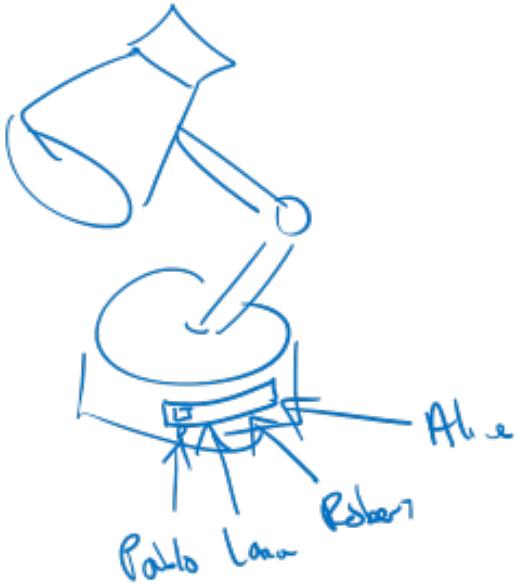
Lecture 6: ML Project Strategy

Menti Code: 12 07 68

"Alexa" - trigger word.



"Lana turn on"

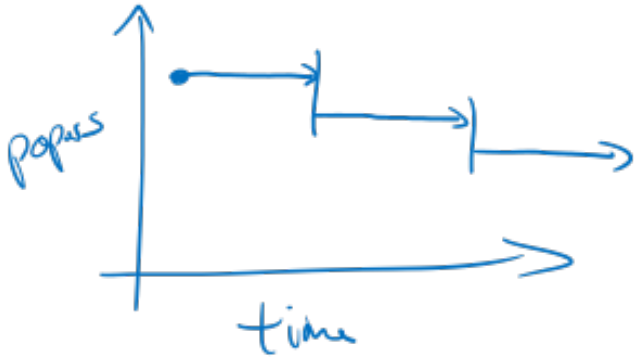
"Lana turn off"

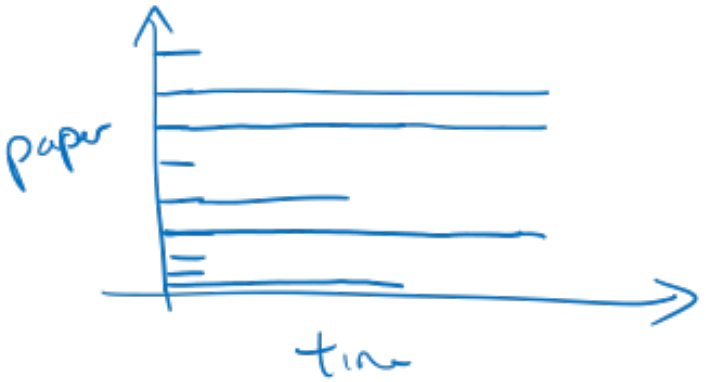
Robert turn on

"RTO"

Read online literature.

- Blog posts, research papers, code (github).





5 - 20 papers

Some papers don't make sense, or are wrong.

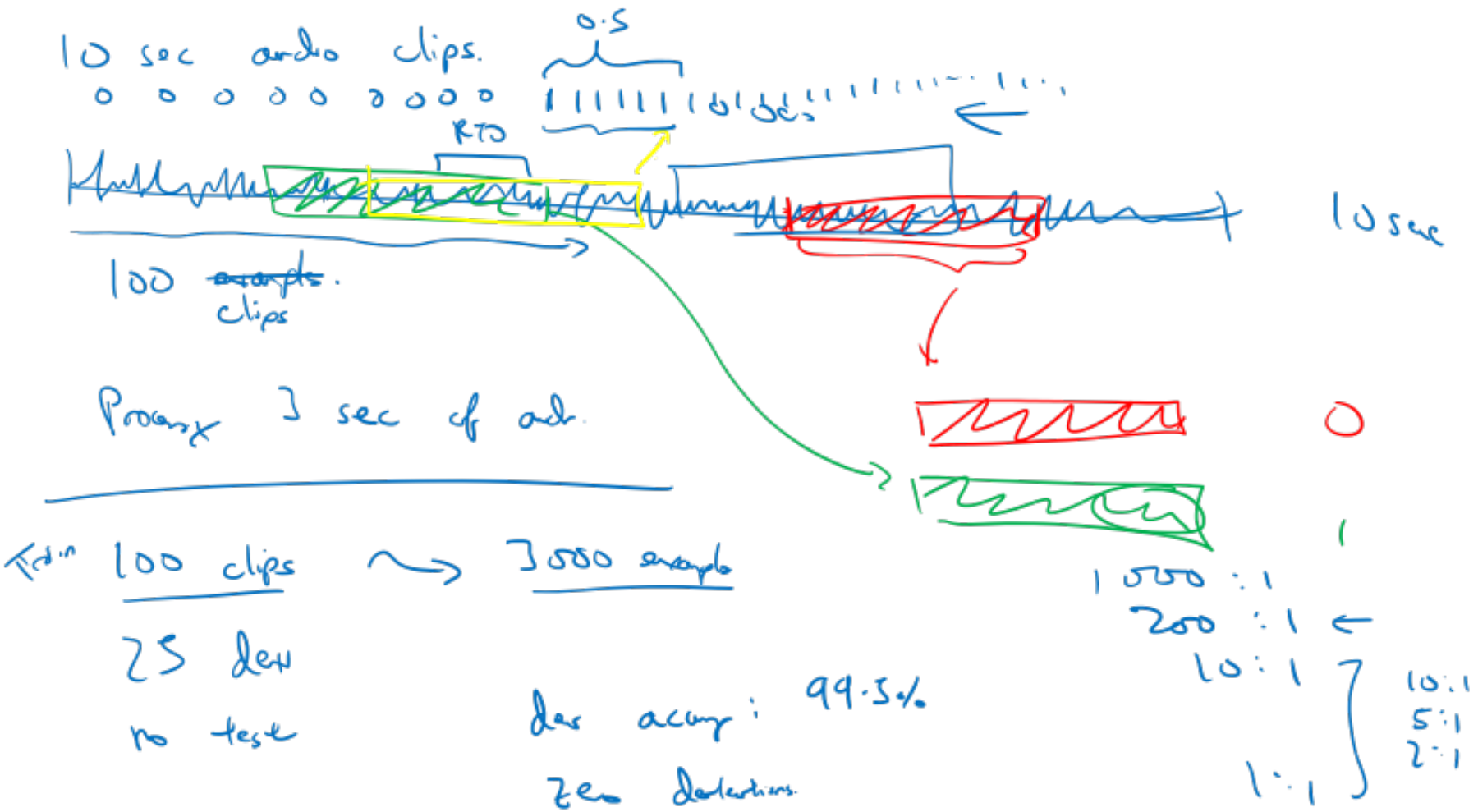
Talk to experts.

- Email authors.

Collect training + dev + test. sets

What would you put in the dev set?

How many example?


10 sec audio clips.
0.5
RTD
10 sec
100 clips.
Process 1 sec of adv.
Train 100 clips
3500 samples
25 devs
no test
dev accuracy: 99.5%
Zero detections
0
1
1500 : 1
200 : 1
10 : 1
1 : 1
10:1
5:1
2:1

98% accuracy on train. 50% on dev.

1) Collect background words.

2) Collect 1 sec clips of RTO, and of random words. "cardinal"

3) Synthesize 1 usec clips.

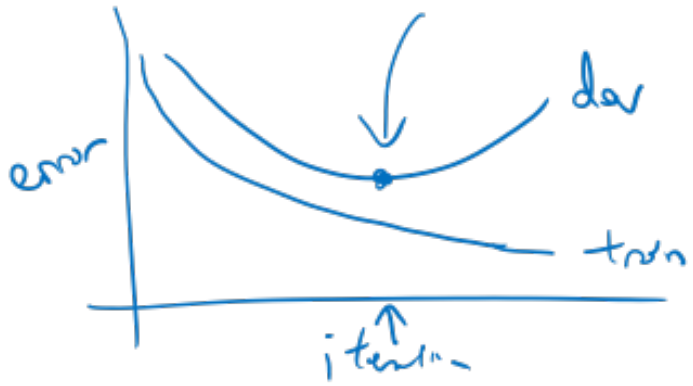
Do the quick thing first.

1) Run coral Standard.	100	5h ←
2) Download clips online.	50	5h
3) Turkers	1000	48h

Overfitting still

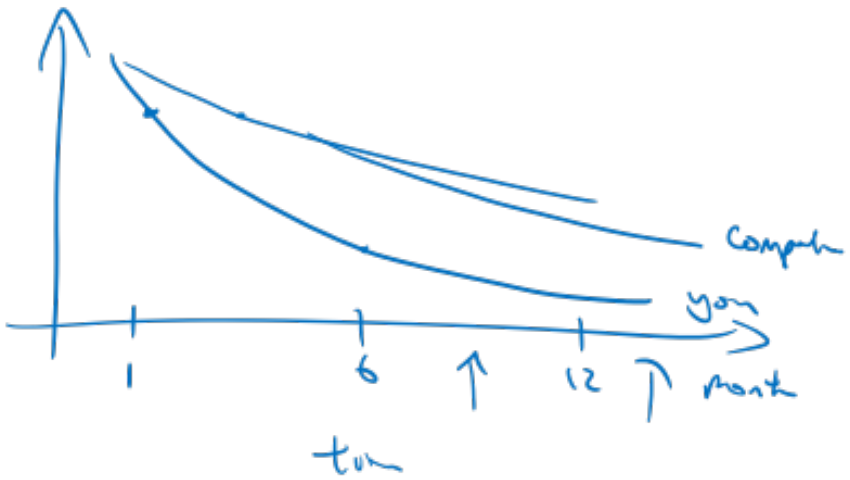
Model take ~8h to train.

early stopping



→ 12 months.

→ 1 month.

↓

1 hour