

deeplearning.ai

End-to-end deep learning

What is end-to-end deep learning

One of the most exciting recent development in deep learning, has been the rise of end-to-end deep learning.

Briefly, there have been some data processing systems, or learning systems that require multiple stages of processing. And what end-to-end deep learning does, is it can take multiple stages and replace it usually with just a single neural network

What is end-to-end learning?

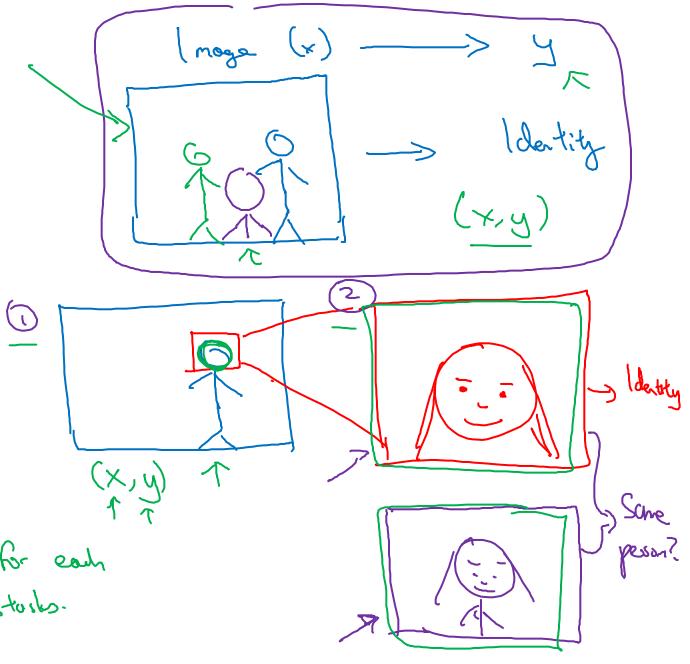
Speech recognition example

It turns out that one of the challenges of end-to-end deep learning is that you might need a lot of data before it works well.

Face recognition



[Image courtesy of Baidu]



Andrew Ng

More examples

Machine translation

Estimating child's age:



