



deeplearning.ai

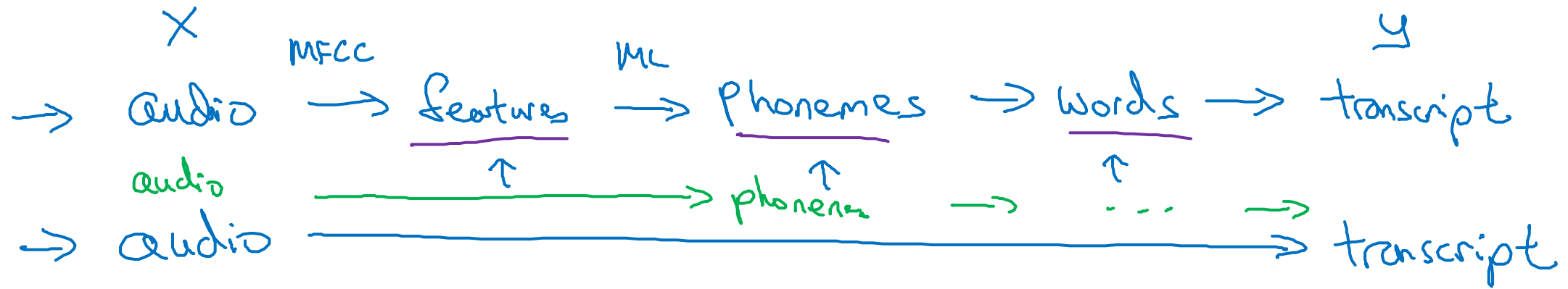
End-to-end deep learning

What is end-to-end deep learning

What is end-to-end learning?

Speech recognition example

"cat"



3,000h

↑

10,000h

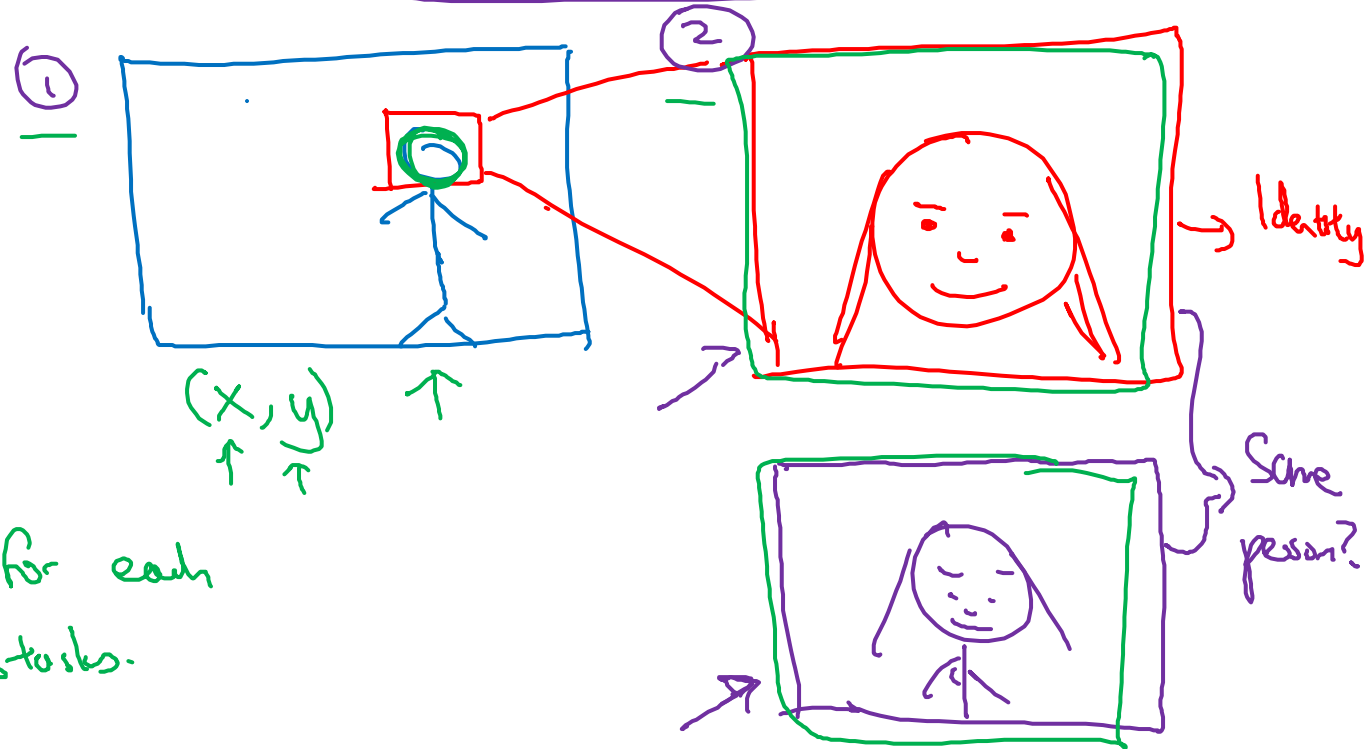
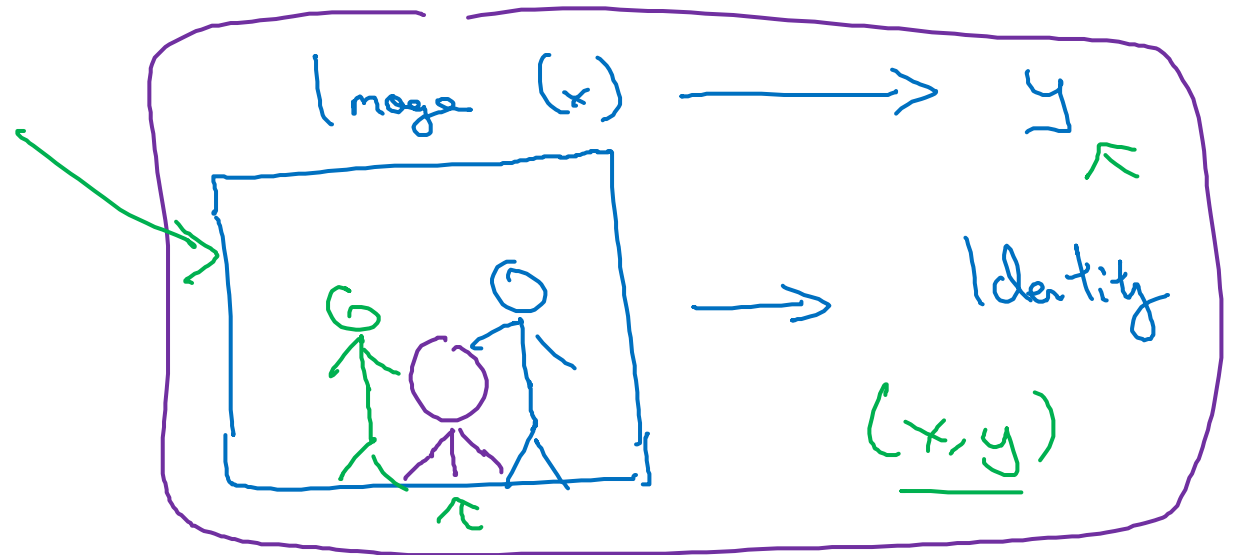
⋮

100,000h

Face recognition



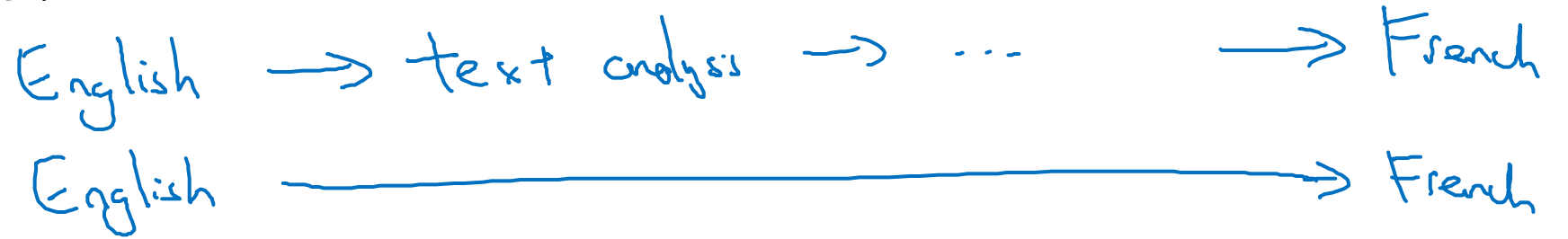
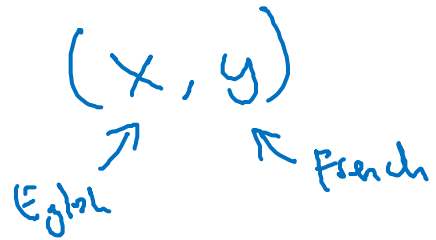
[Image courtesy of Baidu]



Have data for each of 2 sub-tasks.

More examples

Machine translation



Estimating child's age: Image $\xrightarrow{\textcircled{1}}$ bones $\xrightarrow{\textcircled{2}}$ age

