Development Crash Course Development Environment and git

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Overview

- sX Makers
- Crash course
- ► Tips, Tools, and Traps
- Variables, conditionals, loops, arrays?

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- Variables, conditionals, loops, arrays?
- You already know how to code*
- Syntax and algorithms

Where do I start?

Development Environment

- Unix-like (Linux or OSX)
- Why not Windows?
- Virtualbox
- Ubuntu
- Command line introduction:

http://vic.gedris.org/Manual-ShellIntro/1.2/ShellIntro.pdf

git and GitHub

git

- SCM and version control
- ► History: 2005
- kernel
- sudo apt-get install git

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GitHub

- Cloud repositories
- ► Startup, 2011
- restrictions

Vocabulary

- repository a place to store code
- commit changes to the code
- branch separate series of commits
- clone vs. fetch vs. pull
 - clone download and create a local repository
 - fetch download current branches to existing local repository
 - pull download the current remote branch and merge it with current local branch
- fork create a new repository based on existing
- http://git-scm.com/book/en/

Basic Usage

```
git clone https://github.com/<username>/<repository>.git
git checkout -b <brack-name>
<make changes>
git status
git add .
git commit
git merge <brack-name>
git push origin master
http://try.github.io
```