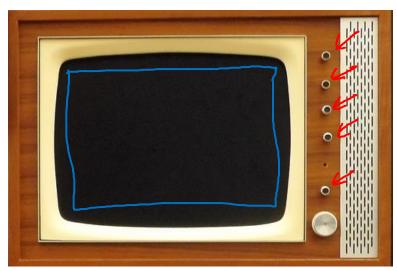


## Introduction to ML strategy

## Orthogonalization

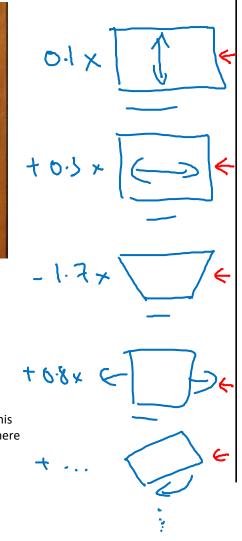
One of things I've noticed is about the most effective machine learning people is they 're very clear-eyed about what to tune in order to achieve one effect. This is a process we call orthogonalization.

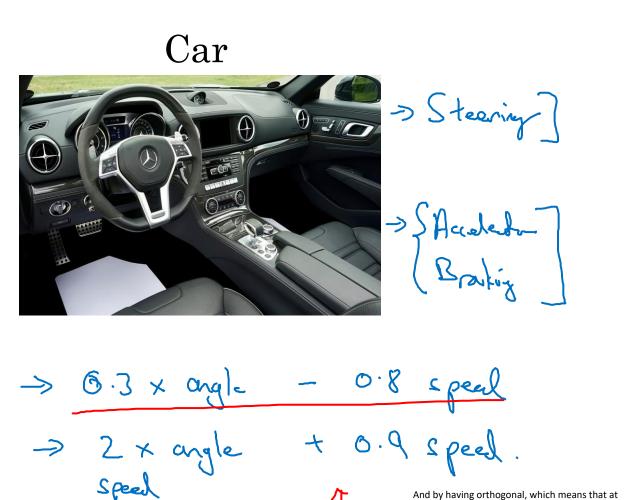
## TV tuning example



Orthogonlization

So in this context, orthogonalization refers to that the TV designers had designed the knobs so that each knob kind of does only one thing. And this makes it much easier to tune the TV so that the picture gets centered where you want it to be.





90 degrees to each other. By having orthogonal

control, the ideally aligned with the things you actually want to control, it makes it much easier

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to tune the knobs you have to tune.

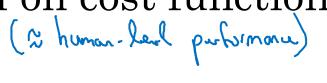
## Chain of assumptions in ML

> Fit training set well on cost function & bigger ruthork

(2 human led performance)

Fit dev set well on cost function & Regularization

Regularization









> Performs well in real world

(Hoppy at pic off was.)



Charge des set or

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