



•


**M**

•

• **M**

Python

Python

**M**

**M**

**1**

OS

**a**

•

• **a**

Hadoop

HDFS                      HDFS                      ;

Hive

HQL

•  
•

Python

HTTP

HTTP

Cookie

urllib3

Requests

HTTP

Chrome

Xpath

Beautiful Soup

JSON

•

•

matplotlib pyplot

•




