

Lecture 2

Programming for VR I

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Github

- ▶ You will learn things that you will immediately forget
- ▶ If you leave a trail, you don't have to memorize
- ▶ Github can be your super-memory
- ▶ The history of everything you've ever programmed

Source control

- ▶ Github hosts git repositories
- ▶ A repository: think of it as a filesystem with a history
- ▶ git is a source-control technology that was originally made by Linus Torvalds (who also wrote the Linux kernel)

Github as a lurker

- ▶ An almost magical cornucopia of things you can download
- ▶ Which things are “good to download”? What out for:
 - ▶ License
 - ▶ Language
 - ▶ Stars and forks
 - ▶ Last commit

Github as a contributor

- ▶ Exercise: let's sign up for Github!

Two workflows

- ▶ Clone a repo: make a local copy of a repo.
- ▶ Command line `git clone`
`https://github.com/patrickmineault/programming-course.g`
- ▶ Try it!
- ▶ Q: can't I just download a zip file instead? Yes!

Create a repo and put stuff in it

- ▶ Create a repo, add stuff to it, and share it with the world.
- ▶ Let's create a repo on Github called hello-world-python (live demo)
- ▶ Clone the repo
- ▶ Create a new file in the directory: helloworld.py
- ▶ Write our hello world example in there
- ▶ Commit it and push it

Key commands

- ▶ `git status`: What is the status of my repo?

```
$ git status
```

```
On branch master
```

```
Initial commit
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
helloworld.py
```

```
nothing added to commit but untracked files present (use "git add" to track)
```


Key commands

- ▶ `git add myfile.whatever`: Add a file to be committed. You need to add uncommitted files (new files and modified) before you can commit them.

```
git add helloworld.py "$ git status On branch master
Initial commit
```

```
Changes to be committed: (use "git rm --cached ..." to unstage)
```

```
new file:   helloworld.py
```

Key commands

```
- `git commit -m "My message"`: commit *locally*
```

```
$ git commit -m "Life is fun" [master (root-commit) 94583f3] Life is
fun 1 file changed, 1 insertion(+) create mode 100644 helloworld.py
```

- The message should tell, what this commit is, e.g. "added"
- Now you have a commit.

Exercise

- ▶ Create a repo for the class.