

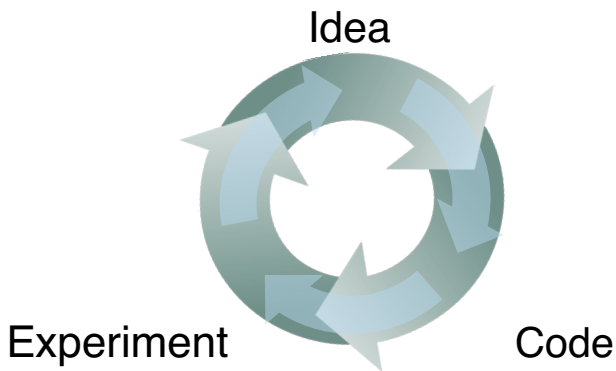


deeplearning.ai

Setting up
your goal

Single number
evaluation metric

Using a single number evaluation metric



of examples recognized as cats,
What % actually are cats?

what % of actual cats
are correctly selected?

Classifier	Precision	Recall
A	95%	90%
B	98%	85%

F_1 score = "Average" of P and R.
 $\left(\frac{2}{\frac{1}{P} + \frac{1}{R}}\right)$, "Harmonic mean"

Dev sets + Single real number evaluation metric
Speed up iterating

Another example

Algorithm	US	China	India	Other	Average
A	3%	7%	5%	9%	6%
B	5%	6%	5%	10%	6.5%
C	2%	3%	4%	5%	3.5%
D	5%	8%	7%	2%	5.25%
E	4%	5%	2%	4%	3.75%