

GitHub for Mathematicians

JMM 2024 Professional Enhancement Program

GitHub for Mathematicians

JMM 2024 Professional Enhancement Program

Steven Clontz
Univeristy of South Alabama

August 4, 2023

Website: jmm2024.clontz.org

©2020–2023 You

This work is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. To view a copy of this license, visit [CreativeCommons.org](http://creativecommons.org)¹

¹creativecommons.org/licenses/by-sa/4.0

Contents

Abstract	1
Workshop Details	2
1 Git vs. GitHub	3
1.1 What Is Git?	3
1.2 What Is <i>GitHub</i> ?	3
2 Your First Repository	4
2.1 Creating the repo.	4
2.2 Using GitHub.dev	4
2.3 Committing and syncing	4
3 Websites with GitHub Pages	5
3.1 Starting with a template	5
3.2 Posts and pages	5
3.3 Tweaking the layout	5
3.4 Just let me host some HTML!	5
4 Writing and Running Code	6
5 Open Educational Resources	7
6 Collaborating with Students and Colleagues	8
Back Matter	

Abstract

Increasingly, the cyberinfrastructure of mathematics and mathematics education is built using GitHub to organize projects, courses, and their communities. In this PEP, participants will learn the basic features of GitHub available using only a web browser, and how to use these features to participate in GitHub-hosted mathematical projects with colleagues and/or students.

Workshop Details

This workshop will take place on Wednesday January 3, 2024, 1:00 p.m.-3:00 p.m, and Thursday January 4, 2024, 1:00 p.m.-3:00 p.m.

We will be located at Foothill E, Marriott Marquis San Francisco.

More information about JMM 2024 in San Francisco can be found at [Joint-MathematicsMeetings.org](https://www.jointmathematicsm Meetings.org)².

²www.jointmathematicsm Meetings.org/meetings/national/jmm2024/2300_program.html

Chapter 1

Git vs. GitHub

Hello

1.1 What Is Git?

Hello

1.2 What Is Git*Hub*?

Hello

Chapter 2

Your First Repository

Hello

2.1 Creating the repo

Hello

2.2 Using GitHub.dev

Hello

2.3 Committing and syncing

Hello

Chapter 3

Websites with GitHub Pages

Hello

3.1 Starting with a template

Hello

$$e = mc^2$$

3.2 Posts and pages

Hello

3.3 Tweaking the layout

Hello

3.4 Just let me host some HTML!

Hello

Chapter 4

Writing and Running Code

Hello

Chapter 5

Open Educational Resources

Hello

Chapter 6

Collaborating with Students and Colleagues

Hello

Colophon

This book was authored in PreTeXt.