

Writing the FEMAP API through Python

This document is intended to introduce core concepts for writing FEMAP API scripts through Python. Part 1 outlines installation and setup. Part 2 covers Python basics. Part 3 goes into detail of Python-FEMAP specifics. Example problems are provided in Parts 2 and 3, with sample solutions given at the end of the document.

Versioning and Acknowledgements

This guide utilizes Python version 3.4, with PythonWin version 3.4.4 as the IDE, operating on a Windows 10 machine running FEMAP version 11.4.0. Steps outlined here are based on [this guide](#)¹ found on the Siemens FEMAP forum and personal user experience. Code was formatted using an [online resource](#)² to automate the process.

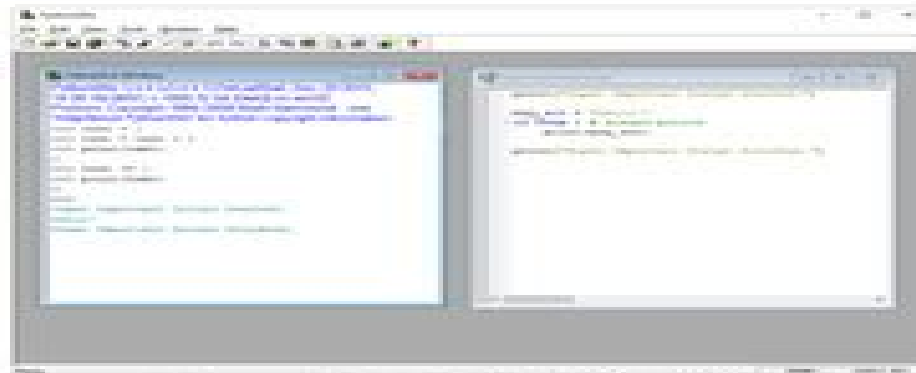
Part 1 – Installation and Setup

If you have a working installation of Python, skip to Part 2 – Python Basics. If you are already proficient with Python and have a working Python installation, skip to Part 3 – FEMAP API through Python.

Setting up Python

The first step is to download and install Python. Python.org is naturally the best option for doing so. While the most up-to-date version is recommended, this guide utilizes Python 3.4.0, and may contain minor syntactical differences to the most recent release.

Next, an interpreter is required to compile and run Python scripts. While many viable options exist, an interpreter with a live command window is tremendously useful for testing small amounts of code at a time. Using an IDE (Integrated Development Environment) is a good start for new users, as it encompasses both a text editor (where scripts are written) and an interpreter (where scripts are run) in a single installation. This guide utilizes PythonWin 3.4.4 as an IDE for convenience. Other examples of interpreters are Visual Basic and Notepad++, both of which can be configured to run Python scripts.



¹ <https://community.plm.automation.siemens.com/15/3D-Simulation-Knowledge-Base/Writing-the-FEMAP-API-in-Python/tp:q/178038>

² <http://www.pilcrow.com/online-highlight-word/>

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