

01. Intro

What is

- 1. Supervised Learning - Classification/Regression
- 2. Unsupervised - Kmeans, PCA
- 3. Reinforcement - Giving rewards and punishment

Linear regression

- Data - tuples of points $\{(x_n, t_n)\}_{0 \rightarrow N}$
- Model - $y = w_0 + xw_1$
- Loss - Mean square error $\frac{1}{2} \sum_{n=1}^N (y_n - t_n)^2$