

VI. The Language

Python is an open source, highly flexible, Version 3 ('3000', etc.) just came out in December 2008, but **we will use 2.6 in class**. Note that there are substantial differences between these versions! Code written for version 2.x won't necessarily work in version 3.x! You may wish to install 2.6 on your own computer. Some students do this on a notebook machine which they bring to class. Be aware that, although I can offer advice, I cannot formally provide support for non-department machines. If you go this route, life will be much easier if you work in a linux environment; other students have used the Ubuntu distribution for this course.

VII. The Project

The project will be a significant implementation of some geoprocessing problem in Python. It is a group project; two or perhaps three people per group. I will expect you to complete the work over the final two weeks of the semester, which limits the extent to a medium-scale project. The project should be problem oriented; that is, the motivation should not be simply to hack code, but to deal with a geographic issue. That said, the result of the project must be a program in Python that deals with the issue. Deliverables:

Preproposal (5% Project grade) Due Wednesday, April 1, 5pm.

Up to 1 typed page, including Title, Group, Research Problem, Objective, Data Source.

Proposal (20% Project grade) Due Wednesday, April 15, beginning of class.

Up to 2 typed pages. Include everything from the preproposal plus more detail and changes.

Presentation (35% Project grade) Given Thursday, May 7, 3-5 pm.

Polished presentation covering the project objectives, programming design, results, and challenges. The presentation will be followed by program demonstration.

Paper (40% Project grade) Due Wednesday, May 6, 5 pm.

5-9 page paper consists of all elements covered in the Proposal, along with modifications. Special focus should be on program design issues, as well as the results and implications. Figures and tables should be included if they are helpful. If your report includes ideas from other people or works, you need to cite them. Failure to indicate sources is plagiarism. If you are unsure, reference or talk to me about it. Cite any sources you employed for information or guidance

VIII. Weekly Outline

A weekly outline, including assignments, quiz dates, code for labs, and other useful stuff is available. It will change frequently. Keep on top of where we are and where we are going!