Introduction Support Vector Machines (SVM)

Precondition
Before start check out:
>   You have read and understood
>   - Linear Regression
>   - Classification
>   If not look it up later.

The mission
In this lesson we will:
>   Introduce the concepts of SVM
>   Discuss various types of SVM
>   Introduce the kernel trick
>   See a real example

Outcome
After this lesson you have learned about:
>   SVM concepts
>   Linear SVM: hard and soft margin
>   Non-linear SVM
>   - Polynomial features
>   - Polynomial features with a kernel
>   Computational complexity

Next step
Its time for some assignments:
>   Discuss and answer theoretical questions in the assignment *"SVM Questions"*
>   Solve the *"SVM exercise"*