

GitHub in the Classroom

PAULA WAITE

IT INSTRUCTOR - MADISON COLLEGE



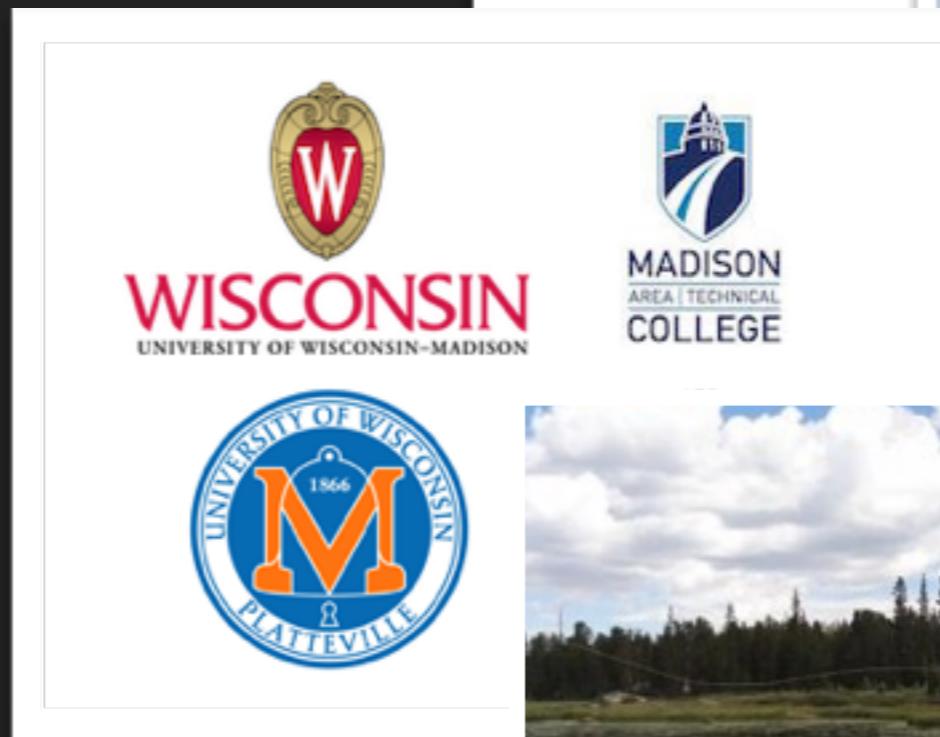
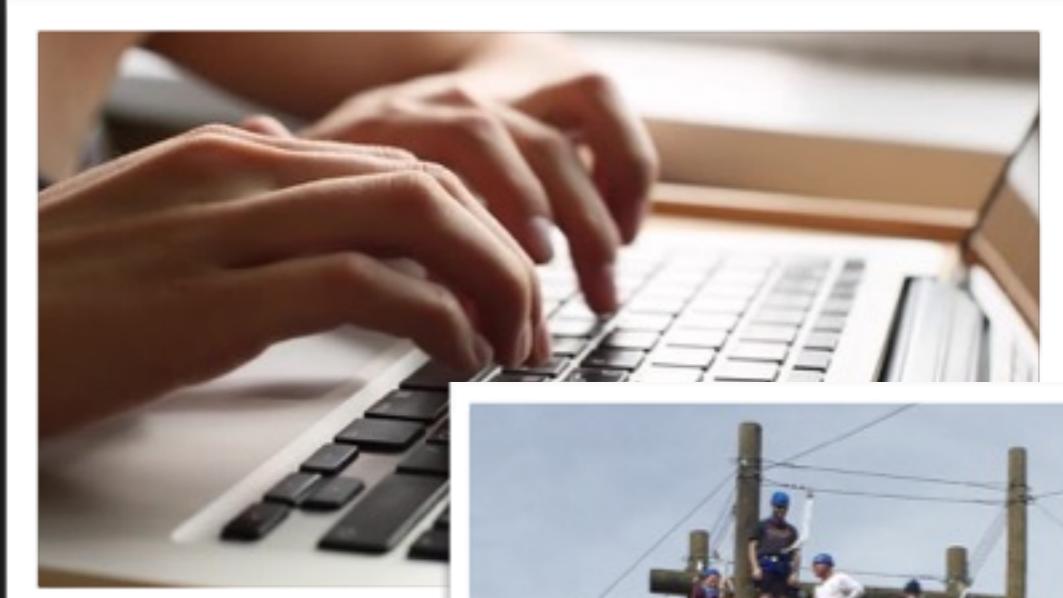
WHO AM I?

Software Developer

Programming Instructor

Student

Outdoor Enthusiast



GITHUB - AGENDA

Terminology

History

Uses: Collaboration, Content Hosting, Classroom

Tips and Tricks

Resources

References

Versioning

Repository

Git

GitHub

GitHub Organization

GitHub Classroom

TERMINOLOGY

VERSIONING



VERSIONING



VERSIONING

> GitHub-In-The-Classroom

GitHubForEducation.key Download Comment Delete... Rename Move... More 3.47 MB

.git

GitHubForEducation.key Share... Download Comment Delete... Rename Move... Copy... Previous versions

Share

The screenshot shows a file named "GitHubForEducation.key" selected in a Dropbox folder. A context menu is open over the file, listing various actions: Share..., Download, Comment, Delete..., Rename, Move..., Copy..., and Previous versions. The "Share" button is highlighted in blue, indicating it is the active or recommended action. The file has a size of 3.47 MB and was uploaded "11 days ago". The folder also contains a ".git" folder.

VERSIONING

 GitHubForEducation.key	• 8:34 AM	Edited by Paula Waite. • Desktop	3.47 MB	
 GitHubForEducation.key	• 8:31 AM	Edited by Paula Waite. • Desktop	3.48 MB	
 GitHubForEducation.key	• 8:27 AM	Edited by Paula Waite. • Desktop	3.5 MB	
 GitHubForEducation.key	• 8:25 AM	Edited by Paula Waite. • Desktop	3.5 MB	Restore

Yesterday

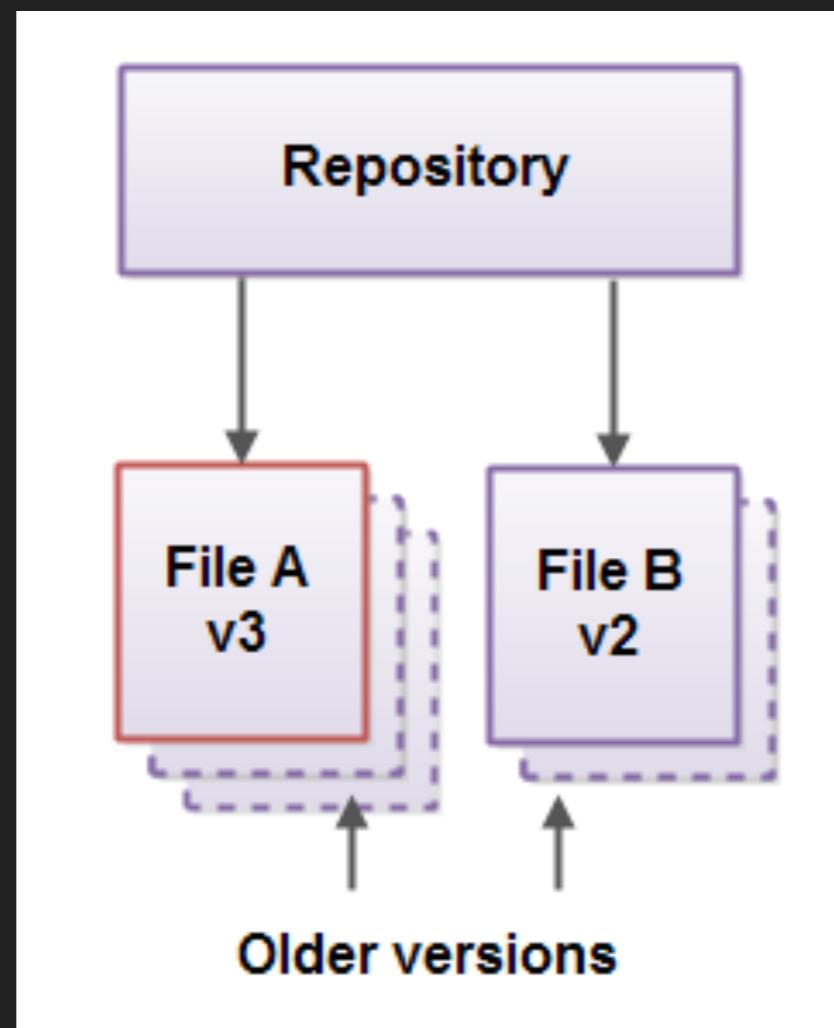
 GitHubForEducation.key	• 11:26 PM	Edited by Paula Waite. • Desktop	
 GitHubForEducation.key	• 11:25 PM	Edited by Paula Waite. • Desktop	
 GitHubForEducation.key	• 11:23 PM	Edited by Paula Waite. • Desktop	3.5 MB
 GitHubForEducation.key	• 10:44 PM	Edited by Paula Waite. • Desktop	3.51 MB

GOOGLE DOCS

File >> See Revision History

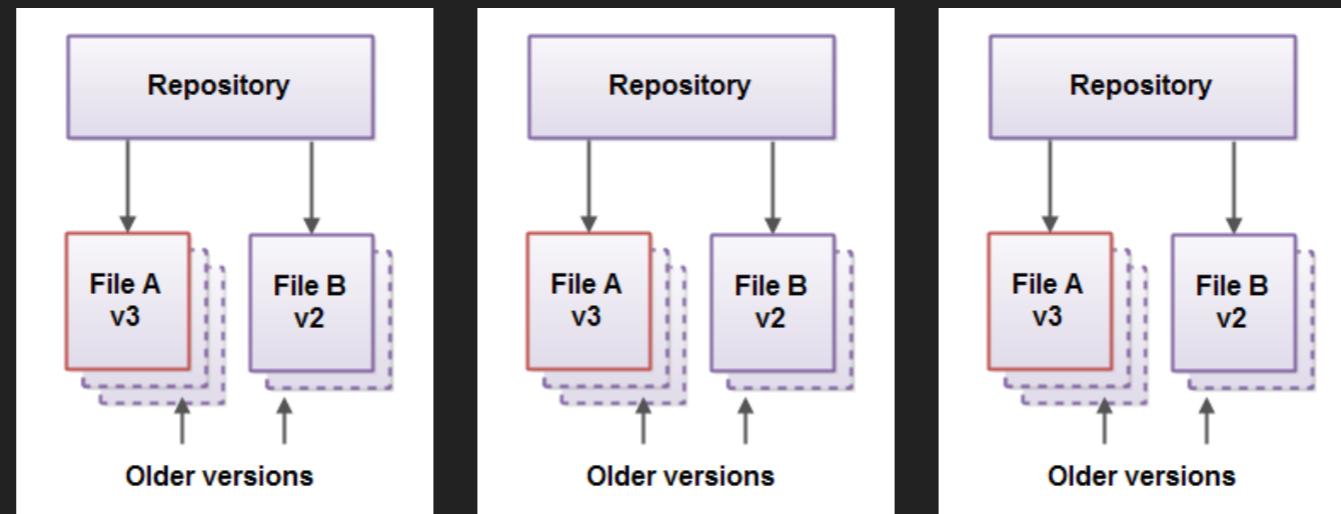
REPOSITORY

A collection of files and their *versions* that we want to manage.



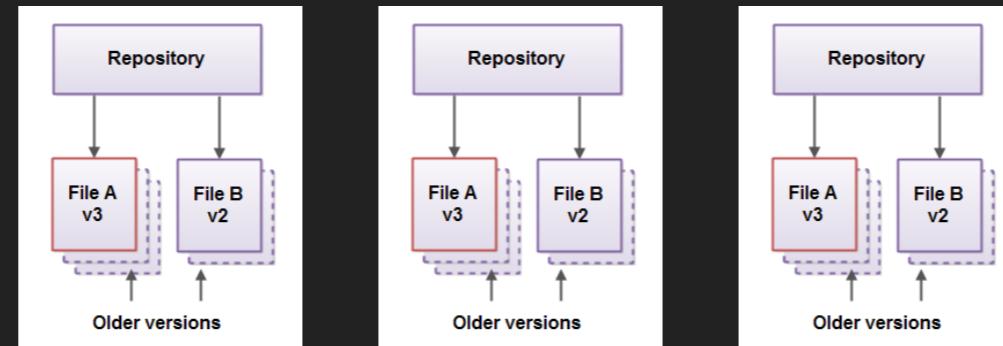
GIT

Free, open-source software program to manage versioning of files.



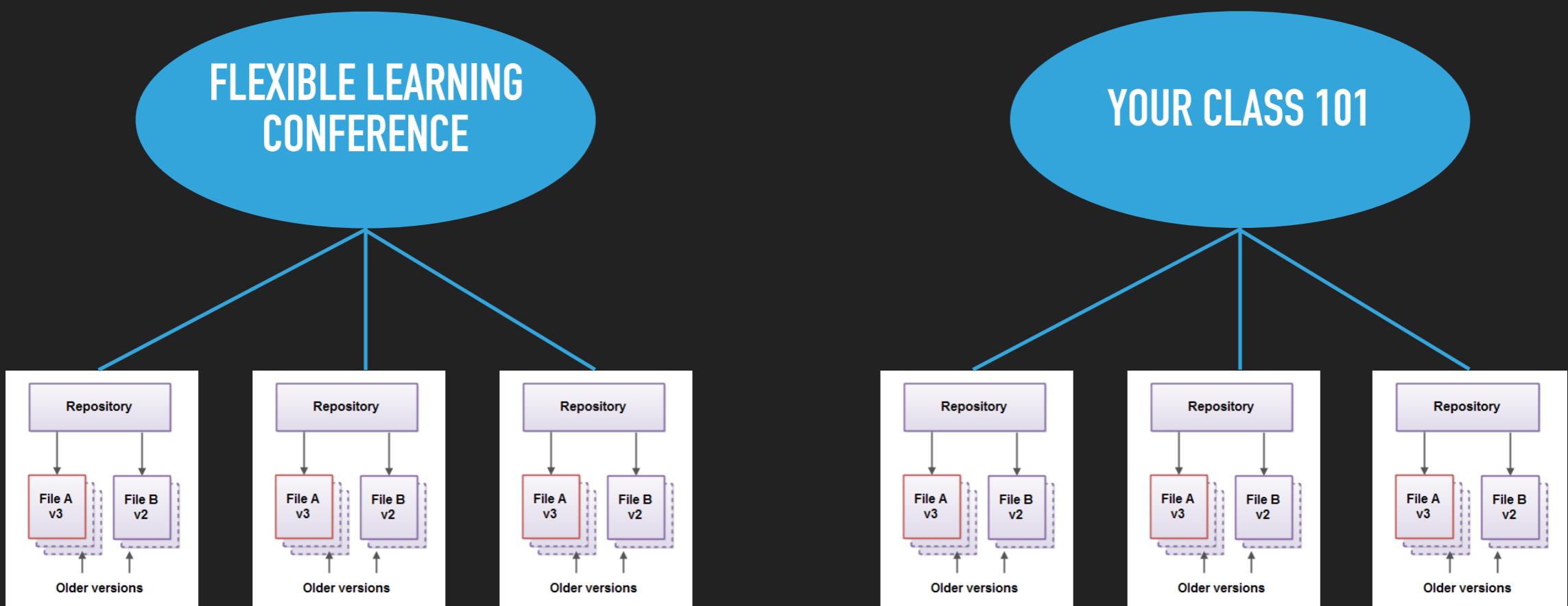
GITHUB

Web-based Git repository hosting service



GITHUB ORGANIZATION

A way to group repositories together and optionally manage access to those repositories.



GitHub, Inc. github.com/FlexibleLearningConference

This organization Search Pull requests Issues Gist

1Password



FlexibleLearningConference

Repositories

People 1

Teams 0

Settings

Filters ▾

Find a repository...

New repository

FlexibleLearningConference.github.io

Sample Website: GitHub in the Classroom

Updated 22 seconds ago

css ★ 0 ⚡ 0

GitHub-In-The-Classroom

Presentation: GitHub In The Classroom

Updated 27 minutes ago

★ 0 ⚡ 0

People



pawaitemadisoncollege
Paula Waite

Invite someone

GITHUB CLASSROOM

A website within GitHub designed specifically for teachers to administer their classes.



Your course assignments on GitHub

GitHub Classroom automates repository creation and access control, making it easy to distribute starter code and collect assignments on GitHub.

Sign in with your GitHub account to get started

Create assignments

Distribute assignments with starter code. Students work on assignments individually or in groups using public or private GitHub repositories.

Invite students

Students gain access to assignments using unique invitation URLs, eliminating the need to collect GitHub usernames in advance and manage access manually.

Review progress

Teachers and teaching assistants can browse submissions by assignment, making it easy to follow along with student progress.

Software Developer

Educator

HISTORY

DEVELOPER - VERSION, BACK UP, COLLABORATE

10 web/user/addReport.jsp → web/addReport.jsp

Show notes View

diff		@@ -5,13 +5,13 @@
5	5	Time: 4:43 PM
6	6	To change this template use File Settings File Templates.
7	7	--%>
8	8	-<jsp:include page="..../contentType.jsp" />
	8	+<jsp:include page="contentType.jsp" />
9	9	<html>
10	10	-<jsp:include page="..../head.jsp" />
	10	+<jsp:include page="head.jsp" />
11	11	<body role="document">
12	12	-<jsp:include page="..../navbar.jsp" />
	12	+<jsp:include page="navbar.jsp" />
13	13	Add Report Form will go here...
14	14	</body>
15		-<jsp:include page="..../contentEnd.jsp" />
16		-<jsp:include page="..../footer.jsp" />
	15	+<jsp:include page="contentEnd.jsp" />
	16	+<jsp:include page="footer.jsp" />
17	17	</html>

[Write](#) [Preview](#)

AA - B i “ < > ⌂ iii iii ⌄ ⌅ ↵ @

This change looks good!

Attach files by dragging & dropping or [selecting them](#).

EDUCATOR - VERSION, BACK UP, COLLABORATE

paula waite / java111

Commits

All branches ▾

Find commits

Author	Commit	Message	Date
Paula Waite	c0e75e0	updating calendar with task list and fixing matc links	2016-08-22
Paula Waite	4447b2a	initial commit	2016-08-12
Paula Waite	e0c446c	initial commit of online	2016-08-12
Ken Marks	2b3e73e	Adding sass-cache to .gitignore	2016-01-13
Eric Knapp	a54fb5c	Converting to markdown, mostly done except for checking and checking.	2016-01-11
Eric Knapp	bb69394	Converting module 1 to markdown. Adding a .markdown file and renamin...	2016-01-11
Paula Waite	9bf42ce	updating from fall 2015	2016-01-11
Paula Waite	200b181	Updates for Fall 2015	2015-08-22
Paula Waite	d191963	Adding all spring 2015 changes to repo	2015-08-22

EDUCATOR - SHARING EXAMPLES WITH STUDENTS

This repository Search Pull requests Issues Gist

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

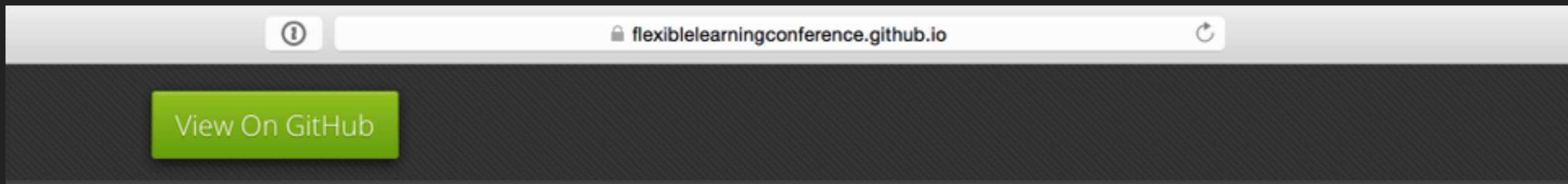
Branch: master DemoCodeFall2016 / src / java111 / project3 / demos / Create new file Upload files Find file History

pawaitemadisoncollege adding week 7 Latest commit 43260e0 11 hours ago

..

File	Message	Time
#Dog.java#	adding week 7	11 hours ago
Dog.class	adding week 7	11 hours ago
Dog.java	adding week 7	11 hours ago
DogFoodNeedsPrepCode.txt	adding week 7	11 hours ago
InputHelper.class	adding week 7	11 hours ago
InputHelper.java	adding week 7	11 hours ago
Kennel.class	adding week 7	11 hours ago
Kennel.java	adding week 7	11 hours ago
KennelLauncher.class	adding week 7	11 hours ago
KennelLauncher.java	adding week 7	11 hours ago
TestDogFoodNeeds.java	adding week 7	11 hours ago

EDUCATOR - HOSTING COURSE CONTENT



Git Hub in the Classroom

Presentation for the 2016 Flexible Learning Conference

Project maintained by [@pawaitemadisoncollege](#)

Hosted on GitHub Pages — Theme by [mattgraham](#)

Welcome!

This site was created to demonstrate how GitHub Pages can be used to create a simple website.

Presentation

You can access the GitHub in the Classroom presentation here:

[» PDF Version](#)

[» Keynote Version](#)

EDUCATOR - STUDENT FEEDBACK ON CONTENT

Tutorial link on Week 6 README is wrong #1

 Closed

sgreenholtz opened this issue 6 days ago · 2 comments



sgreenholtz commented 6 days ago



The link leads to the WSDL for the NOAA service, not to a tutorial.



pawaitemadisoncollege commented 6 days ago



Do you have an old copy by any chance? I fixed this yesterday....

[7479659](#) [#diff-07ad093ccbfd657ce9a47eef3d52ddc8](#)



sgreenholtz commented 6 days ago



Yeah I think I forgot to refresh the page

EDUCATOR - ASSIGNMENTS

GitHub Classroom

GitHub Classroom

GitHub Classroom

GitHub Education



FlexibleLearningConference2016

@FlexibleLearningConference

Manage classroom

New Assignment



Individual assignment

Each participant works individually on their own repository.

Create an individual assignment



Group assignment

Participants form teams that work together on a shared repository.

Create a group assignment

Collaboration

Content-Hosting

Classroom

USES

NOT JUST FOR PROGRAMMERS!

Having started as a developer's collaborative platform, GitHub is now the largest online storage space of collaborative works that exists in the world. Whether you're interested in participating in this global mind meld or in researching this massive file dump of human knowledge, you need to be here.

Lauren Orsini - ReadWrite.com

COLLABORATIVE WRITING

A group of two dozen mathematicians wrote a 600 page book in less than half a year using GitHub.

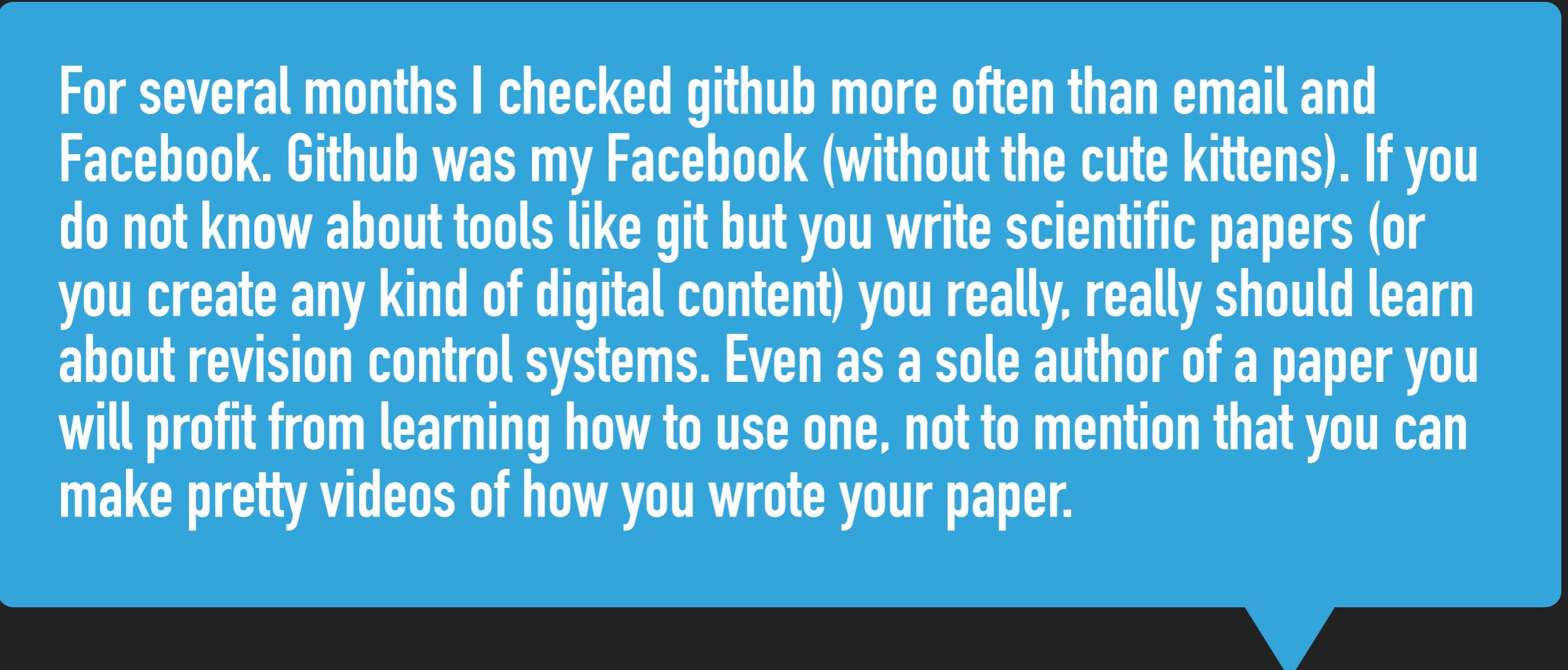
Homotopy Type Theory

Univalent Foundations of Mathematics

$\Pi \Sigma \Pi \times \Pi \Sigma \Pi \Sigma \Pi \lambda \Pi \Sigma \simeq$
 $\simeq \times \simeq \Sigma \simeq \times \simeq \simeq \times \simeq \Sigma \simeq \lambda \Pi \Sigma \Pi \Sigma \simeq$
 $\Sigma \Pi \lambda \Pi \lambda \Pi \Sigma \Pi \Sigma \Pi \lambda \Pi \times \Sigma \simeq \times \lambda \Pi \lambda \Pi$
 $\simeq \simeq \simeq \simeq \lambda \simeq \lambda \simeq \lambda \simeq \lambda \Pi \lambda \Pi \Sigma \simeq \Sigma \simeq \Sigma$
 $\Sigma \Pi \times \Pi \times \Sigma \Pi \Sigma \Pi \times \Pi \simeq \times \Sigma \times \Pi \lambda \Pi \times \lambda$
 $\times \lambda \simeq \lambda \simeq \lambda \Sigma \lambda \Pi \simeq \Pi \Sigma \simeq \Sigma \simeq \Pi$
 $\Pi \Sigma \Pi \Sigma \Pi \Sigma \Pi \simeq \Pi \simeq \lambda \Sigma \lambda \Pi \lambda \Sigma$
 $\simeq \simeq \simeq \Sigma \Pi \simeq \Sigma \Pi \simeq \Sigma \lambda \Sigma \Pi \simeq$
 $\Sigma \Pi \times \Pi \Sigma \Pi \Sigma \Pi \simeq \Pi \lambda \Sigma \Pi \times \Pi \simeq \Pi \simeq$
 $\lambda \simeq \simeq \simeq \lambda \Pi \simeq \Sigma \times \Sigma \Pi \Pi \simeq \Sigma \times \Sigma \Pi$
 $\Pi \Sigma \Pi \Sigma \Pi \Sigma \Pi \times \Sigma \times \Pi \lambda \Pi \simeq \Pi \simeq \Pi \simeq \lambda$
 $\lambda \simeq \simeq \lambda \simeq \lambda \simeq \lambda \Pi \simeq \Sigma \lambda \Sigma \Pi \simeq \Sigma \lambda \Sigma \Pi$
 $\Sigma \Pi \lambda \Pi \Sigma \Pi \Sigma \Pi \Sigma \Pi \times \Sigma \Pi \simeq \Pi \simeq \Pi \simeq \lambda \Sigma$
 $\simeq \times \Sigma \simeq \times \simeq \times \simeq \lambda \Pi \simeq \times \Sigma \lambda \Sigma \lambda \Sigma \times \Pi$
 $\lambda \Pi \lambda \Pi \Sigma \Pi \Sigma \Pi \Sigma \times \Sigma \Pi \simeq \Pi \simeq \Pi \simeq \lambda \lambda \times \Sigma \times \Sigma \lambda \Sigma \times \Sigma \Pi$
 $\times \Sigma \Pi \simeq \Pi \simeq \times \Sigma \lambda \Sigma \times \Sigma \Pi \simeq \Pi \simeq \Pi \simeq \times \simeq$
 $\Pi \simeq \Pi \simeq \times \simeq \Pi \simeq \Pi$

THE UNIVALENT FOUNDATIONS PROGRAM
INSTITUTE FOR ADVANCED STUDY

For several months I checked github more often than email and Facebook. Github was my Facebook (without the cute kittens). If you do not know about tools like git but you write scientific papers (or you create any kind of digital content) you really, really should learn about revision control systems. Even as a sole author of a paper you will profit from learning how to use one, not to mention that you can make pretty videos of how you wrote your paper.



Andrey Bauer

<https://vimeo.com/68761218>

COLLABORATION

Imagine a small group of college students assigned to write a group paper.



COLLABORATION

Jen starts writing the paper, implementing a basic structure and some initial facts.

18 lines (9 sloc) | 171 Bytes

MAIN

Group Paper

Introduction

Jen's first cut at the intro...

Body

Jen's initial facts.... More facts from Jen...

Conclusion

References

Appendix

COLLABORATION

Jacob clicks a button and grabs his own version of the document. He doesn't have to download a file, make a copy, and rename it. GitHub takes care of that.

CREATE A COPY

18 lines (9 sloc) | 171 Bytes

MAIN

Group Paper

Introduction

Jen's first cut at the intro...

Body

Jen's initial facts.... More facts from Jen...

Conclusion

References

Appendix

18 lines (9 sloc) | 171 Bytes

JACOB

Group Paper

Introduction

Jen's first cut at the intro...

Body

Jen's initial facts.... More facts from Jen...

Conclusion

References

Appendix

COLLABORATION

Jacob can make changes at will, without worrying about affecting anybody else (unlike real-time tools like Google Docs or Dropbox). He adds a new section, and also fixes some of my factual errors.

24 lines (12 sloc) | 270 Bytes

JACOB

Group Paper

Table Of Contents

Introduction

Jen's first cut at the intro. Jacob's addition to the intro.

Jacob adds more.

Body

Jen's initial facts.... Jacob fixes some facts from Jen...

Conclusion

References

Appendix A

Appendix B

COLLABORATION

Jacob thinks his changes are ready to be merged into the main document, so he creates request to merge with the click of a button.

The team is automatically notified via email that Jacob opened a request.



24 lines (12 sloc) | 270 Bytes

JACOB

Group Paper

Table Of Contents

Introduction

Jen's first cut at the intro. Jacob's addition to the intro.

Jacob adds more.

Body

Jen's initial facts.... Jacob fixes some facts from Jen...

Conclusion

References

Appendix A

Appendix B

To: The team
From: GitHub
Subject: Jacob's Merge Request

Hey there, Jacob made some changes he'd like to merge in. Check them out [here](#).

Thanks,

The GitHub Crew

COLLABORATION

Everyone can quickly see exactly what changed - line for line, word for word.

Group Paper

JACOB'S CHANGES

Table Of Contents

Introduction

Jen's first cut at the ~~intro..~~ intro. Jacob's addition to the intro.

Jacob's adds more.

Body

Jen's initial facts.... ~~More~~ Jake fixes some facts from Jen...

Conclusion

References

Appendix A

Appendix B

COLLABORATION

Mary looks over Jacob's work and notices a few issues, which she points out in a comment on Jacob's request.

Jacob is notified automatically of any comments on his request.

Showing 1 changed file with 9 additions and 3 deletions.

12 README.md

		@@ -1,17 +1,23 @@
1	1	## Group Paper
2	2	
	3	+## Table Of Contents
	4	+
3	5	### Introduction
4		-Jen's first cut at the intro...
	6	+Jen's first cut at the intro. Jacob's addition to the intro.
	7	+

Write Preview AA B i { }

Hi Jacob,

What do you think about changing x, y and z here?

Mary

Attach files by dragging & dropping or [selecting them](#).

Styling with Markdown is supported

Cancel

	8	+Jacob's adds more.
5	9	
6	10	### Body

COLLABORATION

Jacob makes the changes suggested by Mary, and makes another merge request.

This triggers another email and review by the team.

24 lines (12 sloc) | 284 Bytes

JACOB

Group Paper

Table Of Contents

Introduction

Jen's first cut at the intro. Jacob's addition to the intro.

Jacob adds more.

Body

Jen's initial facts.... Jacob's x, y, z changes to the facts from Jen...

Conclusion

References

Appendix A

Appendix B

COLLABORATION

Mary approves his request with the click of a button, and the changes are merged into the main document.



24 lines (12 sloc) | 284 Bytes

JACOB

Group Paper

Table Of Contents

Introduction

Jen's first cut at the intro. Jacob's addition to the intro.

Jacob adds more.

Body

Jen's initial facts.... Jacob's x, y, z changes to the facts from Jen...

Conclusion

References

Appendix A

Appendix B

24 lines (12 sloc) | 284 Bytes

MAIN

Group Paper

Table Of Contents

Introduction

Jen's first cut at the intro. Jacob's addition to the intro.

Jacob adds more.

Body

Jen's initial facts.... Jacob's x, y, z changes to the facts from Jen...

Conclusion

References

Appendix A

Appendix B

COLLABORATION BENEFITS

Free

Reliable

Efficient

Backup

Versioning

Notifications

Communication channel for issues and discussions

CONTENT HOSTING

Simple file sharing

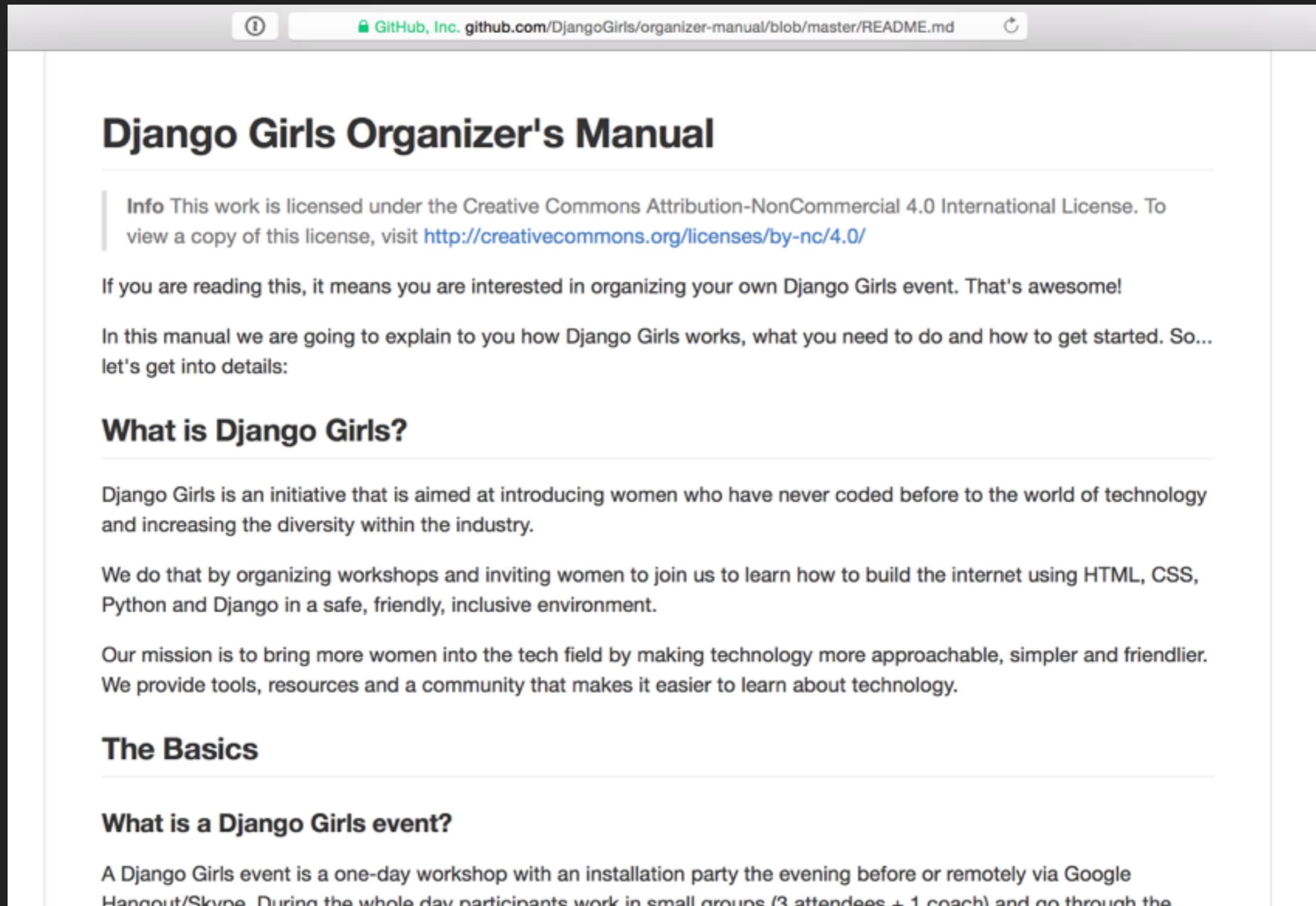
Blogging

Portfolios

Website Hosting

and more...

EVENT ORGANIZATION



The screenshot shows a GitHub page for the file `README.md` in the `DjangoGirls/organizer-manual` repository. The title of the page is **Django Girls Organizer's Manual**. The page content includes a license notice, an introduction, and sections about the organization's mission and basics.

Django Girls Organizer's Manual

Info This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc/4.0/>

If you are reading this, it means you are interested in organizing your own Django Girls event. That's awesome!

In this manual we are going to explain to you how Django Girls works, what you need to do and how to get started. So... let's get into details:

What is Django Girls?

Django Girls is an initiative that is aimed at introducing women who have never coded before to the world of technology and increasing the diversity within the industry.

We do that by organizing workshops and inviting women to join us to learn how to build the internet using HTML, CSS, Python and Django in a safe, friendly, inclusive environment.

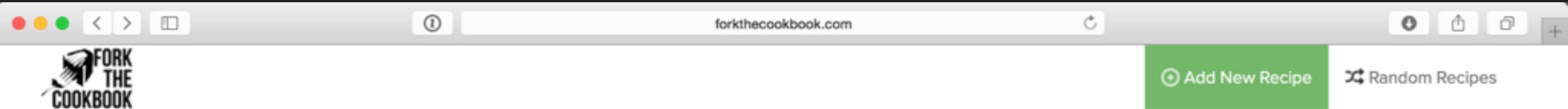
Our mission is to bring more women into the tech field by making technology more approachable, simpler and friendlier. We provide tools, resources and a community that makes it easier to learn about technology.

The Basics

What is a Django Girls event?

A Django Girls event is a one-day workshop with an installation party the evening before or remotely via Google Hangout/Skype. During the whole day participants work in small groups (3 attendees + 1 coach) and go through the

RECIPE SHARING AND REMIXING



Fork the Cookbook is your personal scrapbook for recipes.

Fork a recipe (make a copy to work on variations) into your personal cookbook

Email

Sign In or Register

TARTE AU CHOCOLAT

INGREDIENTS (4) black chocolate (sweetened), cream, eggs, pate sablee

BROWNIES OF CHOKOLADECAKE

INGREDIENTS (9) donkere chokolade, boter, kristalsuiker, bruine basterdsuiker, zelfrijzend bakmeel, zakje vanillesuiker, tl zout, eieren, ei gemalen kokos

STRAWBERRY TREE JAM WITH MANGO AND LEMON

INGREDIENTS (6) arbutus unedo strawberry tree fruit, water, sugar, mango, zest of one lemon, juice of one lemon

CO/CO/BEE

INGREDIENTS (3) unit coconut butter, units cocoa powder, unit honey

BEEF ENCHILADAS

INGREDIENTS (13) enchilada sauce, olive oil, ground beef, diced green chiles, kosher salt and freshly ground black pepper, canned corn kernels, canned black beans, monterey jack cheese, shredded cheddar cheese, flour tortillas, chopped fresh cilantro leaves, avocado, roma tomato

ROASTED CHICKEN WITH CREAMY CHEDDAR RICE

INGREDIENTS (11) brown basmati rice, olive oil, chopped yellow onion, water, salt, medium boneless skinless chicken thighs, salt and pepper, italian seasoning, sharp cheddar cheese, sour cream, steamed fresh broccoli

CHINESE-FIED RISOTTO

SPAGHETTI CARBONARA

BANOFFEE PIE

CLUB WEBSITES

The screenshot shows a web browser window with the URL www.ratpackrobotics.com. The page title is "RatPack". The main content is a group photograph of the RatPack robotics team. In the background, there's a gymnasium setting with a scoreboard showing "20" and "6". Above the scoreboard, a large digital display reads "830 The RatPack". To the left, a banner for the "Southwest Michigan Athletic Conference" lists member schools under "WEST" and "EAST". The team members are wearing yellow t-shirts with the "830 The RatPack" logo. Overlaid on the image is the text "Shape the future" in large white letters, followed by "Teaching, learning, and competing since 2002" and "LEARN MORE OUR ROBOTS CONTACT US JOIN". At the bottom, there are social media icons for Twitter, Facebook, YouTube, and Google+. The browser window has tabs for "RatPack" and "CS109 Data Science".

COURSE WEBSITES

CS109 Data Science

Home Slides/Videos Piazza Syllabus Schedule GitHub Projects Resources



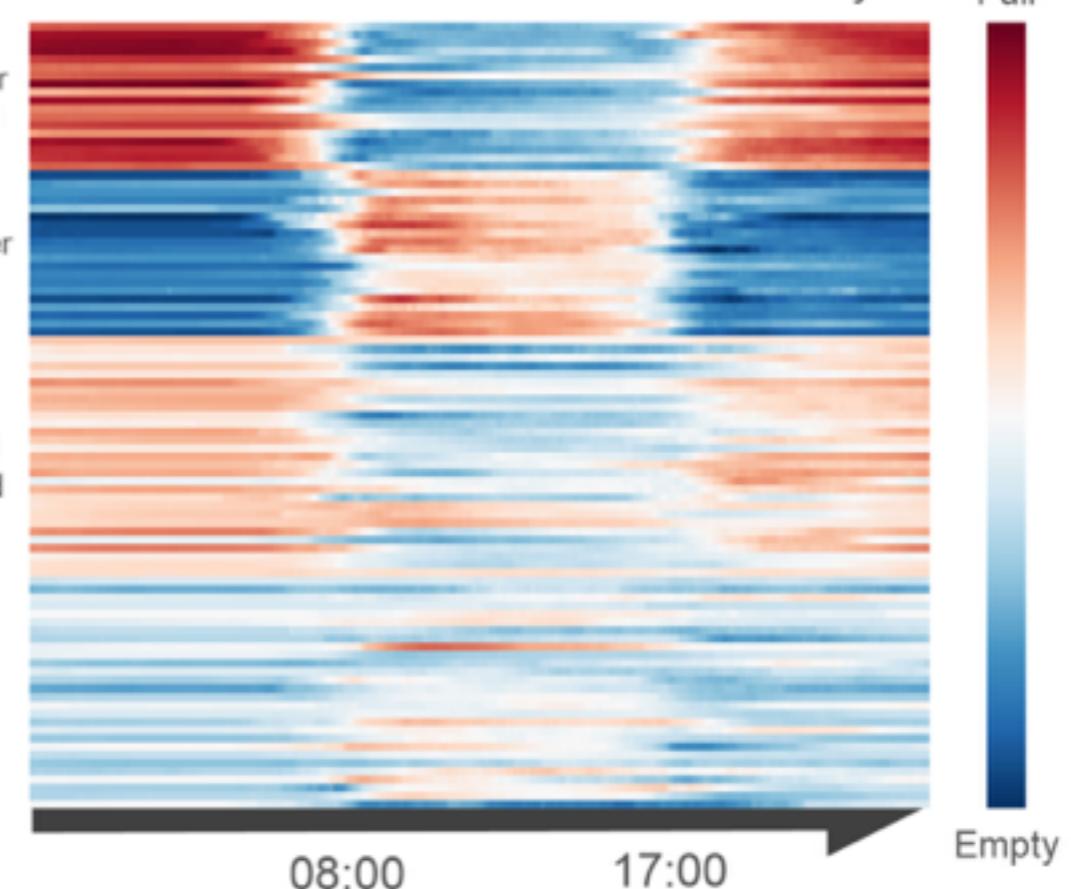
HARVARD
John A. Paulson
School of Engineering
and Applied Sciences

CS109 Data Science

Station Clusters



Station Fullness Over Time of Day



Predicting Hubway Stations Status by Lauren Alexander, Gabriel Goulet-Langlois, Joshua Wolff

Learning from data in order to gain useful predictions and insights. This course introduces methods for five key facets of an investigation: data wrangling, cleaning, and sampling to get a suitable data set; data management to be able to access big data quickly and reliably; exploratory data analysis to generate hypotheses and intuition; prediction based on statistical methods such as regression and classification; and communication of results through visualization.

COURSE MATERIALS

A screenshot of a web browser window displaying course materials for Harvard CS109. The browser has a light gray header with standard OS X-style controls (red, yellow, green buttons, back/forward arrows, etc.). The address bar shows the URL [GitHub, Inc. github.com/cs109/content](https://github.com/cs109/content). The main content area has a white background and features several sections:

- Welcome to CS109: Data Science**
- [Official Course Page](#)
- Assignments**
 - Homework 0: Hello, world ([solutions](#))
 - Homework 1: Which of two things is larger? ([solutions](#))
 - Homework 2: Desperately Seeking Silver ([solutions](#))
 - Homework 3: Bayesian Tomatoes ([solutions](#))
 - Homework 4: Do We Really Need Chocolate Recommendations? ([solutions](#))
 - Homework 5: Networks and Congress ([solutions](#))
- Lecture Supplements**
 - A gallery of statistical graphs with matplotlib (see also the version with [default matplotlib styles](#))
 - A rubric for data wrangling and exploratory data analysis
 - Web Scraping and Parsing Demo
 - Cross Validation: The Right and Wrong Way
- Labs**
 - Lab 2: Web Scraping
 - Lab 3: EDA, Pandas, Matplotlib
 - Lab 4: Scikit-Learn, Regression, PCA
 - Lab 5: Bias, Variance, Cross-Validation
 - Lab 6: Bayes, Linear Regression, and Metropolis Sampling

CONTENT HOSTING BENEFITS

Free

Reliable

Searchable

Instant updates

Lots of support

GITHUB CLASSROOM

Open source

Lots of support for educators

Step-by-Step Instructions, How-to-Videos, Community (Forums)

Free unlimited private repositories

Student Pack

Students and colleagues can contribute to content

Assignments

Inline feedback, discussions, issues

ASSIGNMENT TRACKING

GitHub Classroom

GitHub Education



MadJavaEntFall2016

@MadJavaEntFall2016

Manage classroom



Hibernate Week 3 Exercise

Individual assignment

Assignment settings

Give this to your students

<https://classroom.github.com/assignment-invitations/18f2f2b2b55291c7ce7f66fcc90090f0>

Copy invitation link



jadecristal

[MadJavaEntFall2016/hibernate-week-3-exerci...](#)



tbreunig

[MadJavaEntFall2016/hibernate-week-3-exerci...](#)



vlee1

[MadJavaEntFall2016/hibernate-week-3-exerci...](#)

PROVIDING FEEDBACK

```
34    35          * @return user
35    36          */
36    37      public User getUser(int id) {
37        -          //TODO return a user for the given id
38        -          return null;
38        +          Session session = SessionFactoryProvider.getSessionFactory().openSession();
39        +          User user = (User) session.get(User.class, id);
40        +          session.close();
41        +          clearAllCache();
```

Leave a comment

Attach files by dragging & dropping or selecting them.

 Styling with Markdown is supported

Write **Preview** **AA** **B** **i** **“** **<>** **②** **☰** **≡** **↶** **↷** **@** **Bookmark**

Cancel **Add single comment**

```
    42     +      return user;
39     43     }
40     44
41     45     /**
‡     @@ -45,8 +49,12 @@ public User getUser(int id) {
45     49             * @return the id of the inserted record
46     50             */

```

WHO'S CONTRIBUTING

This repository Search Pull requests Issues Gist

woestmab / weatherWebService Watch 3 Star 0 Fork 2

Code Issues 1 Pull requests 0 Projects 0 Wiki Pulse Graphs

Contributors Commits Code frequency Punch card Network Members

Feb 28, 2016 – Oct 14, 2016 Contributions: Commits

Contributions to master, excluding merge commits

Contributor	Commits	Plus (+)	Minus (-)
woestmab	48	1,540	549
jmatzke1	46	1,323	1,569

MORE DATA

CLASSROOM BENEFITS

Free

Reliable

Efficient

Individual and group work

Notifications/Communication channel for issues and discussions

In-line feedback

Tracking

CREATE AN ORGANIZATION/CLASS

Screenshot of a GitHub profile page for Paula Waite, showing the creation of a new organization.

The top navigation bar includes:

- Search GitHub
- Pull requests
- Issues
- Gist
- A user icon with a plus sign (circled in pink)

The main profile area shows:

- Profile picture of Paula Waite
- Name: **Paula Waite**
- Username: pawaitemadisoncollege
- Add a bio
- Edit profile button
- Link to website: <http://paulawaite.com>
- Joined on Aug 19, 2015
- Repositories: 19
- Stars: 0
- Followers: 8
- Following: 0
- New repository
- Import repository
- New organization** (circled in pink)

The "Popular repositories" section lists:

- GitSample**: Forked from MadJavaEnterpriseFallEve2015/GitSample. 0 stars, Java language.
- SampleWebApp**: Forked from MadJavaEnterpriseFallEve2015/SampleWebApp. 0 stars, Java language.
- openshift-tomcat-quickstart**: Forked from MadJavaEnterpriseFallEve2015/openshift-tomcat-quickstart. 0 stars, HTML language.
- GitPractice**: 0 stars, Java language.
- openshift**: 0 stars.
- QuickMockup**: Forked from bciancio/QuickMockup. 0 stars. QuickMockup to illustrate my feedback for Paula.

The bottom section shows contributions over the last year:

- 873 contributions in the last year
- Contribution settings
- Grid visualization of contributions by month and day

CREATE AN ORGANIZATION/CLASS



Search GitHub

Pull requests Issues Gist



Create an organization

Completed
Set up a personal account

Step 2:
Set up the organization

Step 3:
Invite members

Set up the organization

Organization name

The organization will live at <https://github.com/>

Billing email

Receipts will be sent here

Plan

Unlimited members and public repositories for free.

Unlimited private repositories at \$25/month for your first 5 users. \$9/month for each additional user.

Organizations

- Repository management
- Fine-grained permissions
- Focused dashboard

The credit card and plan you choose on this screen will be billed to the organization — not your user account ([pawaitemadisoncollege](#)).

[Learn more](#)

CREATE A CLASSROOM

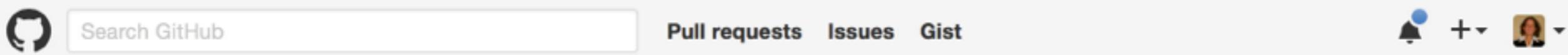
The screenshot shows the GitHub Classroom interface. At the top, there's a browser header with the URL `classroom.github.com/classrooms`. Below the header, the GitHub Classroom logo is on the left, and navigation links like "Hub Classroom", "GitHub Education", and "Bitly | URL Shortener and Link Mana..." are visible. On the right side of the header, there are icons for a user profile, a pull request, and a file.

The main content area is titled "Classrooms". It displays two classroom profiles:

- FlexibleLearningConference2016** (Profile icon: purple 'T')
 - Created by **FlexibleLearningConference**
 - 1 student, 0 assignments
- MadJavaEntFall2016** (Profile icon: teal teapot)
- Created by **@MadJavaEntFall2016**
- 5 students, 0 assignments

A green "New classroom" button is located in the top right corner of the main content area.

CREATE AN ASSIGNMENT (NEW REPOSITORY)



Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



pawaitemadisoncollege ▾

Repository name

NewAssignment



Great repository names are short and memorable. Need inspiration? How about [bookish-lamp](#).

Description (optional)

Assignment Demo

Public

Anyone can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **None** ▾



CREATE THE ASSIGNMENT INSTRUCTIONS

 README.md

GitHub Education Assignment 1

Example assignment created for the *GitHub in the Classroom* talk which you can use as a "Getting Started" guide for GitHub for Education.

- Set up a free GitHub account. You probably already did that if you are here, but if not, follow the steps [here](#) to sign up.
- [Request](#) the educator discount. Choose individual account, rather than organization. An organization account would be for an entire company or school.
- [Join](#) the educator community.
- [Create](#) an organization for your class.
- [Create](#) a classroom. I generally create one classroom for each organization/class.
- [Watch videos](#) to learn more about GitHub Classroom.
- [Create](#) your first assignment in one of your classrooms.
- Extra Challenge: [Create your own website](#).

ADD THE ASSIGNMENT TO THE CLASS

The screenshot shows the GitHub Classroom interface. At the top, there's a browser header with the URL `classroom.github.com/classrooms`. Below the header, the GitHub Classroom logo is on the left, and navigation links for "GitHub Classroom", "GitHub Education", and user profile icons are on the right. A green button labeled "New classroom" is visible on the right side of the main content area.

Classrooms

Thumbnail	Classroom Name	Students	Assignments
	FlexibleLearningConference2016 @FlexibleLearningConference	1	0
	MadJavaEntFall2016 @MadJavaEntFall2016	5	0

ADD THE ASSIGNMENT TO THE CLASS

GitHub Classroom

GitHub Education



FlexibleLearningConference2016

@FlexibleLearningConference

Manage classroom

Assignments

This organization doesn't have any assignments yet.

Create your first assignment

ADD THE ASSIGNMENT TO THE CLASS

GitHub Classroom

GitHub Education



FlexibleLearningConference2016

@FlexibleLearningConference

Manage classroom

New Assignment



Individual assignment

Each participant works individually on their own repository.

[Create an individual assignment](#)



Group assignment

Participants form teams that work together on a shared repository.

[Create a group assignment](#)

ADD THE ASSIGNMENT TO THE CLASS



New individual assignment

Your assignment title

Assignment-One

Your assignment repository prefix

assignment-one

This will prefix each GitHub repository that is created for this assignment. May only contain alphanumeric characters, underscores or hyphens.

Public

Submit assignments using public repositories. All submissions will be visible to the world.

Private

Submit assignments using private repositories. Submissions will only be visible to the submitter and organization owners.

Give students Admin permissions on their repository

Add your starter code from GitHub (optional)

pawaitemadisoncollege/GitHub-Education-Assignment-1

ADD THE ASSIGNMENT TO THE CLASS

GitHub Classroom

GitHub Education



FlexibleLearningConference2016

@FlexibleLearningConference

Manage classroom

"Assignment-One" has been created!



Assignment-One

Individual assignment

Assignment settings

Give this to your students

<https://classroom.github.com/assignment-invitations/a0f5edfe01487618ba8a4f4debebe686>

Copy invitation link

"Assignment-One" does not have any repositories.

Share the invitation link with your students to get started.

TIPS AND TRICKS

Request the educator discount in advance of when you need it

Create an organization for each course

GitHub recommends keeping repositories under 1 GB

Files must be under 100 MB

Word docs - cannot easily view differences

RESOURCES

Git tutorial: <https://try.github.io/levels/1/challenges/1>

GitHub Classroom/Education: <https://education.github.com>

GitHub Pages (Host a site): <https://pages.github.com>

GitHub Classroom - getting started videos: https://www.youtube.com/watch?v=ChA_zph7aa0

This presentation, including an assignment to get started:
<http://bit.ly/2dPLr0p>

REFERENCES

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<https://education.github.community/t/web-enabled-github-pages-assignment-starters/2213>

<https://github.com/skillstak/github-classroom-tips>

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