

Abstract

This report documents modifications of Gary Read work who made an interactive visualisation of passwords based on characters used in passwords. It was meant to detect patterns in passwords which couldn't be seen on raw data. I choose to improve his software with the approach of semantic in passwords in different languages. I decided to work with English and French as it's the two languages I am the most experimented with. Gary Read's Software is well built it has been relatively easy to reach my objective to build heatmaps of semantics in French and English. And because JavaScript is limited concerning data processing a Python server was set up to handle data parsing, detection of languages and part of speech tagging. All requests to the said server are asynchronous making the user free to do parallel analysis while the server process database of passwords.