Introduction

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Contents

- What do we do at this course?
- Administrative information
- Grading
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Programming languages

- Discover the C programming language

- Revise some of the trickier parts of the C language such as pointers, dynamic memory allocation

- Learn how to implement data structures (lists, stacks)

- Learn about code profiling and how to debug pointers

Administrative information

- 5 courses (10 hours)
- 10 laboratory classes (20 hours)

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Grading

- Programming project
- 1 – 10
- 5 is the passing grade
- 3 credits

What we work with?

- Linux (Ubuntu)
- gcc
- Python
- MS Visual Studio Code

- You can have Linux in a virtual machine, install it along side windows or only Linux.
- If you use a virtual machine, use Oracle VM Virtual Box.

- Any Ubuntu distribution has a C compiler already installed. You can do without MS Visual Studio Code.

Bibliography

Zed. A. Shaw. Learn C the hard way. http://c.learncodethehardway.org/book/

Brian Kernighan, Dennis Ritchie. The C programming language. Prentice Hall, 1988.

Al Sweigart. Automate the boring stuff with Python. Practical programming for total beginners. No starch press. Internet: https://automatetheboringstuff.com/#toc

Course presentations.