Coding Conventions

Due to this being a collaborative software project among new developers, it's important to make sure that the code you write is clean and usable by others. We predominantly use two languages in this project, C++ and Python. Below are a list of coding conventions for each respective language in the project. There may be exceptions to these rules, but otherwise they should be followed.

All Languages

Indentation

Spaces shall be used for indentation, no tabs.
Rational: mixing tabs a.nd spaces can cause major bugs in Python, and can create ugly formatted code in all other languages, so consistency is important. Although I prefer all tabs in Python, spaces makes more sense for other languages.

Line Length

The maximum length of a line shall be 80 characters
Rational: this results in code that is readable on most screens without wrapping lines

C++

Python