* Resembling methods
* Cross validation
  + Validation set approach
  + Leave-one-out cross validation (LOOCV)
  + k- Fold Cross-Validation (k\_fold CV)
* Bootstrap?
* Subset Selection
  + Best Subset Section
  + Stepwise Selection
    - Forward
    - Backward
    - Hybrid?

↳ Choosing optimal model: Cp, AIC, BIC, Adjusted R?

* Shrinkage Methods (Unnötig weil für Regression und nicht classification gedacht?)
  + Ridge Regression
  + The lasso
  + Selecting the tuning parameter
* Dimension Reduction Methods?
  + Principal Components Regression (vlt?)
    - PCA
  + PLS (unnötig weil Regression?)
* Beyond linearity (glaube hat auch nichts mit uns zu tun)

Unsupervised (first Unsupervised)

* PCA
* K-means
* Hierarchical Clustering

Classification Algorithmen

* Logistics Regression
* Linear discriminate analysis
* Quadratic discriminate analysis
* K-nearest neighbor
* Support vector machines
* Decision trees