Regularizing your neural network
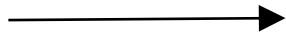
Other regularization methods

deeplearning.ai

Data augmentation

Symmetry

Rotation
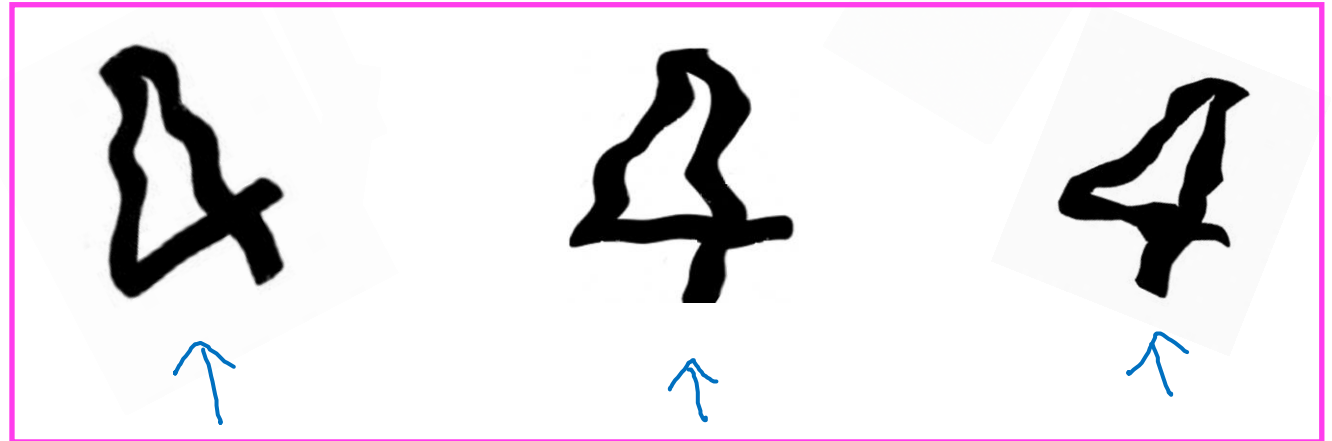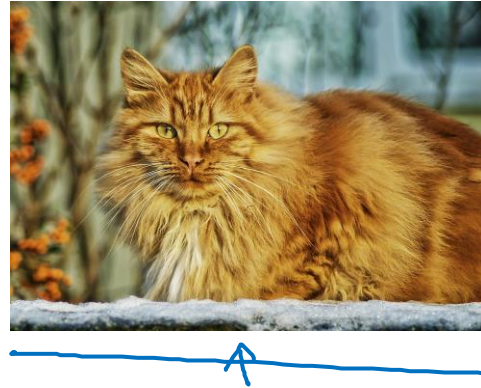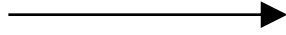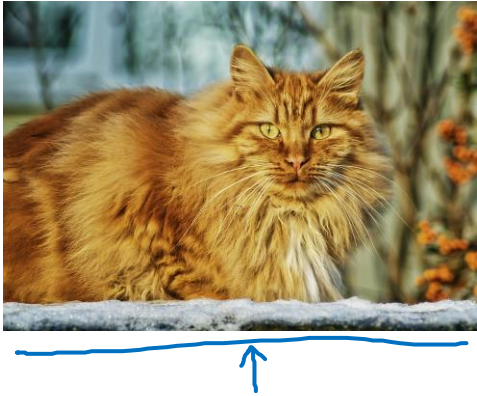
Early stopping

Orthogonalization.

- → — Optimize cost function J
  - — Gradient, ...
- → — Not overfit.
  - — Regularization, ...

l_2

$J(w, b)$

dev set error

traing error or J

iterations

$w \approx 0$

mid-size $\|w\|_F^2$

large W