



deeplearning.ai

Setting up
your goal

Train/dev/test
distributions

Cat classification dev/test sets

development set, hold out cross validation set

Regions:

- US
- UK
- Other Europe
- South America
- India
- China
- Other Asia
- Australia

Dev

Your dev and test set come from different distributions

Test

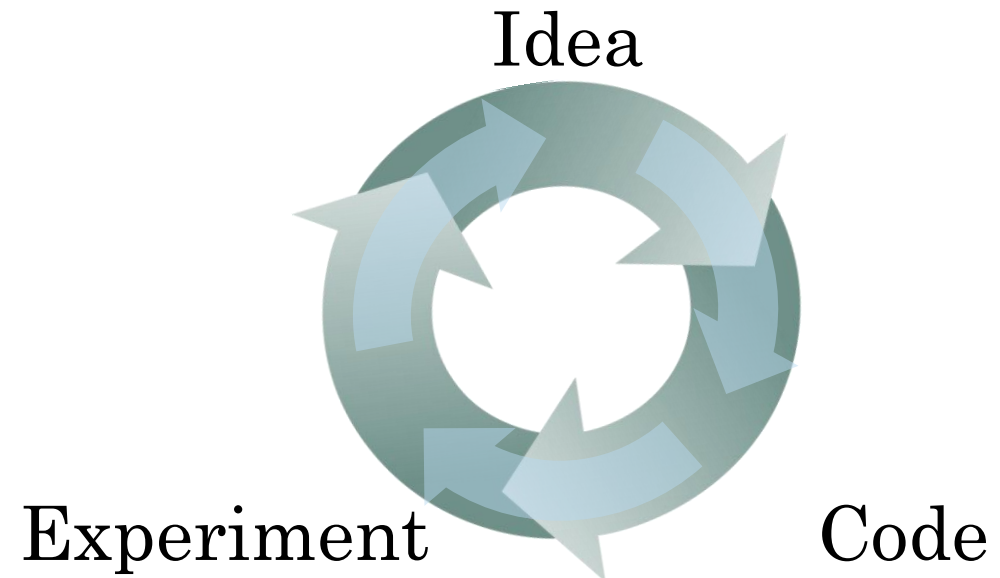
→ Randomly shuffle into dev/test

So that, both the dev and test sets have data from all eight regions and the dev and test sets really come from the same distribution, which is the distribution of all your data mixed together.



dev set
+
metric

Single real number evaluation metric



True story (details changed)

[Optimizing on dev set on loan approvals for
medium income zip codes

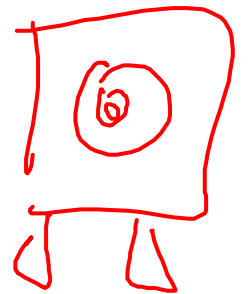


$x \rightarrow y$ (repay loan?)



[Tested on low income zip codes

~ 3 month



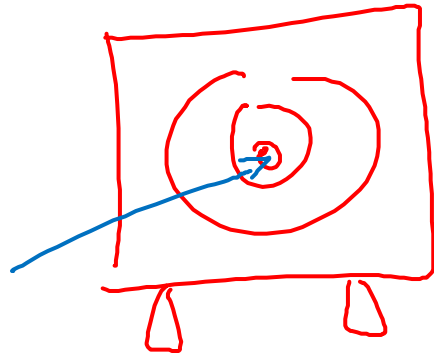
Guideline

Choose a dev set and test set to reflect data you expect to get in the future and consider important to do well on.

Same distribution



training



dev
metric

test

Setting up the dev set, as well as the evaluation metric, is really defining what target you want to aim at. And hopefully, by setting the dev set and the training set to the same distribution, you're really aiming at whatever target you hope your machine learning team will hit. The way you choose your training set, will affect how well you can actually hit that target.