Module 3
 Motivation.

High dim data → often hard to visualize or analyze,
however high Dim data quite often possesses
the property that only a few dim
Contain most information, and most other
Dim are not essential to describe key
   properties of the data

when we Compress or visualize high Dim
data, we lose information,
 Ideally, we find the most informative dim
  in data and keep them when we Compress
 the data and ignore the irrelevant dimensions

In this Course, we will have a close look at
orthogonal projections which play a
   Central role in algorithms for
     dimensionality reduction.