFL8Hy6d_FWs))

