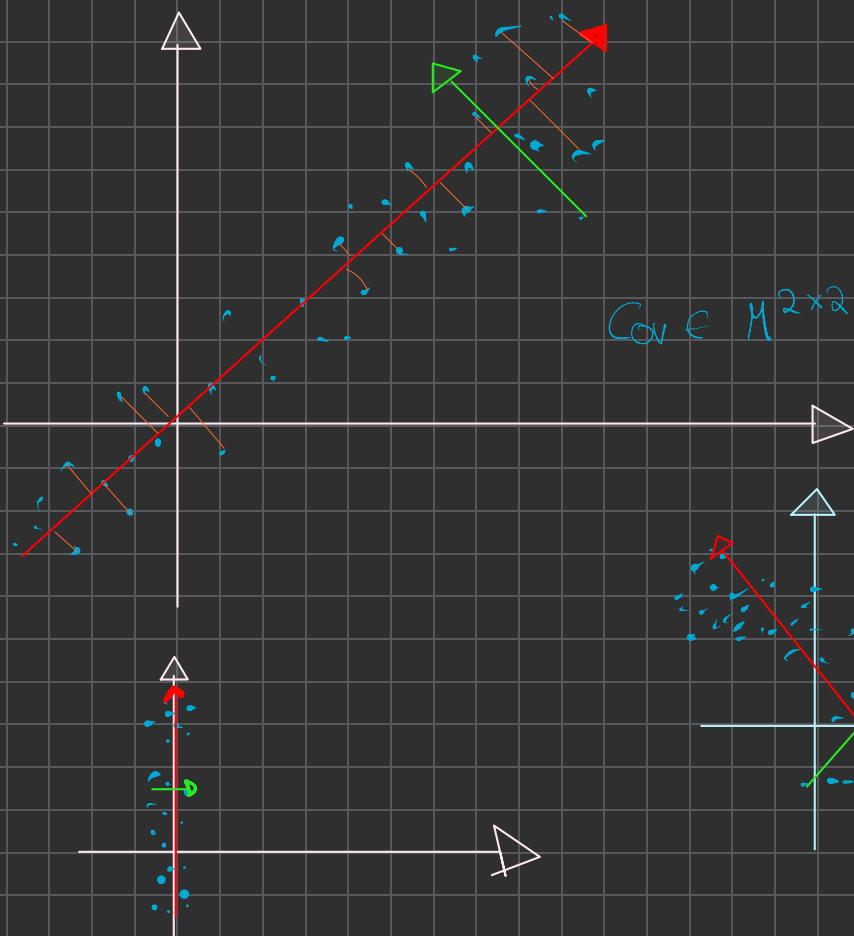


# PCA Principal Component Analysis

- Dimensionsreduktion
- Relevante & Unrelevante Features
- Eigenwertproblem lösen
- Features aussortieren anhand eines Schwellenwertes

→ Datensatzerkundung Indikation für Feature Relevance

max Varianz  
min Reconstruction error



2D → 1D

Training ↔ Rechenzeit



Sklearn decomposition PCA

n Components      explained variance  
                      ↓  
                      explained variance ratio  
                      wichtigsten Komponenten  
                      fit → Eigenvektoren  
                      transform