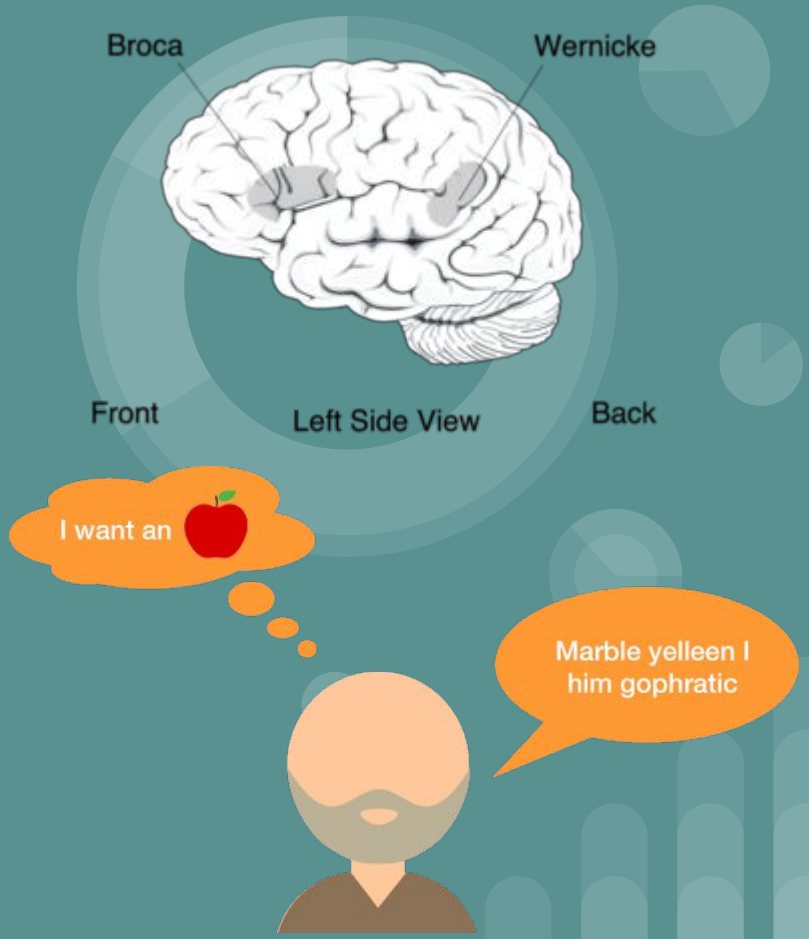
Data Science project: Aphasia

KB-74

Aphasia speech to text

Goal of the project: Create a speech to text software that can successful translate speech from aphasia patients.



Content

- What we did this week?
- Kaldi findings
- Kaldi toolkit
- Kaldi structure
- Future work

What we did this week?

- Split up in teams
- Manually aligned 10 sentences
- used in the pipeline were we talk about last week
- used our word boundary generator and used MFCC to extract the features.

Kaldi toolkit

- Very large toolkit (~10gb)
- Contains examples which run out of the box
- Requires quite a few files to setup an example
- ...And you constantly run into errors

Kaldi structure

- Requires multiple speakers to learn from
- It also identifies gender (male, female)
- A word list of spoken words is required (per speaker)
- The data (audio, spoken words etc.) is configured in Kaldi
- List of phones and special silence phones is also required

Future work

- Train our classifier with the 10 sentences and see what the results are
- Learn Kaldi a “new language”
- E-mail expert we spoke to about specific Kaldi things

Questions?

- Any Questions?