

•

mm

m

m

mm

m

mm

	m	
	mm	

m

m

Python
Python

.

OS

.

nm

nm

gch

Hadoop

matplotlib pyplot

.

.

.

	m	m m m
	nm	nm nm nm nm g ch nm
		g ch ch ch g m

		chg
		m m m ch g g
		m m m ch g g
		m m m ch g g