# A few concepts to summarize lecture 6

**CART:** Classification and regression trees. A class of nonparametric methods based on partitioning the input space into regions and fitting a simple model for each region.

**Recursive binary splitting:** A greedy method for partitioning the input space into "boxes" aligned with the coordinate axes.

**Gini index and deviance:** Commonly used error measures for constructing classification trees.

**Ensemble methods:** Umbrella term for methods that average or combine multiple models.

**Bagging:** Bootstrap aggregating. An ensemble method based on the statistical bootstrap.

**Random forests:** Bagging of trees, combined with random feature selection for further variance reduction (and computational gains).