

```
pip install -U scikit-fuzzy
```

```
Collecting scikit-fuzzy
  Downloading scikit-fuzzy-0.4.2.tar.gz (993 kB)
    |████████████████████████████████████████| 993 kB 10.0 MB/s
Requirement already satisfied: numpy>=1.6.0 in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: scipy>=0.9.0 in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: networkx>=1.9.0 in /usr/local/lib/python3.7/dist-packages
Building wheels for collected packages: scikit-fuzzy
  Building wheel for scikit-fuzzy (setup.py) ... done
  Created wheel for scikit-fuzzy: filename=scikit_fuzzy-0.4.2-py3-none-any.whl size=8
  Stored in directory: /root/.cache/pip/wheels/d5/74/fc/38588a3d2e3f34f74588e6daa3aa5
Successfully built scikit-fuzzy
Installing collected packages: scikit-fuzzy
Successfully installed scikit-fuzzy-0.4.2
```

```
import numpy as np
```

```
import skfuzzy as fuz
```

```
X = np.linspace(start= 0, stop=75, num=75, endpoint=True, retstep=False)
```

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```
b1 = [25, 50, 75]
```

```
young = fuz.membership.trimf(X, a1)
```

```
middle = fuz.membership.trimf(X, b1)
```

```
one = np.ones(75)
```

```
zeros = np.zeros((75,))
```

```
Union = fuz.fuzzy_or(X, young, X, middle)[1]
```

```
intersection = fuz.fuzzy_and(X, young, X, middle)[1]
```

```
complement = fuz.fuzzy_not(young)
```

```
import matplotlib.pyplot as plt
```

```
plt.figure()
plt.plot(X, young)
```

```
plt.figure()  
plt.plot(X, middle)
```

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```
plt.figure()  
plt.plot(X, Union)
```

```
plt.figure()
```

```
plt.plot(X, intersection)
```

```
plt.figure()  
plt.plot(X, complement)
```

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