



**deeplearning.ai**

# Setting up your

# ML application

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# Train/dev/test sets

# Applied ML is a highly iterative process

## # layers

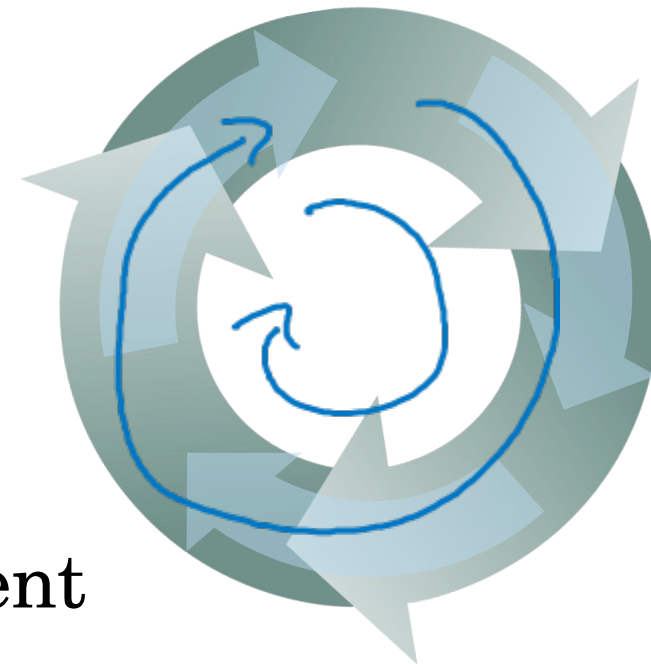
## # hidden units

# learning rates

## activation functions

• • •

# Idea

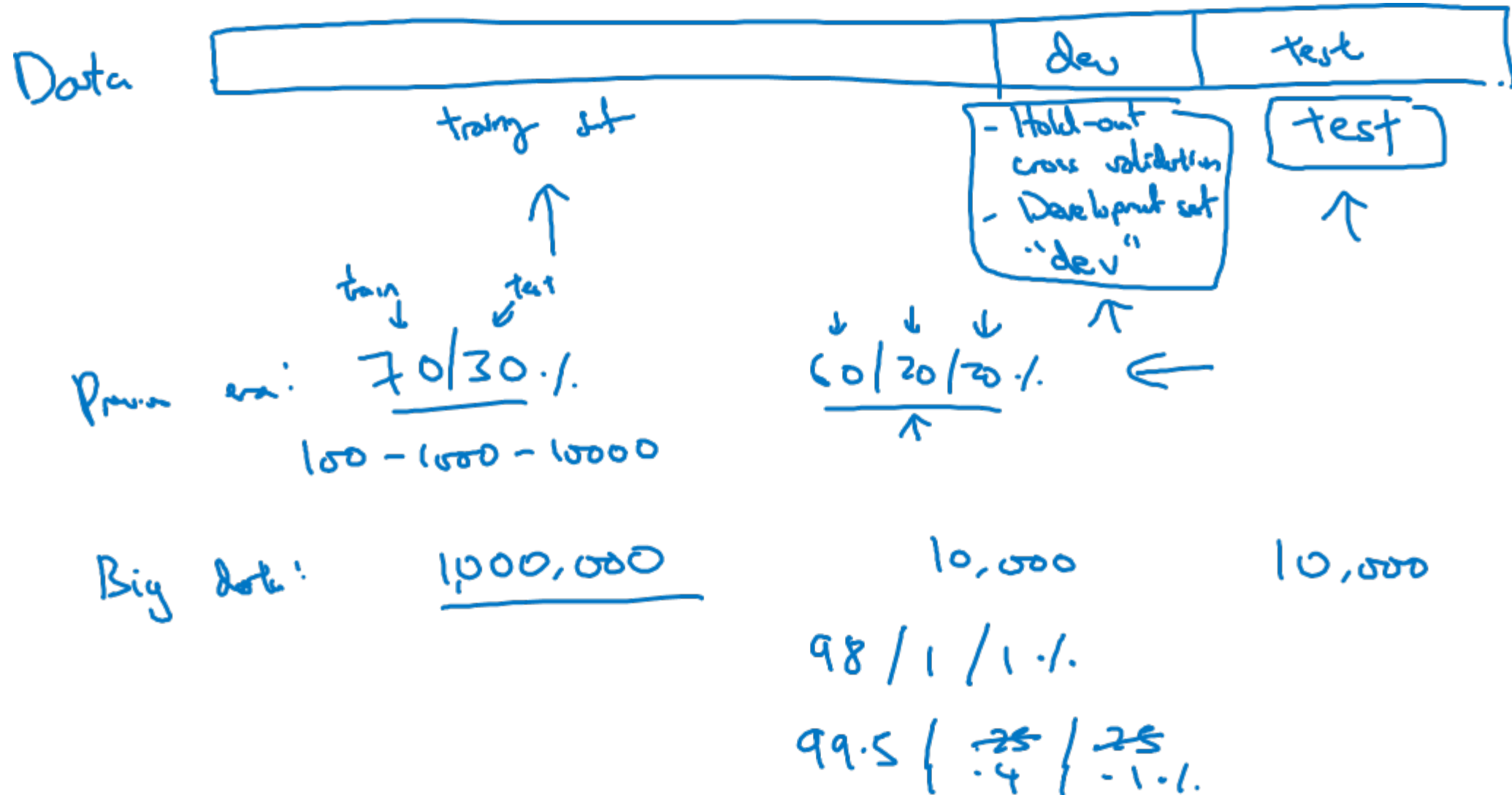


# Experiment

# Code

NLP, Vision, Speech, Structured Data  
└──────────┘  
          └─┬─┘      |      └─┬─┘      └─┬─┘  
          Ads       Search     Security    Logistic ...  
                └──────────┘                   └──────────┘

# Train/dev/test sets



# Mismatched train/test distribution

Certs

↙  
Training set:

Cat pictures from  
webpages }

↓ ↓  
Dev/test sets:

Cat pictures from  
users using your app }

→ Make sure dev and test come from same distribution.

↓      ↓  
train / dev      "test"

train / test  
↓      ↖  
→ train / dev

Not having a test set might be okay. (Only dev set.)