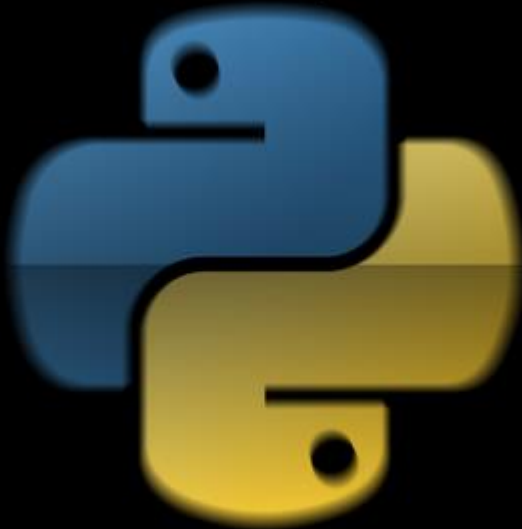




Michael Presents

Python Programing In Action

Harness the power of

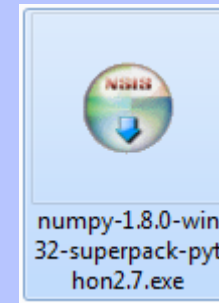
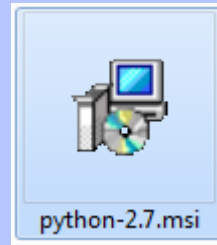


Python.

What is Python?

- *Python is a widely used general-purpose, high-level programming language.*
- *Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than would be possible in languages such as C.*
- *The language provides constructs intended to enable clear programs on both a small and large scale.*

- NetBeans IDE 7.0.1
- Notepad++
- NVIDIA PhysX
- Opera 12.16
- Personal Logger 3.2.9.0
- Prerequisites for SSDT
- Python 2.7
- Python 2.7 numpy-1.8.0
- QuickTime
- Realtek Ethernet Controller Driver
- Realtek HDMI Audio Driver for ATI



Installation

1. Install Python 2.7;
2. System variables;
3. Install Numpy;

Administrator: C:\Windows\system32\cmd.exe - python

```
C:\Users\Michael Young>d:
```

```
D:\Michael\Python>cd "D:\Michael\Python"
```

```
D:\Michael\Python>python
```

```
Python 2.7 (r27:82525, Jul 4 2010, 09:01:59) [MSC v.1500 32  
32  
Type "help", "copyright", "credits" or "license" for more inf  
>>> quit()
```

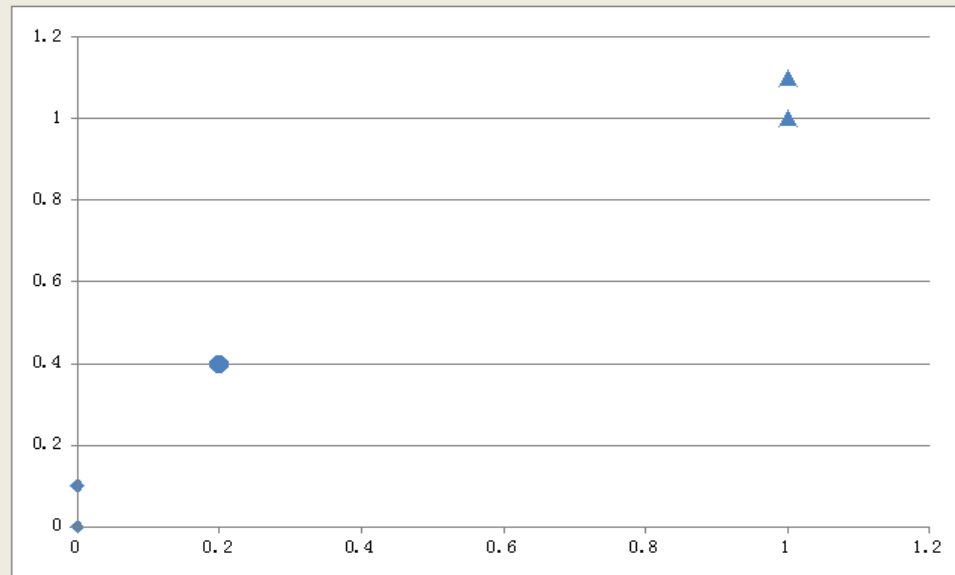
```
D:\Michael\Python>python
```

```
Python 2.7 (r27:82525, Jul 4 2010, 09:01:59) [MSC v.1500 32  
32  
Type "help", "copyright", "credits" or "license" for more inf  
>>> import kNN  
>>> group, labels = kNN.createDataSet()  
>>> sort = kNN.classify0([0,0],group,labels,3)  
>>> print sort  
B  
>>> sort = kNN.classify0([0.9,0.9],group,labels,3)  
>>> print sort  
A
```

Get Started

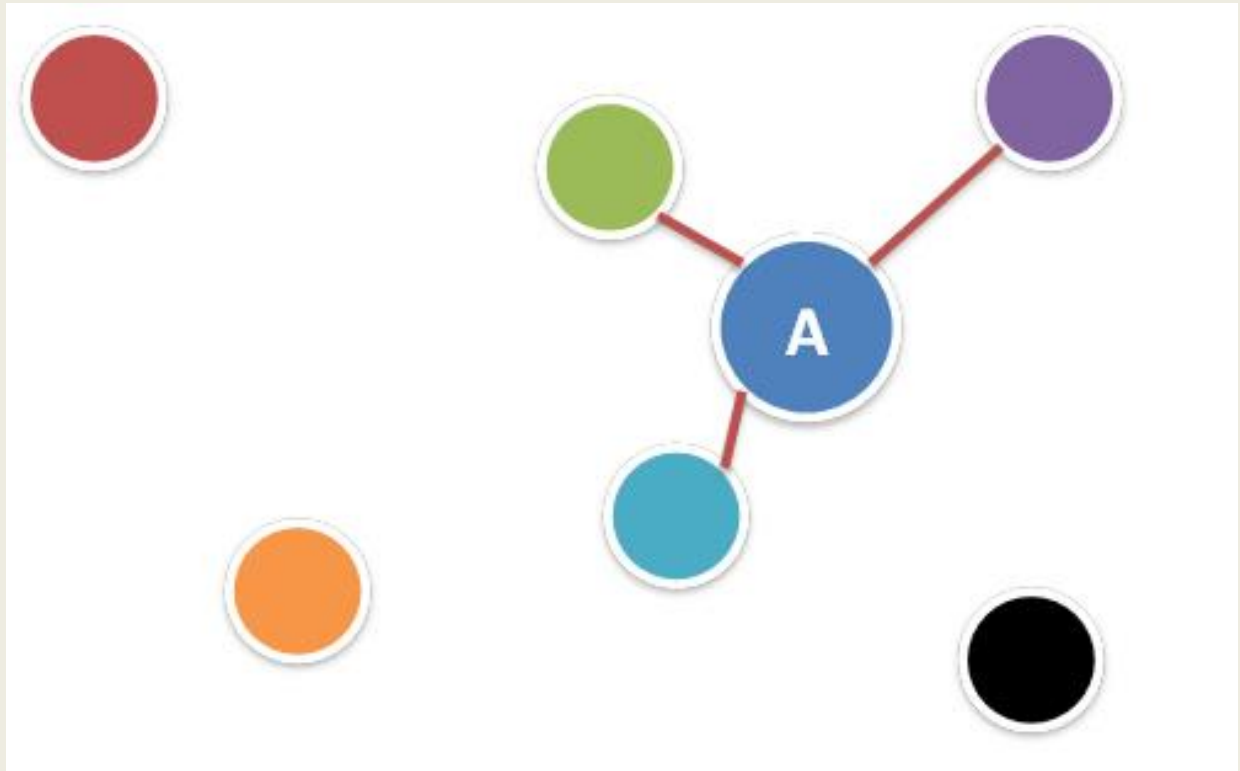
- *Define a function*
- *Object Oriented*
- *How to import*

kNN Algorithm



1. Get distance; 2. Rang the order; 3. Calculate K points

4. Show up frequency; 5. Get most similar point from K points



Thank You