

Laboratorium 6 – wskazówki

```
import numpy
import matplotlib.pyplot
```

https://pl.wikipedia.org/wiki/Analiza_g%C5%82%C3%B3wnych_sk%C5%82adowych

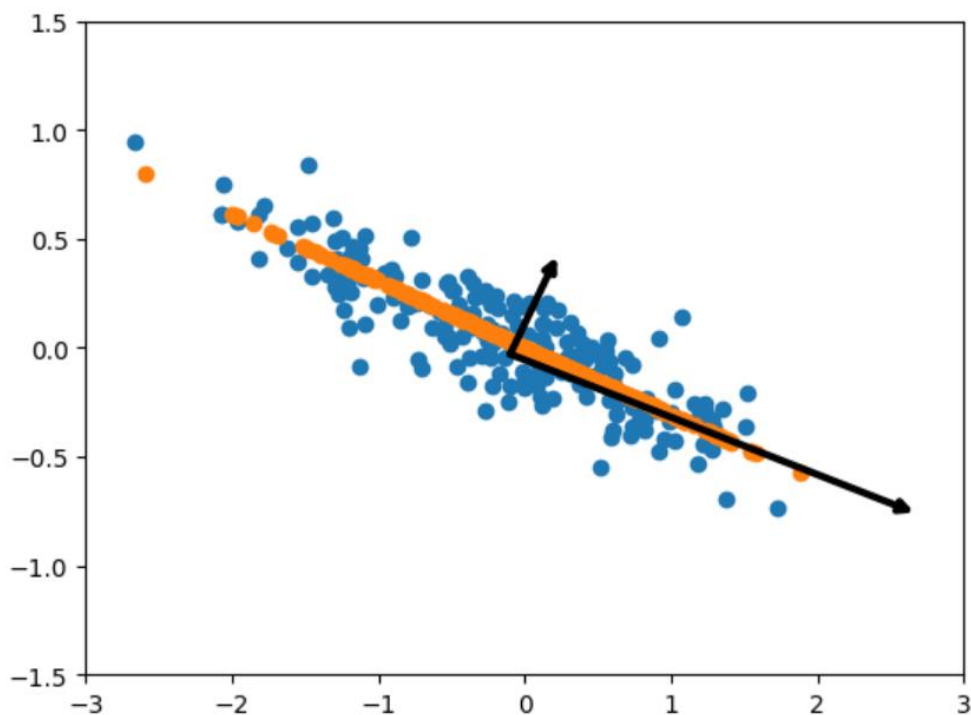
<https://medium.com/analytics-vidhya/understanding-principle-component-analysis-pca-step-by-step-e7a4bb4031d9>

<https://jakevdp.github.io/PythonDataScienceHandbook/05.09-principal-component-analysis.html>

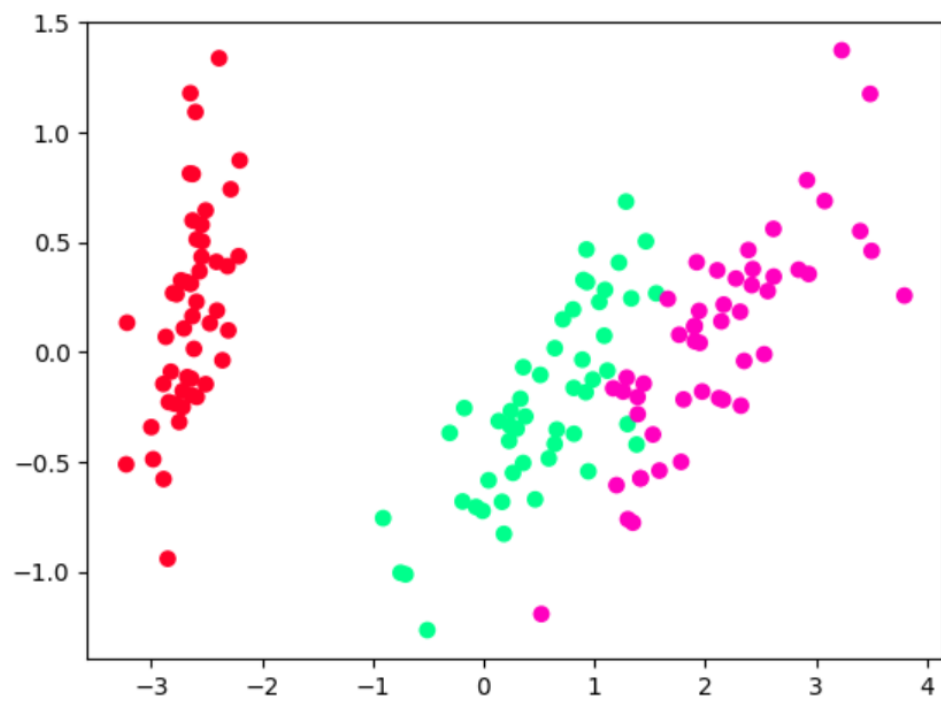
<https://towardsdatascience.com/a-step-by-step-implementation-of-principal-component-analysis-5520cc6cd598>

<https://builtin.com/machine-learning/pca-in-python>

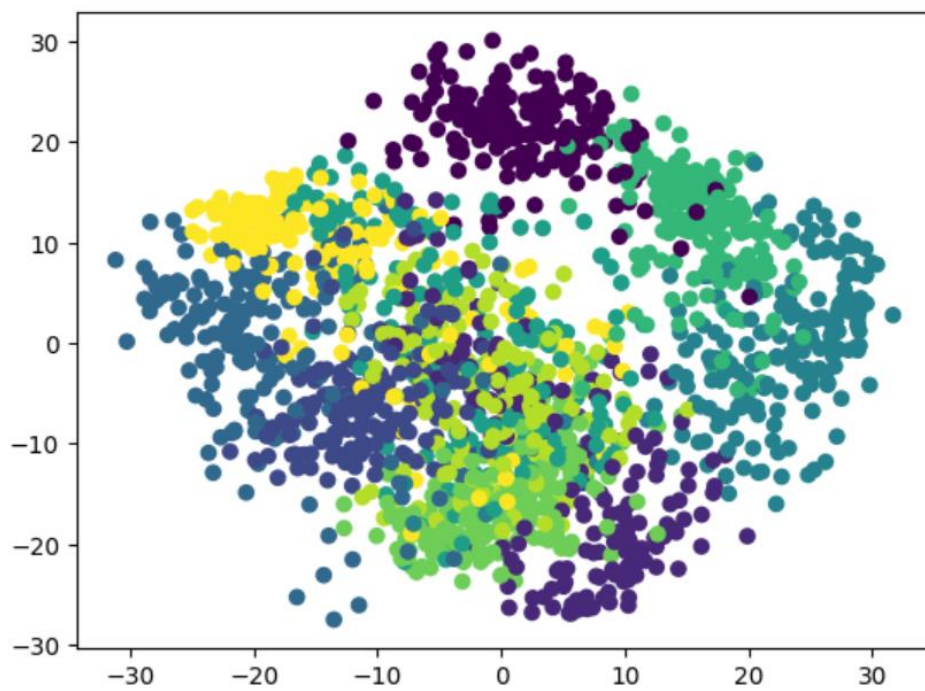
Zad.1



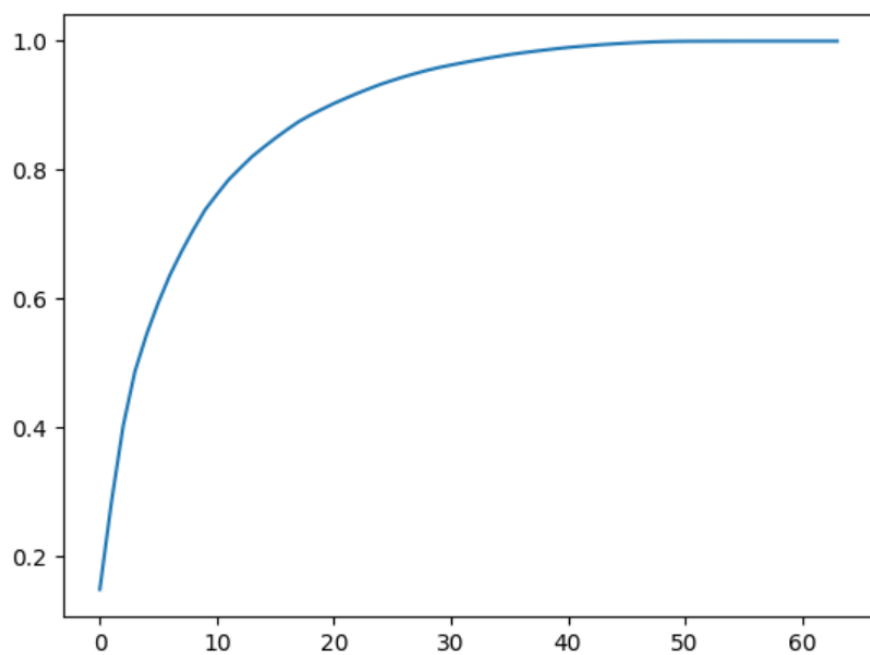
Zad.2



Zad.3



Krzywa wariacji



Wizualizacja błędu rekonstrukcji

