Programming for Scientists

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Introduction

For Whom? What? Why?

- For scientists who program.
- An intermediate programming class.
- To teach how to program better.

Goal

A 20% improvement in productivity.

Course Structure

Two Lectures a Week

1. Tuesday session: a lecture where basic concepts are presented.
2. Thursday session: a *closer to the bone* session, where we discuss particular technologies that let us implement the basic concepts.

Topics

Main Topics

- Code organisation.
- Software carpentry.
- Numerics.
- Software distribution.

Main Technologies

- Python programming language.
- numpy & scipy libraries.

F.A.Q.

Can I audit the class?

You are welcome to sit-in, audit, or otherwise do whatever you think benefits you the most.

I don't know any programming. Will your class be useful for me?

As long as you are prepared to work a bit a the beginning (including extra 2 lectures), this class will be a good introduction to programming.

More Information

Website

http://coupland.cbi.cmu.edu/pfs
(Contains a detailed syllabus)

Email

lpc@cmu.edu