

Intro to Git and GitHub

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Pre-eval! (5 min)

<http://bit.ly/1gTSkr7>

[View on GitHub](#) 

Pyladiespdx.github.com

Website for Pyladies PDX hosted on Github

Welcome to PyLadies PDX on Github

This automatic page generator is the easiest way to create beautiful pages for all of your projects. Author your page content here using GitHub Flavored Markdown, select a template crafted by a designer, and publish. After your page is generated, you can check out the new branch:

```
$ cd your_repo_root/repo_name  
$ git fetch origin  
$ git checkout gh-pages
```

If you're using the GitHub for Mac, simply sync your repository and you'll see the new branch.

Designer Templates



PyLadies PDX

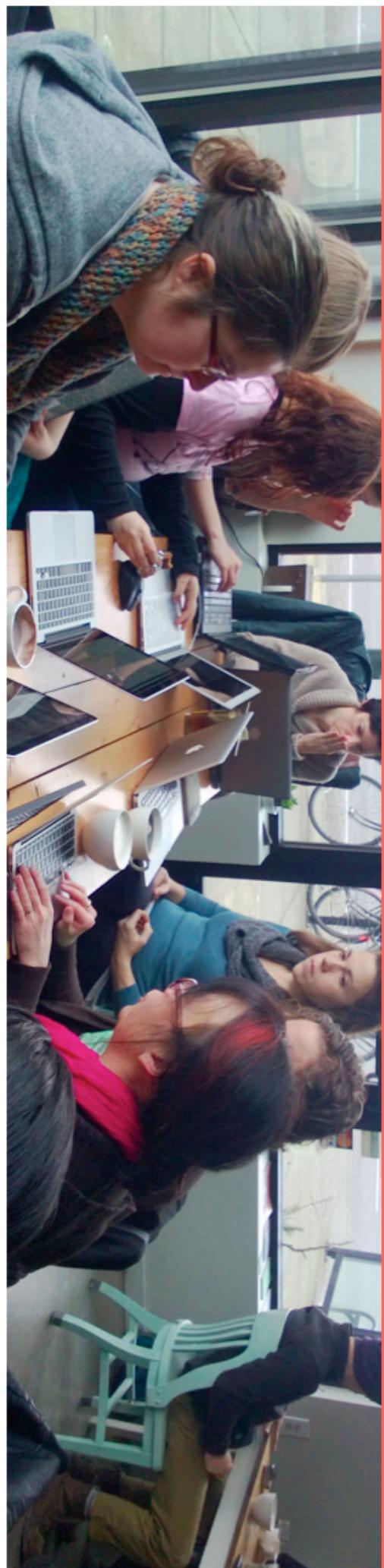
Workshops

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About

Members



Welcome to PyLadies PDX!

PyLadies PDX is a professional and social group for women who are Python programmers at every experience level. We hold workshops and other events for primarily woman-identified developers every 1st and 3rd Wednesday at 6pm, and we welcome all to get together and hack every Saturday at 11am. We are part of the larger PyLadies organization, and as such are a nonprofit under the umbrella of the Python Software Foundation.

Irc

May 17, 2013

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How we'll work together today

Pairing
Drawing
Flashcards
Hacking

Revision Control System: What is it?

(aka Version Control System)

“A process for managing changes.”

Why use Revision Control?

Why use Revision Control?

Backups

Synchronize with Others

Keep file history

Branch/Merge

Revision Control System (RCS)

includes:

Files

Directories

People

“the changes”

What is Git?

A distributed revision control system that emphasizes fast branching and easy merging.

Central vs. Distributed



Central vs. Distributed



Some vocabulary!

Repository or repo

A **directory** containing files and directories, a historical **record** of changes and the **changes** themselves.

server

A central location for storing a

repo.

client

A user of a server.

In a distributed setting, we might say **peer** instead.

Working copy

A copy of the repo that is used by a client to make changes.

Patch or Patch Set

Changes that can be applied to
a repo.

Distributed Version Control System (DVCS)

RCS that allows clients to make changes and exchange patch sets without consulting a server.

Using Git

Flashcards!

What is Git?

checkout
clone
show
branch
add
commit

pull
push
init (*create*)
diff
status (*verify*)

What is Git?

origin
master
-b
--amend
-m
--rebase

Git workflows

Take out 9 single-command cards.

One person reads the story while the other finds git commands and puts them in order.

Switch roles!

Pull request story

Write a Pull Request story and add as a comment: bit.ly/ObV1y0

Use 7 git command words and the name of your flashcard partner.

Pictures!

Draw a picture that illustrates what each git command is doing.

git init

git clone

git diff

git branch

git checkout

git status

git pull

git push

git add

git commit

git reset

git merge