Introduction to
ML strategy

Orthogonalization

deeplearning.ai

TV tuning example

Car

Orthogonalization

$0.1 \times$

$+ 0.3 \times$

$- 1.7 \times$

$+ 0.8 \times$

$+ \dots$
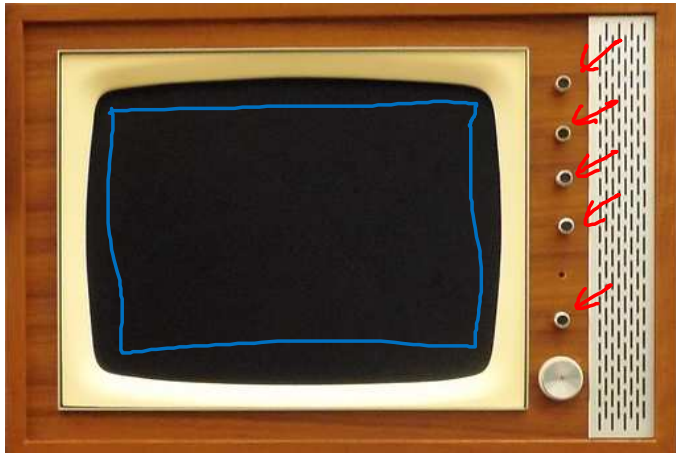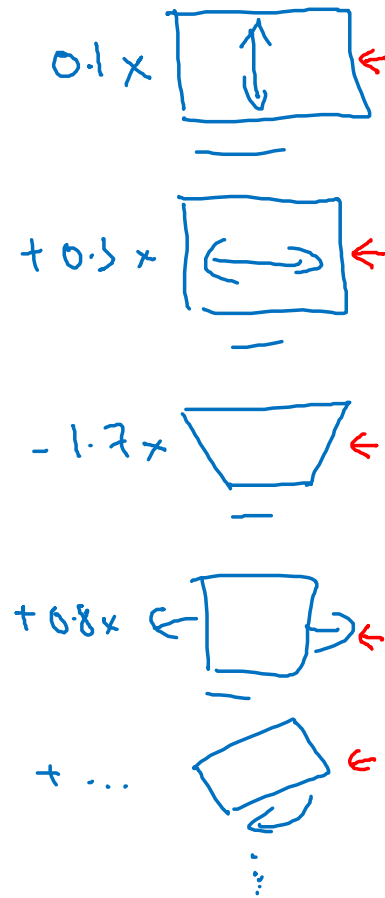
$\Rightarrow$ Steering

$\Rightarrow$ { Accelerator
Braking

$\Rightarrow$ $0.3 \times$ angle $-$ 0.8 speed

$\Rightarrow$ $2 \times$ angle $+$ 0.9 speed.

speed

angle

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Chain of assumptions in ML

Fit training set well on cost function   ($\approx$ human-level performance)

width

bigger network
Adam
...

early stopping

Fit dev set well on cost function

height

Regularization
Bigger traing set

Fit test set well on cost function

Bigger dev set

Performs well in real world
(Happy cat pic app users.)

Chage dev set or cost function

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