

To: Matthias ^ 2

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Subject: Language Reflection

Our language of choice was Python3.6. Our text editor of choice was vim, and we developed by using the unittest library to write unit tests for our modules.

For writing design documents, we used a combination of abstract classes in Python with a formal specification that included signatures, definitions, and prose to describe the responsibilities and uses of our classes and their methods. This served our purposes but required some effort to maintain with the unit tests when changes were made.

For handling JSON, we used the json library to convert JSON Strings to internal data representations. We used the jsonschema library and wrote jsonschemas to validate the JSON Objects used in various parts of our project. We also wrote tests to validate our jsonschemas. This seemed to be an effective way of manipulating JSON for our project.

Our development environment was just vim and unit tests. We used the Python interpreter to do exploration of new libraries. For testing, we had a test script that supported running all tests and running individual tests in our tests folder that would collect and report individual test failures. This seemed like a reasonable way of developing; however, at some points we felt that a debugger would have been a helpful tool to have access to.