Introduction to Python

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Using Python

- Command line
- Notebooks
- VM

Start Python, Variables

```
hk:~ jbg$ python3
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 26 2016, 10:47:25)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type ``help'', ``copyright'', ``credits'' or ``license'' fo
>>> 3 + 2
5
>>> a = 5
>>> a * 5
25
```

Define Function

```
>>> def logistic(x):
...     return 1.0 / (1 + exp(-x))
...
>>>
```

Errors!

```
>>> logistic(3.0)
Traceback (most recent call last):
  File ''<stdin>'', line 1, in <module>
  File ''<stdin>'', line 2, in logistic
NameError: name 'exp' is not defined
```

Importing Functions

```
>>> logistic(-100)
3.7200759760208356e-44
>>> logistic(100)
1.0
>>> logistic(0)
0.5
```