Office Hours ++ (Git II)



Examples?

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Programming Languages/Frameworks

- Rust
- Swift
- React Native

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Package Managers

• Homebrew

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• Tensorflow

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Websites

• C4CS

Think Bigger...

Think Bigger... Linux

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Software with source code made available to public

• Generally with a specific license

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Commonly associated with community driven development (enter Git)

- Git allows for easy collaboration
- Version control and release handling

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Allows customization of applications for wider usage

Community Driven Development helps everyone using a piece of software

- Build something that's useful to others
- Suggest ideas for useful features

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Personal Benefits

- Learn new skills
- Community recognition
- (Looks great on your resume!)

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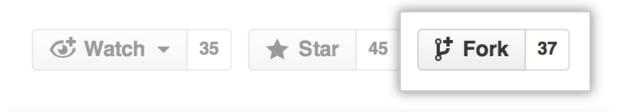
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lt's Fun!

There's a project for pretty much everything

Enough talking. Let's do something cool.

1. Fork the repository you want to contribute to



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2. Clone your forked repository

Use either HTTPS or SSH remote URL

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- 1. Fork the repository you want to contribute to
- 2. Clone your forked repository
- 3. Create an issue/take ownership of an existing issue

Do this in the parent repository, not your fork



- 1. Fork the repository you want to contribute to
- 2. Clone your forked repository
- 3. Create an issue/take ownership of an existing issue
- 4. Create a branch locally and setup environment

In the directory of your local repository:

\$ git checkout -b <feature-name>

Then follow setup instructions in the **README.md**

- 1. Fork the repository you want to contribute to
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- 4. Create a branch locally and setup environment
- 5. Do cool stuff. Make some commits.

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- 6. Push your changes to your remote

```
$ git status
$ git add <files>
$ git commit -m "<Descriptive commit message>"
$ git push --set-upstream origin <feature-name>
```

- 1. Fork the repository you want to contribute to
- 2. Clone your forked repository
- 3. Create an issue/take ownership of an existing issue
- 4. Create a branch locally and setup environment
- 5. Do cool stuff. Make some commits.
- 6. Push your changes to your remote
- 7. Create a Pull Request from your fork

(We'll walk through this one)

Congratulations!

You've just joined the open source community



I'm lost, what just happened?

What We Did:

- Built a new feature on a software shipped to hundreds of people
- Worked collaboratively on an international project
- (Hopefully) Learned something new

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Stop Speaking Greek to me

Don't worry, most Git users don't really know what's going on when they're using Git. If you're looking to brush up, the following resources may be helpful:

- Understanding the Github Flow
- Learn Enough Git to Be Dangerous