Homework 1 (by December 5, 2017)

- 1. practice building and running tensorflow graphs
- 2. implement Logistic Regression, i.e. learn w by minimizing the logistic loss

$$L(w) = \frac{1}{n} \sum_{i=1}^{n} \log (1 + \exp(-y_i w^{\top} x_i))$$

using a) fixed data, and b) data being handed in via placeholders

- 3. try different learning rates to find one that convergences faster than $\eta=0.001$
- 4. (optional) create a version with analytically computed gradients, compare it speed

hand-in requirement

5. upload your code to 2a),2b) with a reasonable η to the git server