

# Learn to use jupyter

April 2, 2018

## 1 My first use of jupyter notebook

### 1.1 1st line of codes

```
In [2]: print('hello world!')
```

hello world!

### 1.2 Merge cells

```
In [3]: print("merge")
```

```
print("cell")
```

merge

cell

### 1.3 Using web pictures

### 1.4 Using mathematical formula

$$\int_0^{+\infty} \frac{1}{\sqrt{1+x^2}} dx$$

### 1.5 Matplotlib try

```
In [6]: %matplotlib inline
```

```
In [11]: import matplotlib.pyplot as plt
import numpy as np
```

```
x = np.linspace(-np.pi,np.pi,100)
```

```
y = np.sin(x)
```

```
plt.plot(x, y)
```

```
Out[11]: [<matplotlib.lines.Line2D at 0x200b95962e8>]
```

