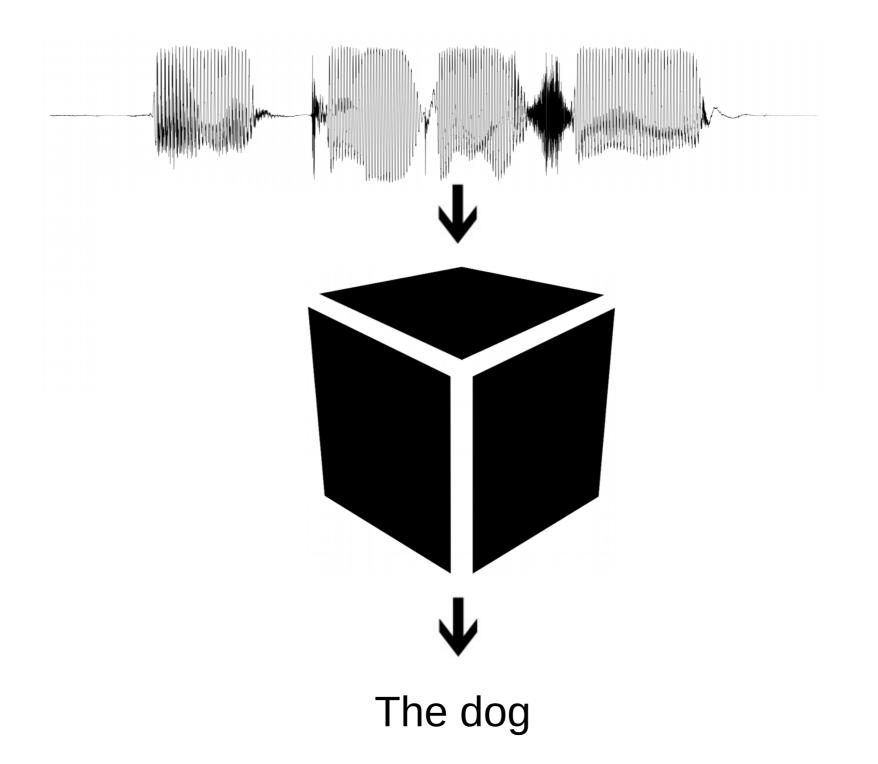
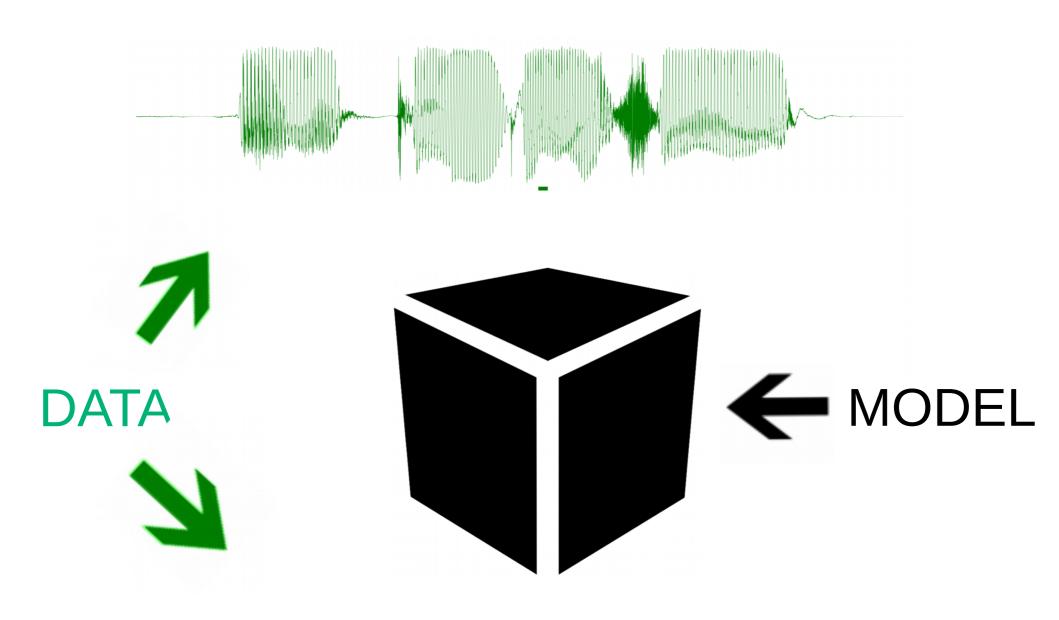
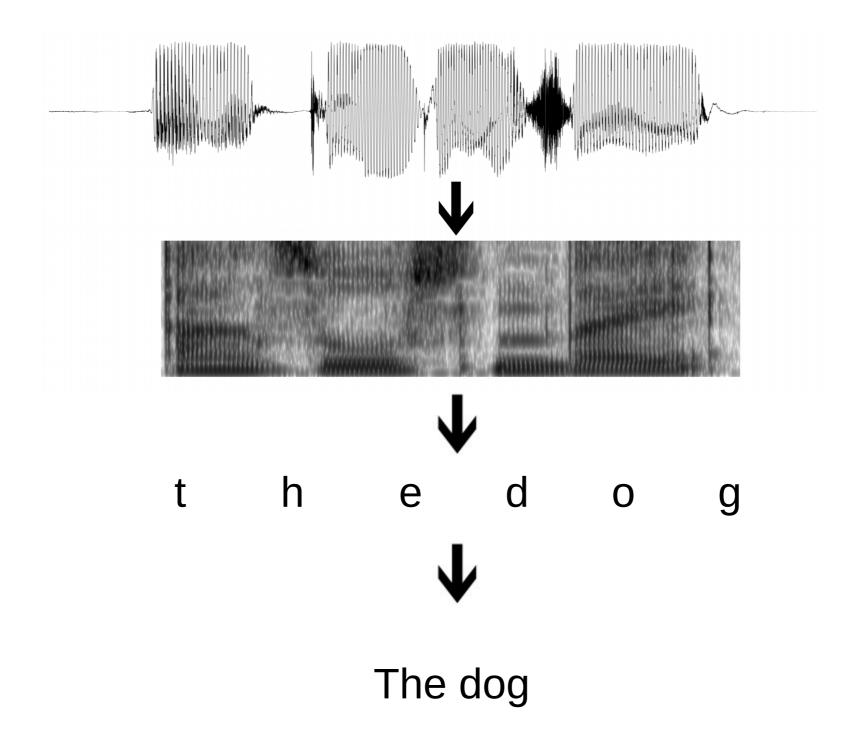
## Automatic Speech Recognition:

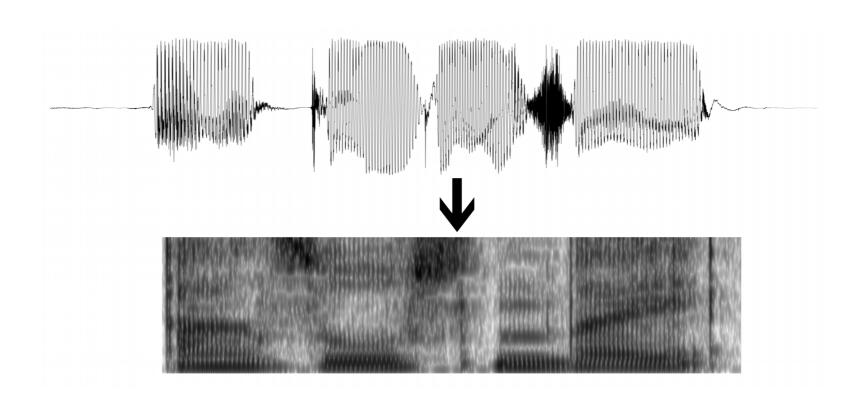
A gentle introduction to Mozilla's DeepSpeech

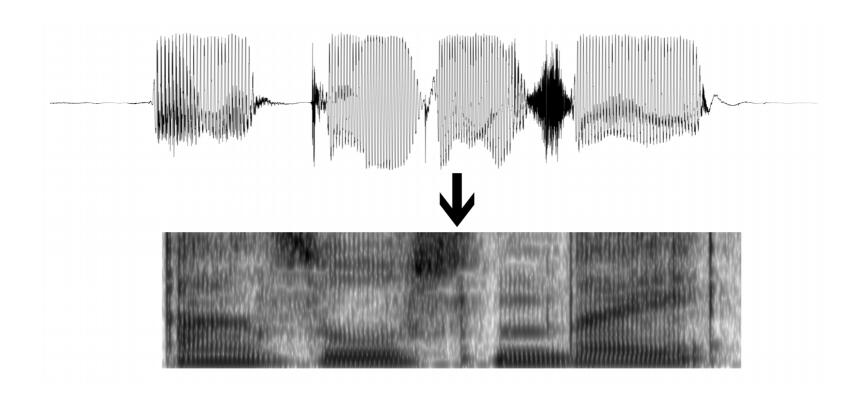
```
Josh Meyer + Fran Tyers
@_josh_meyer_ + @ezesanlasai
```



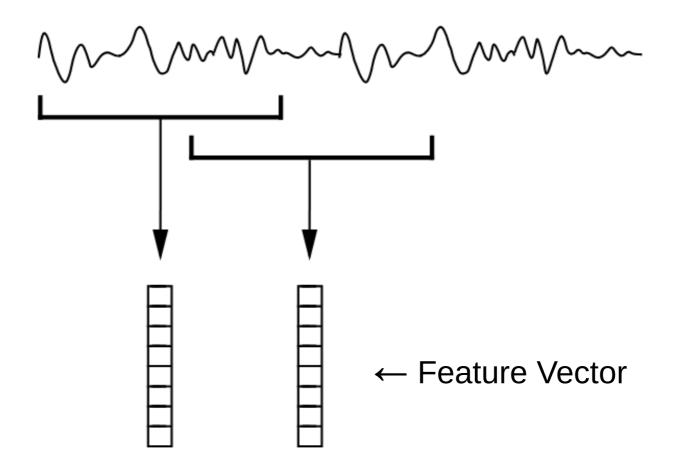


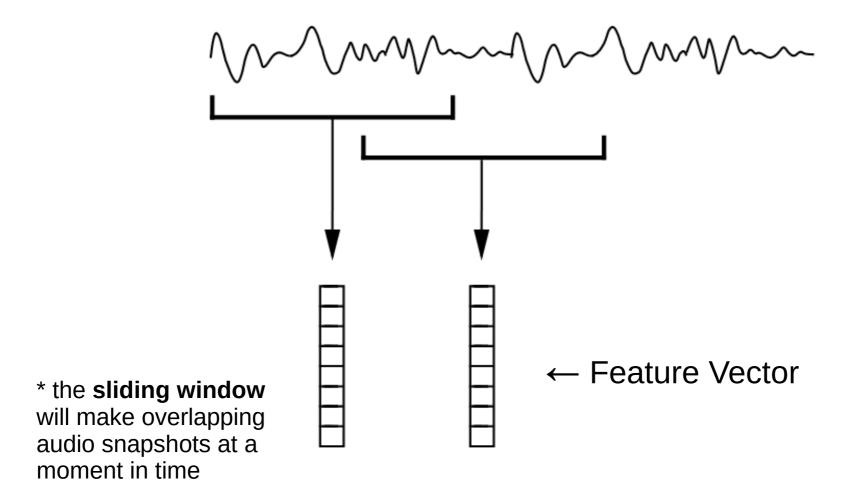


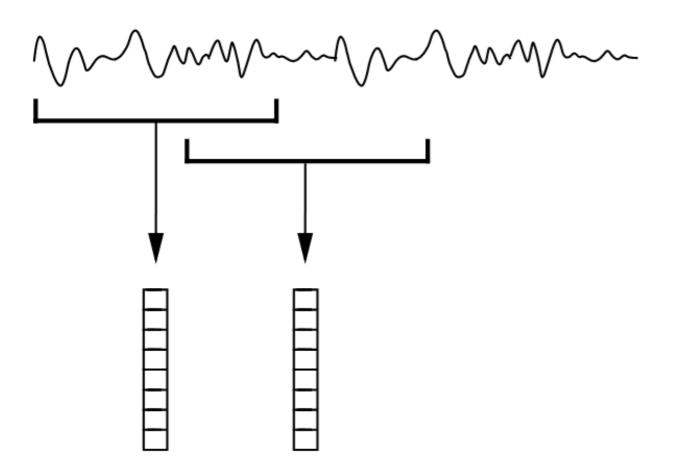


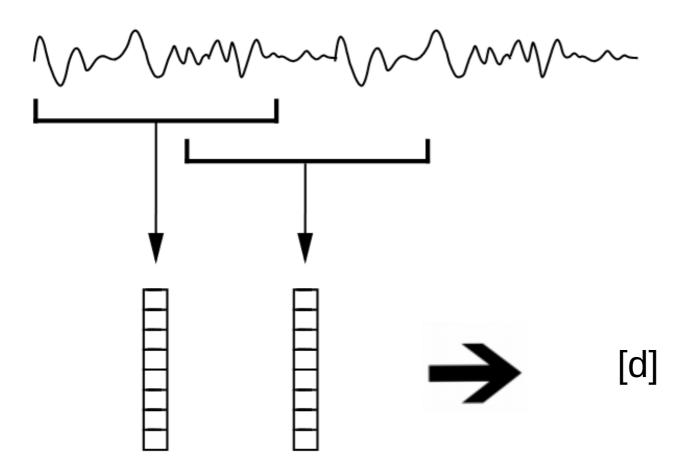


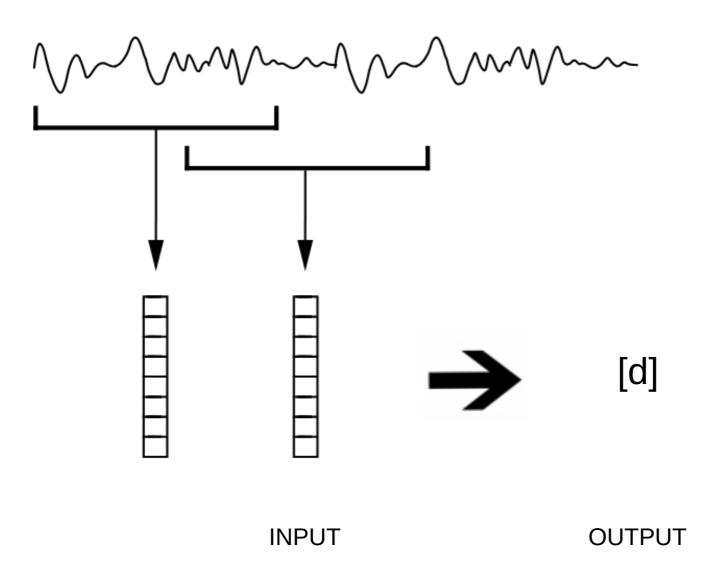
<sup>\*</sup> a **feature** is measurable characteristic of the data (e.g. loudness of a certain frequency )

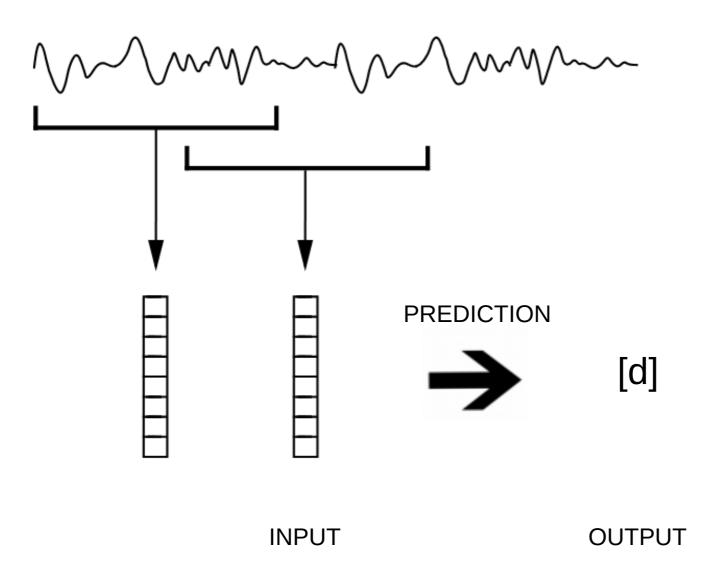




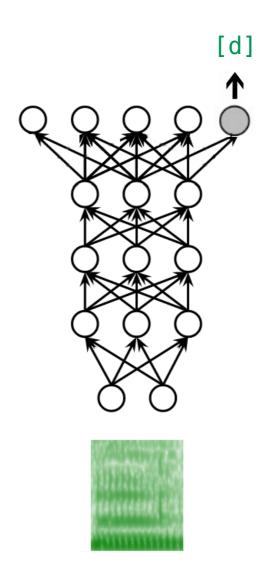




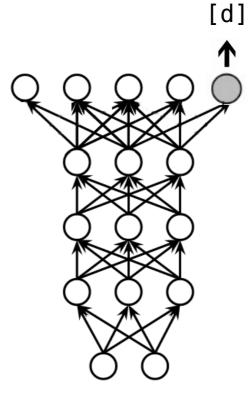




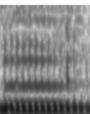
- Labeled Data
- Parameter Search



- Labeled Data
- Parameter Search

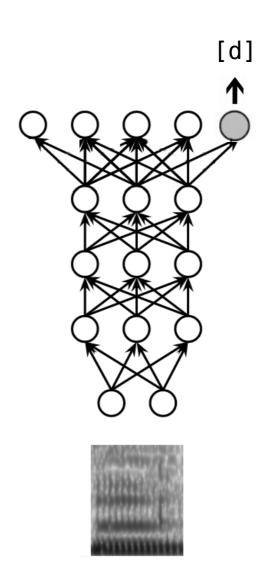


\* **parameters** are the connection weights

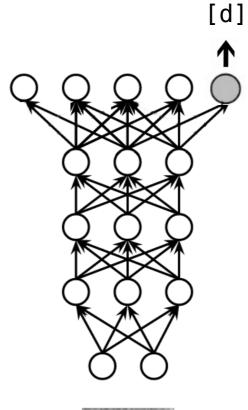


- Labeled Data
- Parameter **Search**

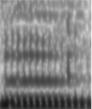
\* **search** is finding best connection weights for the given data



- Labeled Data
- **Iterative** Parameter Search

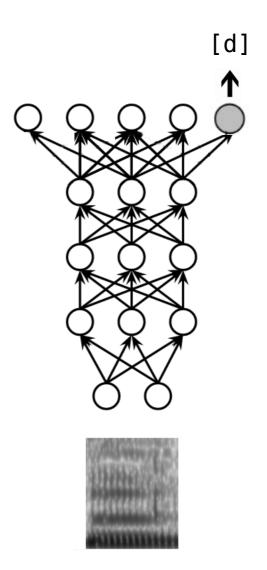


\* we will **iterate** over the data, updating parameters incrementally

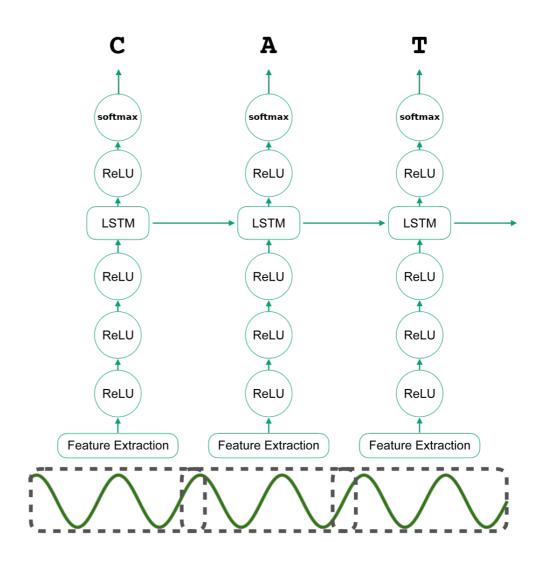


- Labeled Data
- Good Parameter Search

\* **good** parameters will maximize the probability of predicting letters found in unseen data



#### For more information\* on DeepSpeech architecture...



<sup>\*</sup> check out Reuben's blog post for more

# Thanks for your attention:)

Paxmat)))