MEMO

To: CS4500 Staff
From: Andrew Nedea & Jason Kemly
Subject: Assessment of the Python programming language
Date: September 24th, 2020

Over the course of the TAHBPL assignments, we have become closely-acquainted to the quirks and features of the Python programming language. Throughout our investigation, we found the language to be not only adequate for the job, but ensconced in such a vast ecosystem of libraries (both standard and third-party) that we could swiftly and elegantly complete the tasks without having to contend with low-level or otherwise poorly supported third-party programs. More specifically, the language features an array of native modules that made the tasks of parsing, rendering and transmitting data especially facile. Moreover, the intrinsic language features make it particularly easy to create data structures and perform data operations, which in turn would significantly reduce the time and effort spent implementing and refactoring, consequently allowing for more resources to be devoted to designing and enhancing.

The language also offers support across all major platforms and system architectures allowing for development and testing to take place on any platform with the guarantee that the program would behave identically (with a few exceptions of OS-specific stipulations that would be investigated and addressed beforehand). We have ascertained this flexibility through assignments B, C, D and E, where we employed libraries fulfilling different functions, each performing consistently across development and testing environments. All being considered, we hold Python to be a highly adequate language for any software job involving similar requirements to those met in the aforementioned assignments.