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# **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. A code linter will be created to ensure that code conforms to there standards.

## **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

#### **Trailing Spaces**

Trailing whitespace at the end of a line is not allowed. **Rational:** most text editors will actually automatically chop the trailing whitespace when you open a file. If people aren't paying attention, this can result in them committing a file where they made no functional changes other than to cut the whitespace, resulting in a confusing source control history. In addition, it's just a cleanliness thing.

### C++

running

astyle -A1 -N -n <file name>

on your C++ files should clean them up nicely.

### **Python**

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