



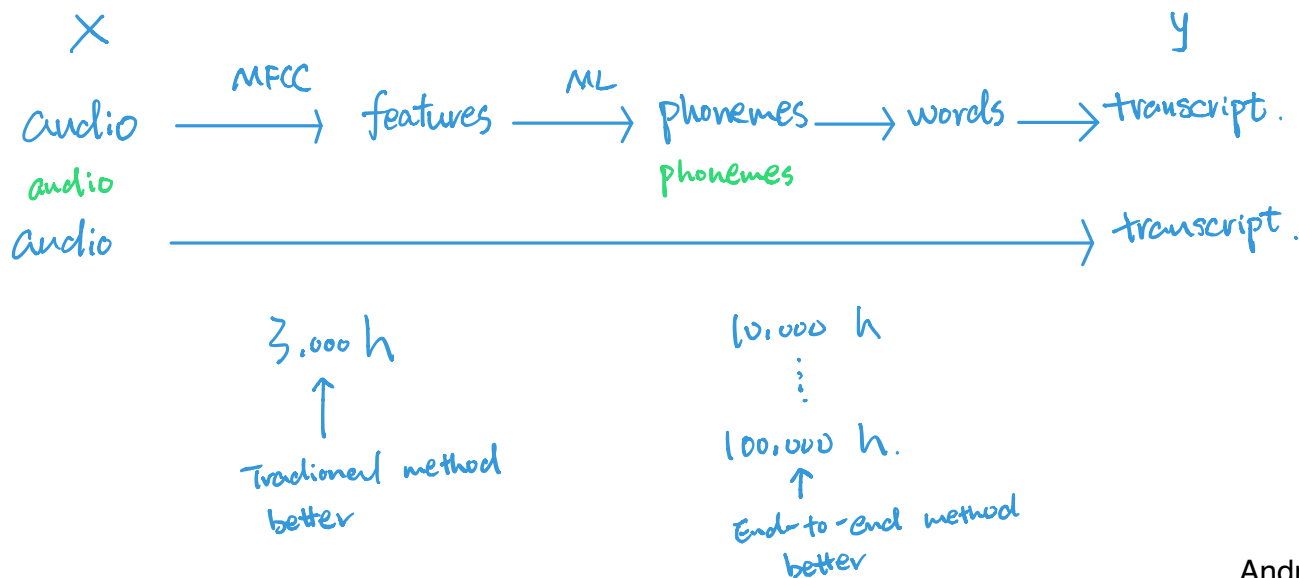
deeplearning.ai

End-to-end deep learning

What is end-to-end deep learning

What is end-to-end learning?

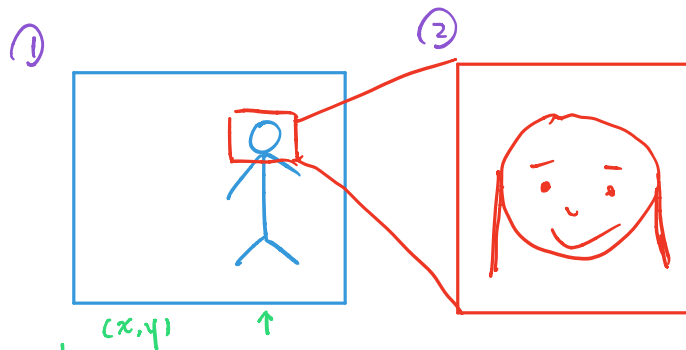
Speech recognition example



Face recognition



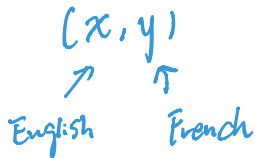
[Image courtesy of Baidu]



Have data for each
of 2 subtasks

More examples

Machine translation



English \longrightarrow text analysis \longrightarrow ... \longrightarrow French

English \longrightarrow French

Estimating child's age:



Images $\xrightarrow{①}$ bones $\xrightarrow{②}$ age Better

Images \longrightarrow age