



deeplearning.ai

Mismatched training  
and dev/test data

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Training and testing  
on different  
distributions

# Cat app example

Data from webpages



care about this

Data from mobile app

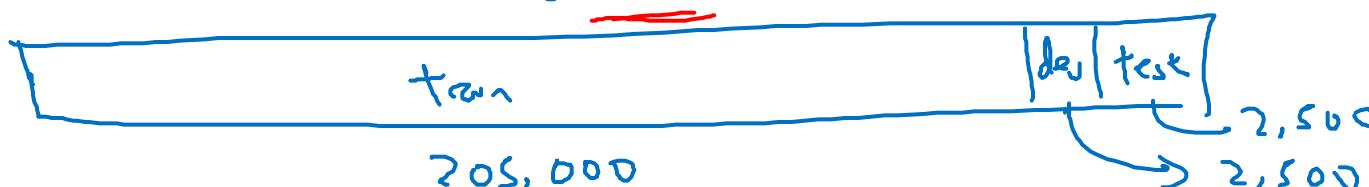


$\rightarrow \approx 200,000$

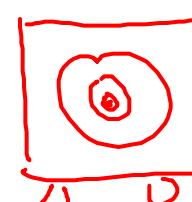
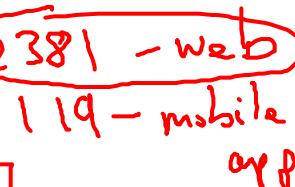
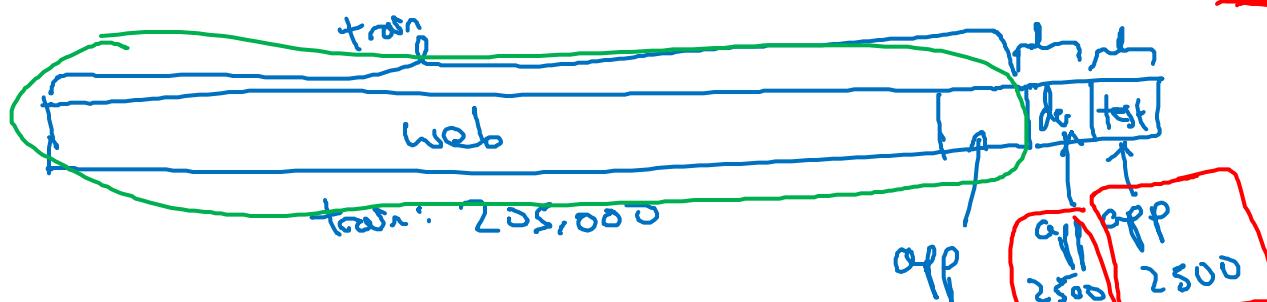
$210,000$   
shuffle

$\rightarrow \approx 10,000$

X Option 1:



Option 2:



# Speech recognition example

Speech activated rearview mirror



## Training

Purchased data  $\downarrow \downarrow$   
 $x, y$

Smart speaker control

Voice keyboard

...

500,000 utterances

## Dev/test

Speech activated  
rearview mirror

$\rightarrow 20,000$

