

# A Network Tour of Data Science

## Alzheimer's disease MRI - Summary

---

Christian ABBET, Maxime BONHENBLUST, Nicolas MASSEREY

January 11, 2017

**The goal of this project is to analyse brain MRI images in order to diagnose Alzheimer's disease.**

To do so, a dataset constituted of 186 806 brain MRI images from 3013 scans will be used. Each scan consists of 62 layers of the brain. They are already classified in 3 diagnosis:

- Healthy brain
- Mild cognitive impairment
- Alzheimer's disease

The dataset is divided between a training, validation and a test set of respectively 2019, 435 and 469 scans.

The dataset is retrieved from Kaggle website and was located on Kaggle Alzheimers MRI dataset, however due to unknown reasons, the dataset was removed from the website at the end of december but a complete description can be found on this github.

It aims to use the dataset to train a model that will be able to detect if a patient is affected by Alzheimer's disease or not.