

To: Mattea Felleisen, Chief Software Architect
From: Kaylie DeHart, Software Engineer
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Subject: Programming Language Choice for Super-Hot Project

With regard to the choice of programming language and associated development environment for the upcoming project, the development team has decided on the Python language, to be developed in Sublime Text. After analysis, it was determined that Python best met the project's requirements.

Several programming languages were researched and evaluated in making this decision, most notably C, Java, and of course Python. While all three languages support the features the project has specified, ultimately C was not chosen given the team's limited experience in the language and its general lack of readability, and Java wasn't selected because of the extra hassle of code portability in Eclipse and lack of access to other IDEs. Python is very easy to read and work with, is easy to implement in a modular, object-oriented style, and has extensive resources in terms of external libraries for ready-made support for TCP/IP sockets, JSON, XML, and S-Expression parsing, graphical user interface construction, and automatic unit testing. Additionally, installing external libraries and importing them into the code is incredibly simple and concise, making the code much easier to install than Java. The chosen development environment, Sublime Text, also has a large pool of available resources, including add-ons to automate testing for adhering to common style guidelines and checking for common typing errors, as well as convenient and customizable color-coding to make reading and writing code easier on developers.

The development team looks forward to your feedback on this decision.