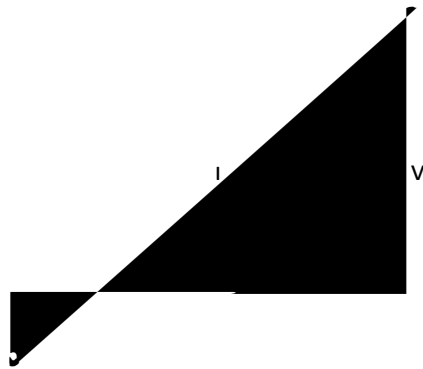


4

EV

I

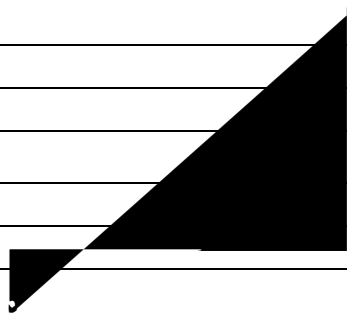
V



I

EV

	I	
	EV	



I

Python  
Python

1

2

OS

1

EV

EV

E

E

Hadoop

1 HDFS HDFS ;  
Hive  
HQL

1

Python  
HTTP  
HTTP  
Cookie

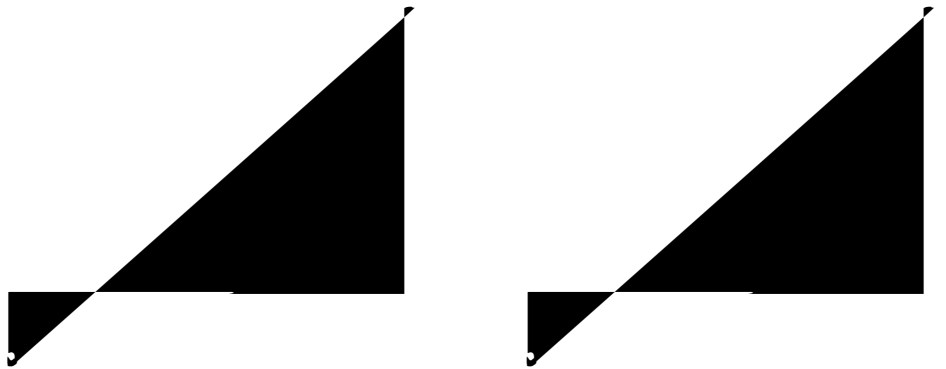
urllib3 Requests HTTP  
Chrome Xpath Beautiful Soup  
JSON

1

matplotlib pyplot

1

1



	I	I I I
	EV	EV H EV EV E EV E EV
		E v ct v



4



4

	4	1 4 4 4
	4	4 1 4 1 V 4 4
		4 1 4 1 V 4 4
		4 1 4 1 V 4 4 4 4