BGGN 213

Course Summary & GitHub Portfolio

Class 20

Barry Grant

UC San Diego

http://thegrantlab.org/bggn213

Today's Menu

- Summary of major learning goals,
- Course discussion and feedback (https://board.net/p/bggn213_f21)
- CAPs evaluation (Link)
- Final exam
  - ➡ Test structure, guidelines and rules
  - ➡ Topics and example questions
  - ➡ Exam preparation, discussion and open study
- Polish our GitHub content and publish your own website portfolios

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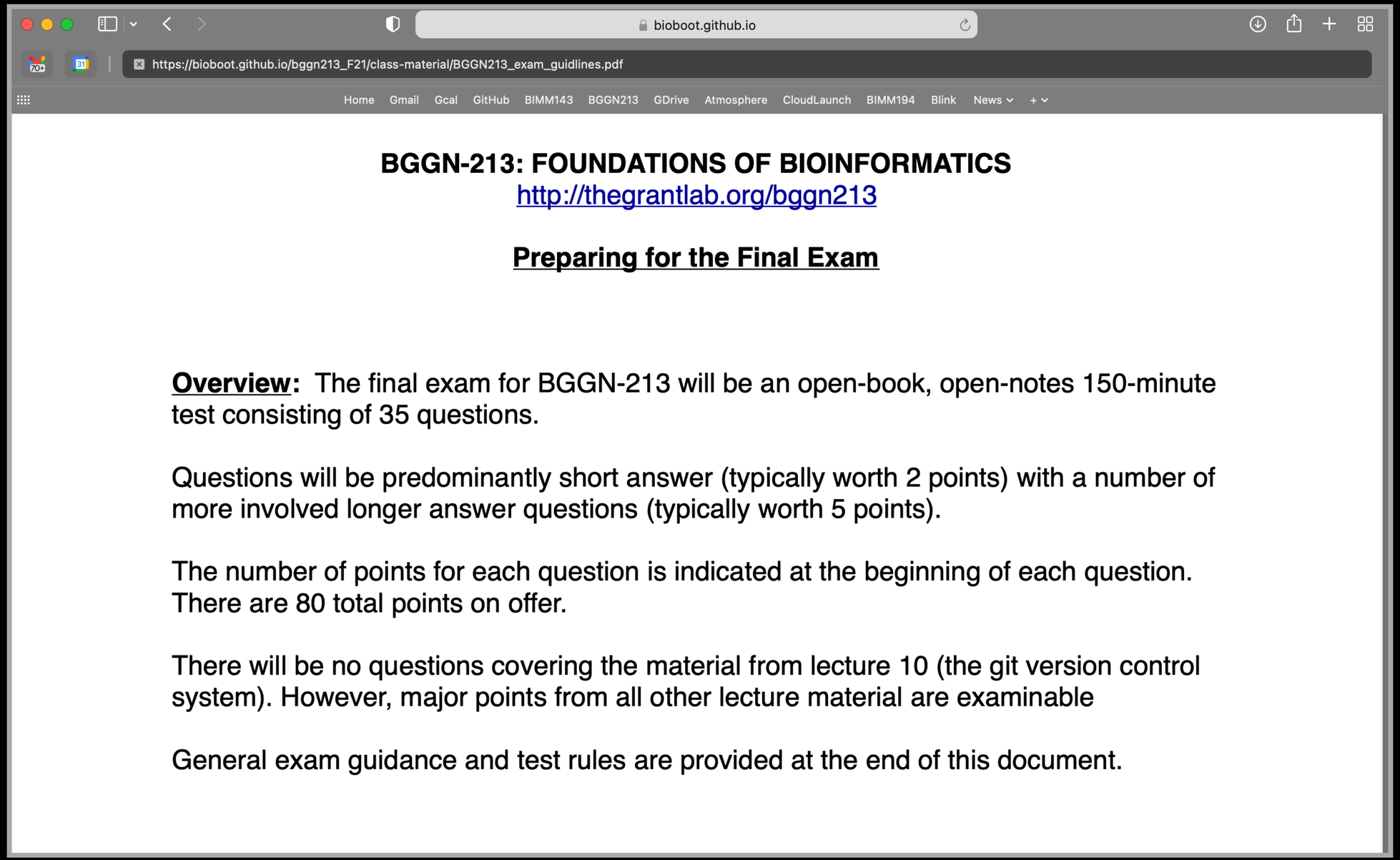
https://bioboot.github.io/bggn213_F21/class-material/BGGN213_exam_guidlines.pdf



BGGN-213: FOUNDATIONS OF BIOINFORMATICS
http://thegrantlab.org/bggn213

Preparing for the Final Exam

Overview: The final exam for BGGN-213 will be an open-book, open-notes 150-minute test consisting of 35 questions.

Questions will be predominantly short answer (typically worth 2 points) with a number of more involved longer answer questions (typically worth 5 points).

The number of points for each question is indicated at the beginning of each question. There are 80 total points on offer.

There will be no questions covering the material from lecture 10 (the git version control system). However, major points from all other lecture material are examinable

General exam guidance and test rules are provided at the end of this document.

Q1. Did you enjoy this course? (Rank in relation to others you have experienced at UCSD)?

Q2. Should this course be offered again?

Q3. If so what changes would you recommend for this course? (e.g. more/less DataCamp & Projects)

Q4. Was the course effectively organized (lecture and lab material online vs handout or TritonEd site)?

Q5. What advice would you give to another student who is considering taking this course?

Q6. Considering both the limitations and possibilities of the subject matter and the course, how would you rate the overall effectiveness of this course and instructor?

Q7. Do you agree or disagree - The course developed my abilities and skills for the subject?

Q8. On average, how many hours per week have you spent on this course, including attending classes, doing homework's and assignments?

Q9. Any other comments you would like to share?

EtherPad Version: https://board.net/p/bggn213_f21

Form Version: https://tinyurl.com/bggn213-summary

Thank you very much!

Announcement!

Bonus:
Bioinformatics & Genomics in Industry
Live Stram Video

Enjoy a set of short open ended guest lectures from leading genomic scientists at **Illumina Inc.**, **Synthetic Genomics Inc.**, and the **La Jolla Institute for Allergy and Immunology**. Feel free to contact these scientists for networking and to have your questions about industry careers in Bioinformatics and Genomics answered.

Bonus:
GitHub Spit & Polish

bioboot.github.io/bimm143-1/

Home Gmail Gcal Bitbucket GitHub BIMM143_F18 BGGN213_S18 BIMM-194 GDocs Disqus Blink News Atmosphere Galaxy + MMTF

bioboot/bimm143_serina_f18: Serina's Fall 2018 class repository fork | Serina's BIMM 143 Class Repository | Serina's Bioinformatics Class (BIMM143,... | Bioinformatics Class BIMM-143 | Introduction to Bioinformatics (BIMM143)

Introduction to Bioinformatics

A demo site of students cool class web site

View the Project on GitHub
bioboot/bimm143-1

This project is maintained by bioboot

Hosted on GitHub Pages — Theme by orderedlist

Bioinformatics Class

This is my repository for my Bioinformatics class from UC San Diego in S18.

Index of Material

Introductory Material: Working With R

Class 5 - Basic Data Exploration and Visualization in R HTML, MD, Rmd

Class 6 - Creating R Functions

Class 7 - R Packages, working with CRAN, and working with Bioconductor

Using R and Other Tools for Bioinformatics Analysis

Class 8 - An Introduction to Machine Learning (Heirarchical Clustering)

Class 9 - Analyzing High Dimensional Datasets and Unsupervised Learning

Class 11 - Structural Bioinformatics: Analyzing Protein Structure and Function

Class 12 - Drug Discovery: Techniques and Analysis

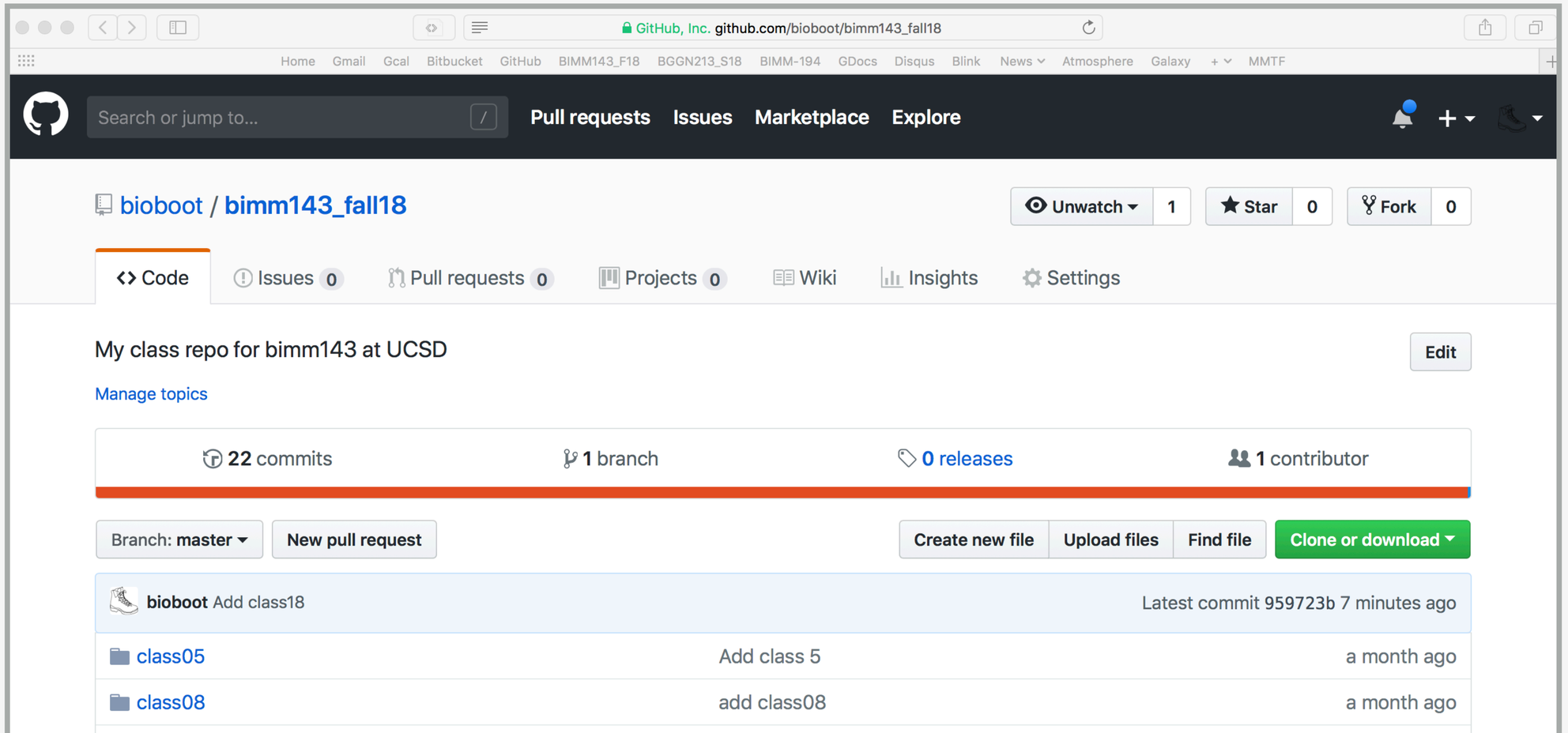
Class 13 - Genome Informatics and High Throughput Sequencing (NGS, RNA-Seq, and FastQC)

Class 14 - Transcriptomics and RNA-Seq Analysis

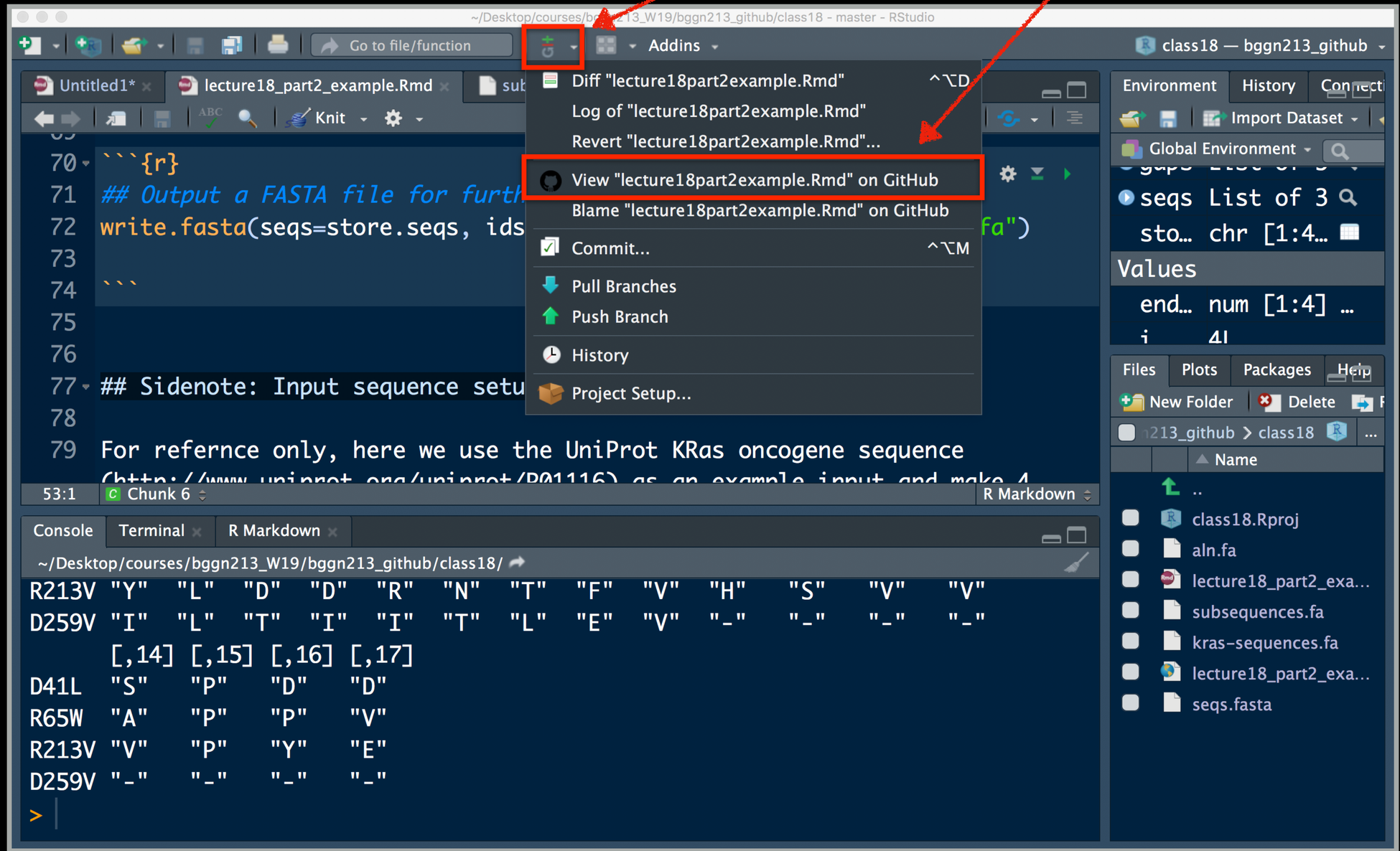
In your web browser navigate to your GitHub class repository < https://github.com/ >

Side-note:
To find the link to your GitHub repository from RStudio, open one of your past class projects and in the terminal type:

git remote -v



Or for a given GitHub tracked file click GIT icon and "VIEW on GITHUB"

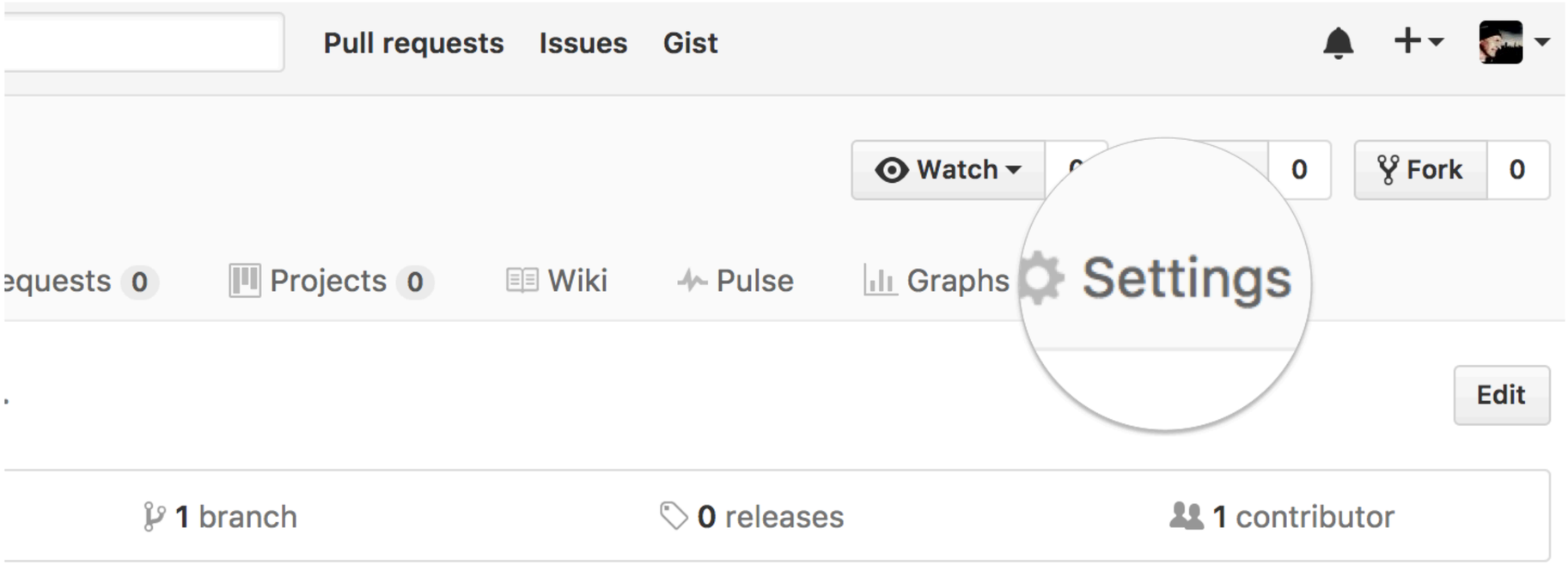


1

Repository Settings

Head over to your GitHub class repository (where you are “pushing” all your class work)

Click on the Settings tab.



2

Theme chooser

Scroll down to the **GitHub Pages** section. ~~Press **Choose a theme**.~~
And set the Source to “main branch"

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. Learn more.

None ▾ Save

Theme chooser

Select a theme to build your site with a Jekyll theme using the `master branch`. Learn more.

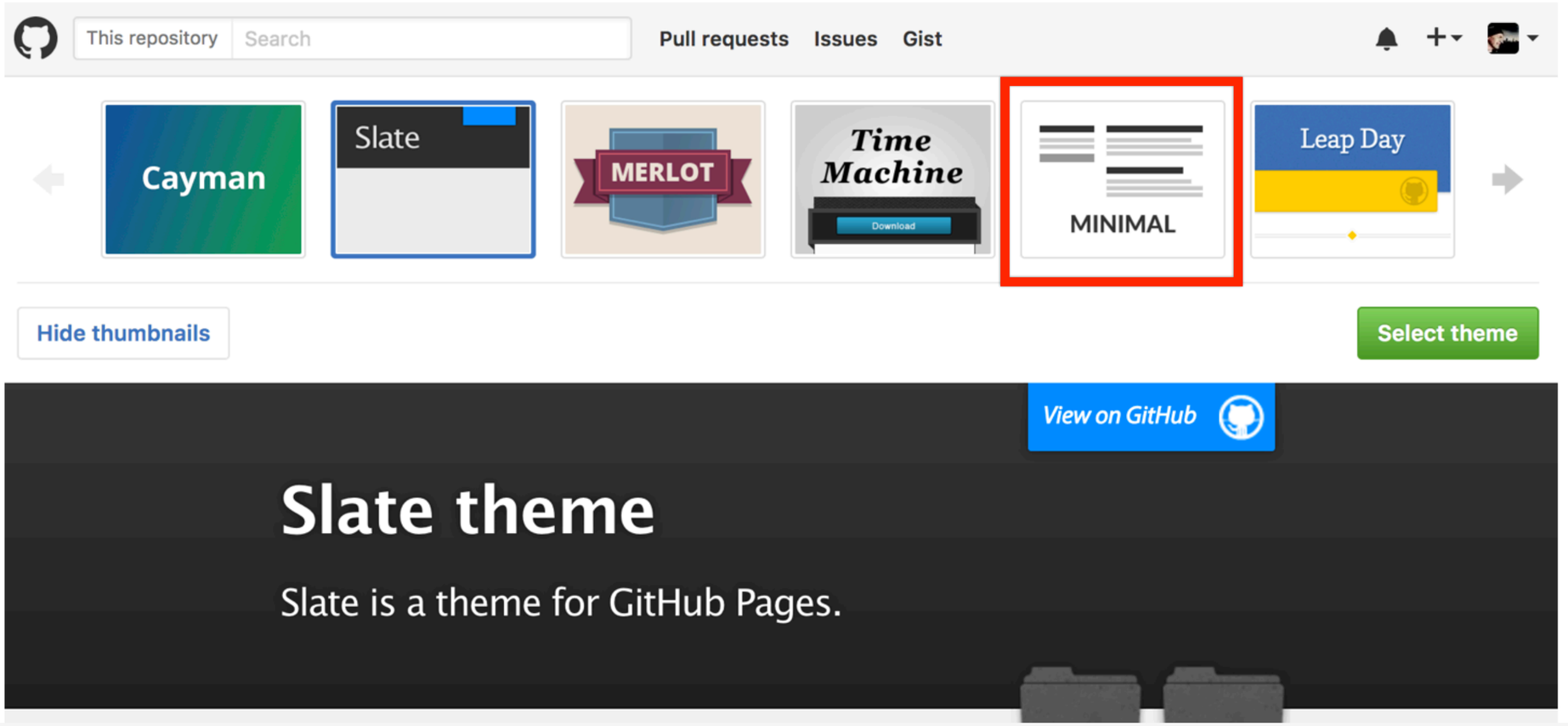
Choose a theme

3

Pick a theme

Choose one of the themes from the carousel at the top.

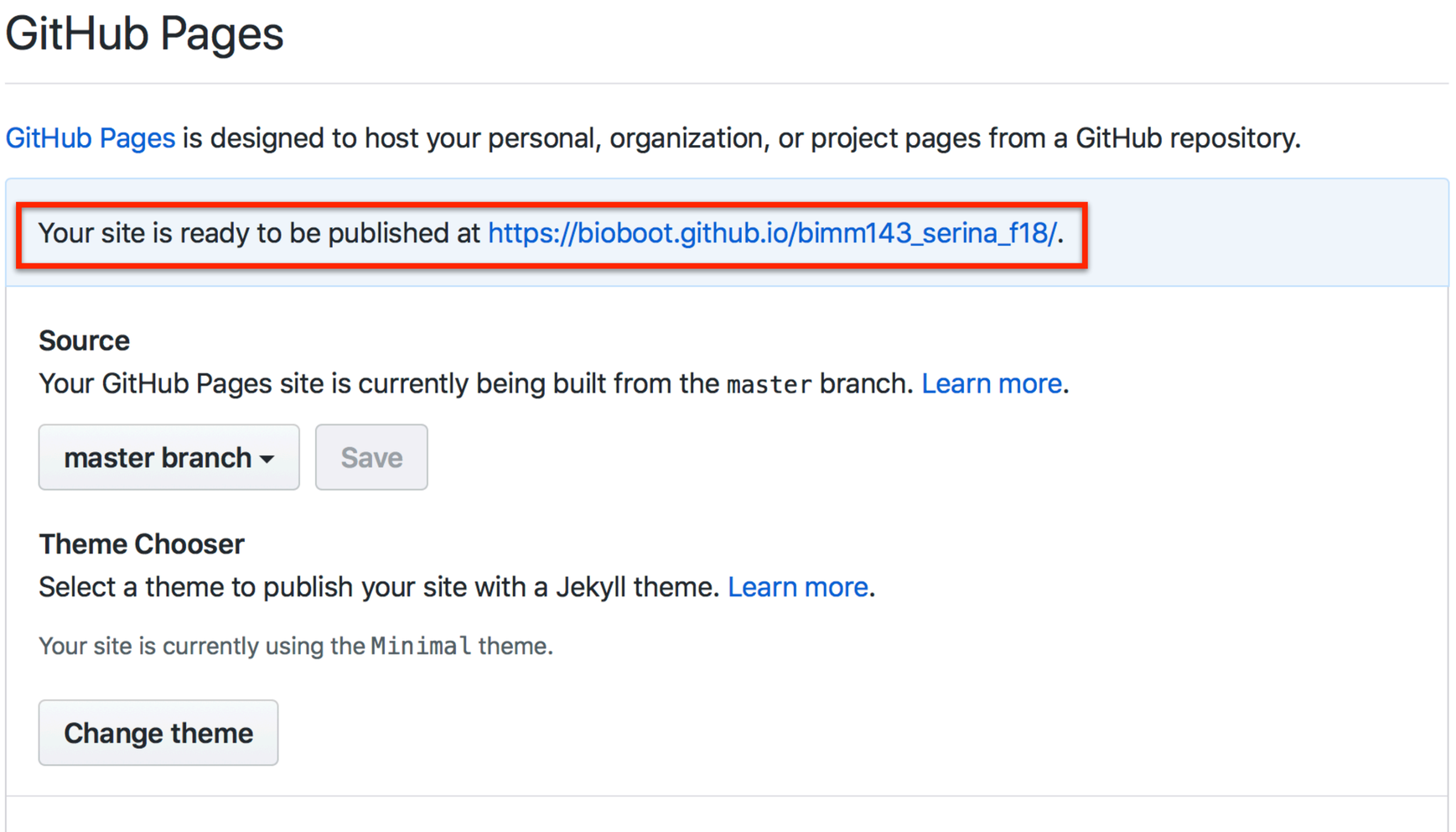
When you're done, click **Select theme** on the right.



4

Side-note:

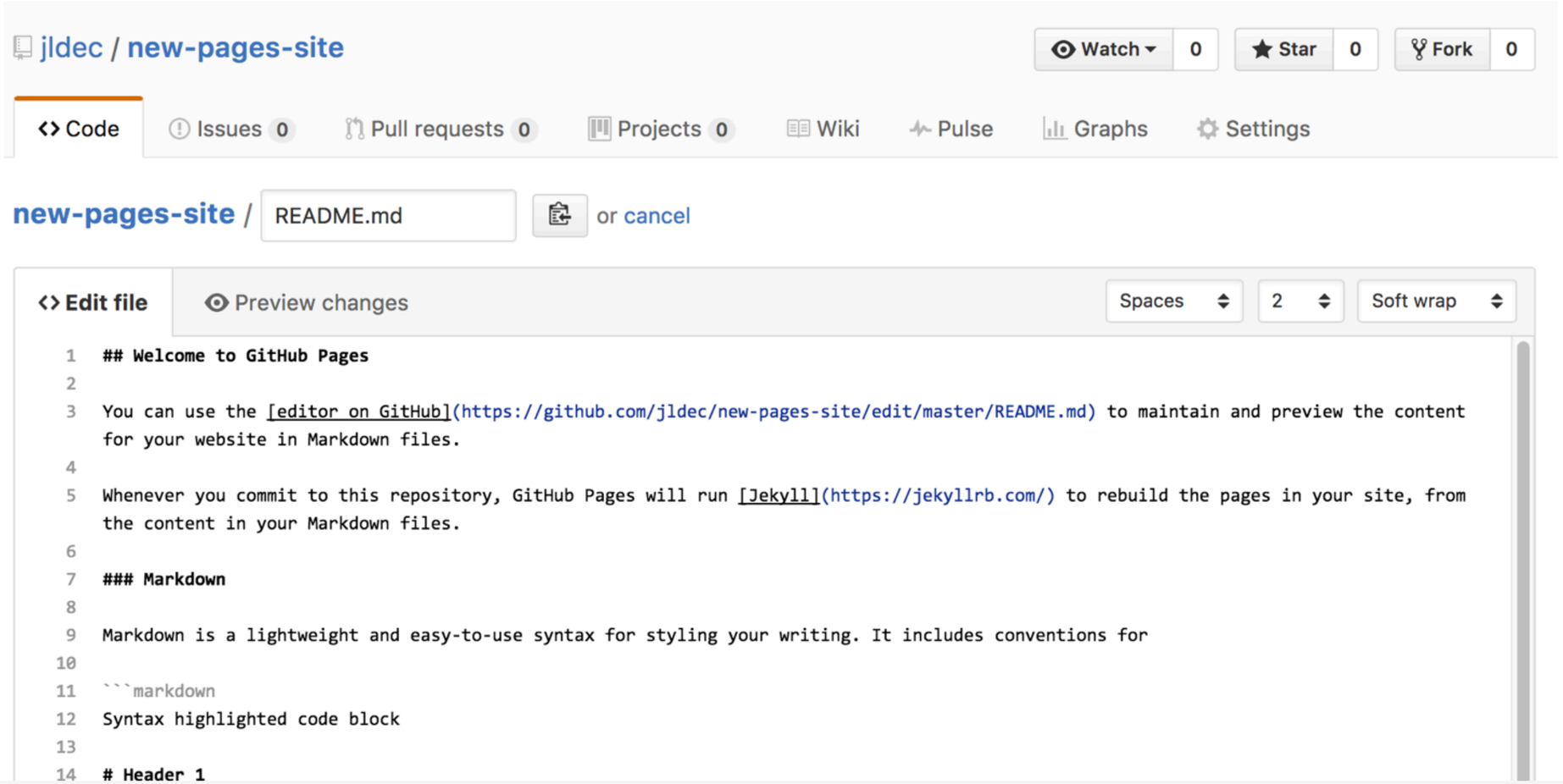
Scroll down again to the GitHub Pages section to find the link to your new website.
Open this link in a New Tab of your browser:



4

Edit content

Back on the repository main page use the GitHub online editor to add content. In particular, add links to each classes .MD file



5

Commit

Enter a commit comment and click on **Commit changes** below the editor.

```
35  ### Support or Contact
36
37  Having trouble with Pages? Check out our [documentation](https://help.github.com/categories/gi
    (https://github.com/contact) and we'll help you sort it out.
38
```

Commit changes

Add content to new pages site

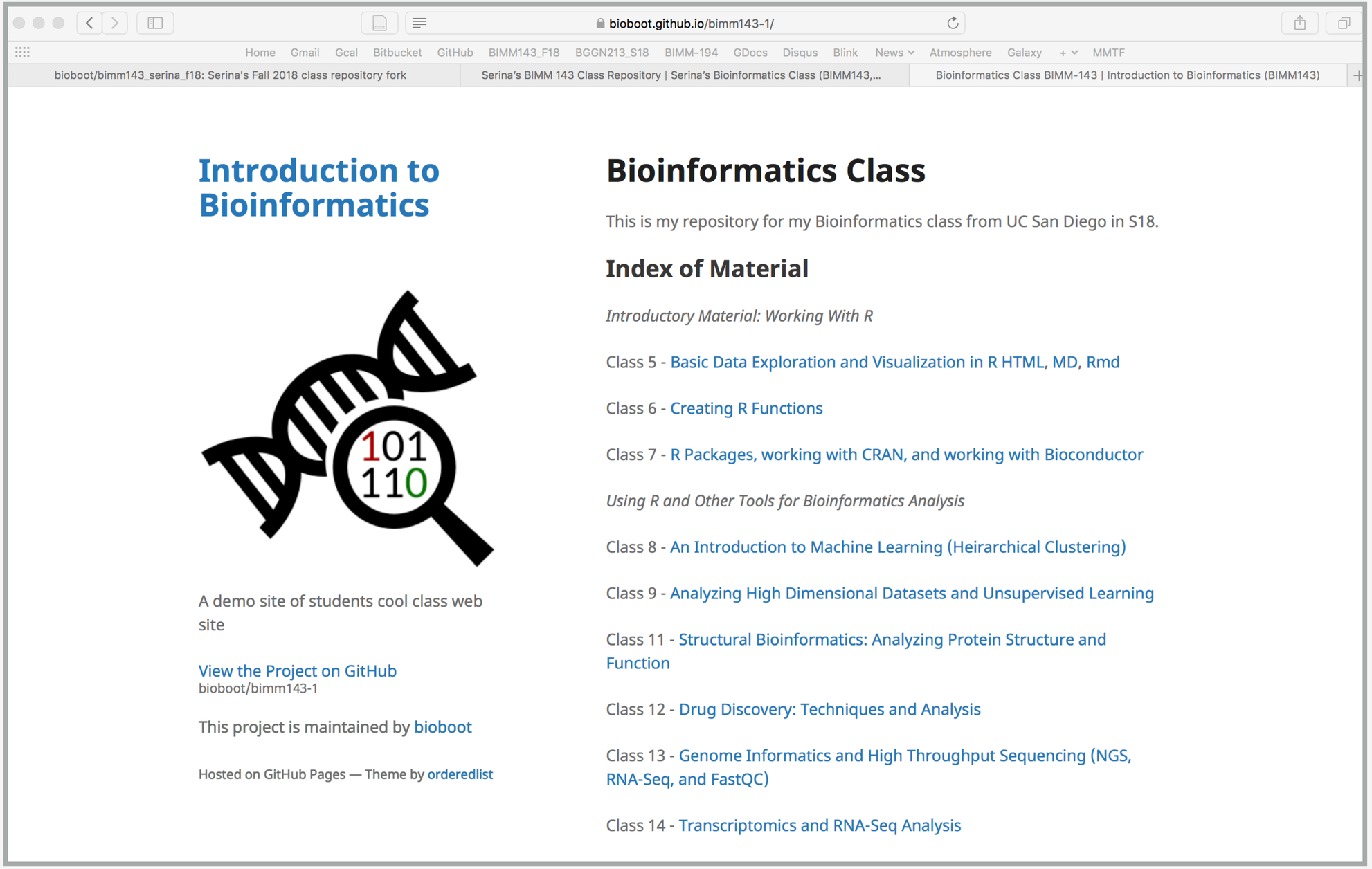
Add an optional extended description...

Commit directly to the `master` branch.

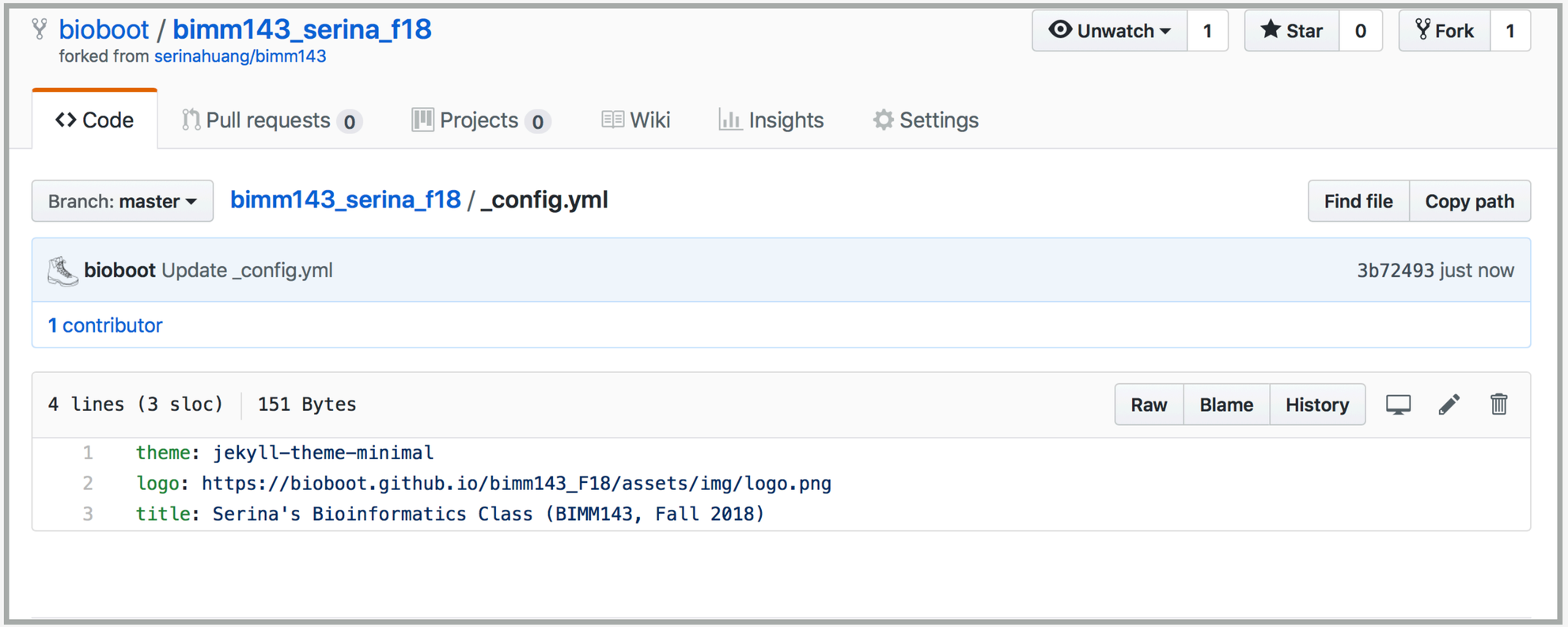
6

…and you're done!

Fire up a browser and go to **http://*username*.github.io/*repository***.



Here I: (1) forked Serina's Repo, (2) Chose the "minimal" theme, (3) Edited _config.yml (adding logo and title)



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https://bioboot.github.io/bggn213/

Foundations of Bioinformatics Class S18

A demo site of students cool class work portfolio

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bioboot/bggn213

BGGN213

This is my classwork from BGGN213 at UC San Diego (S18). The main class homepage is here

- **Class05**: Data Visualization in R (for other self contained formats see HTML, MD and R).
- Class06: Why, when and how of writing your own R functions
- Class07: Bioinformatics R packages from CRAN and BioConductor
- **Class08**: Machine Learning for Bioinformatics 1
- **Class09**: Machine learning project
- Etc.

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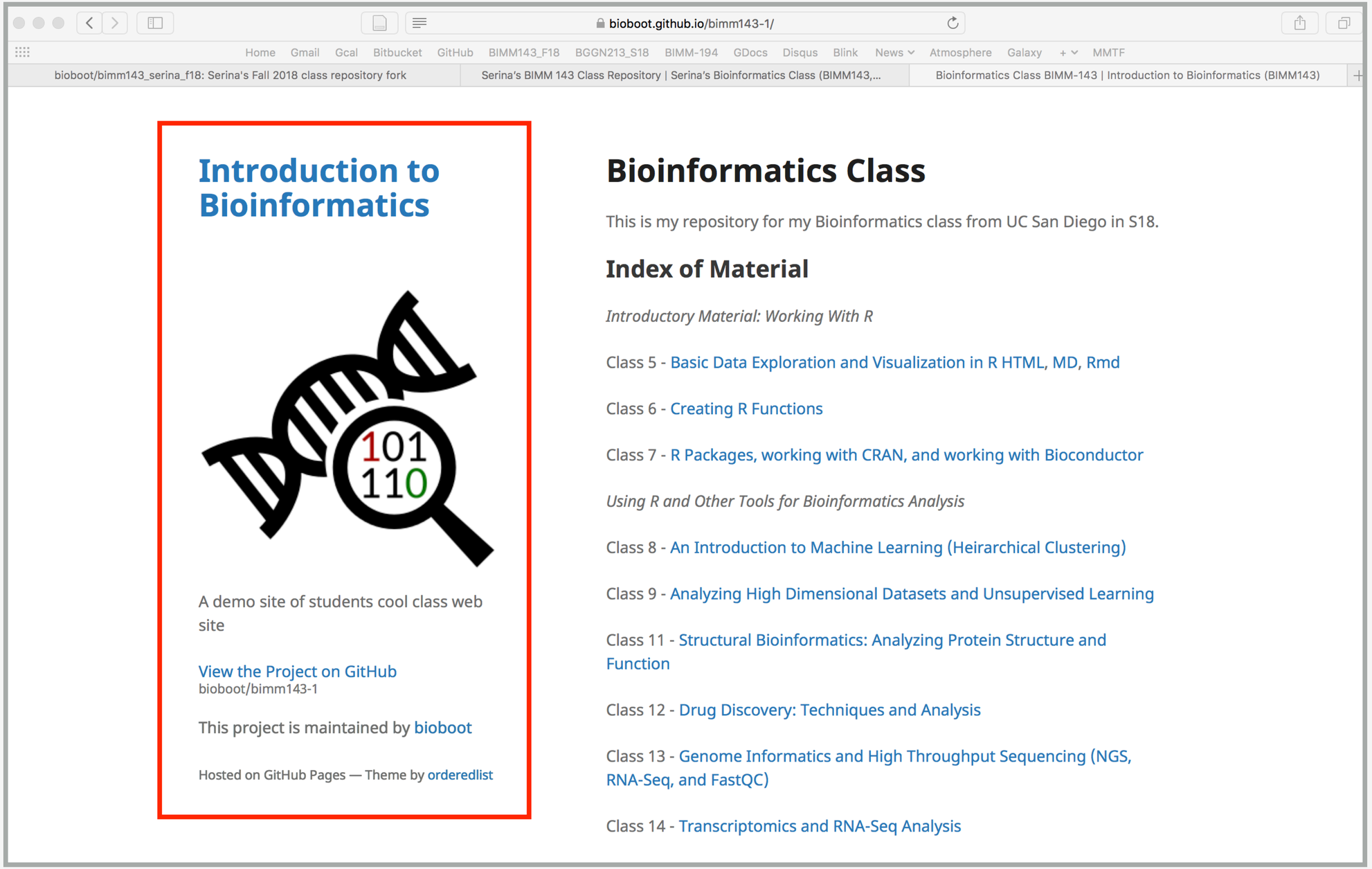
https://bioboot.github.io/tmp_test/



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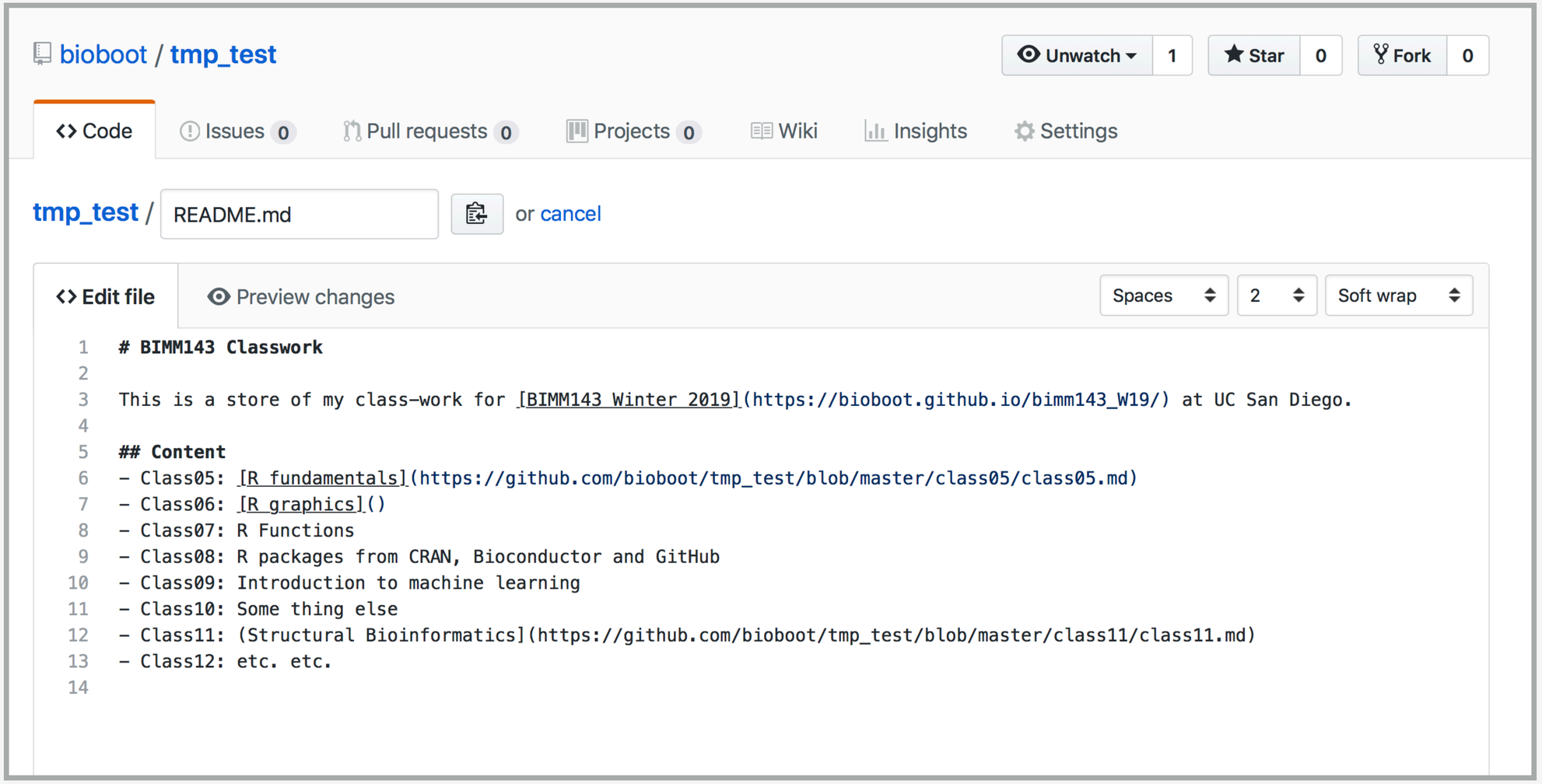

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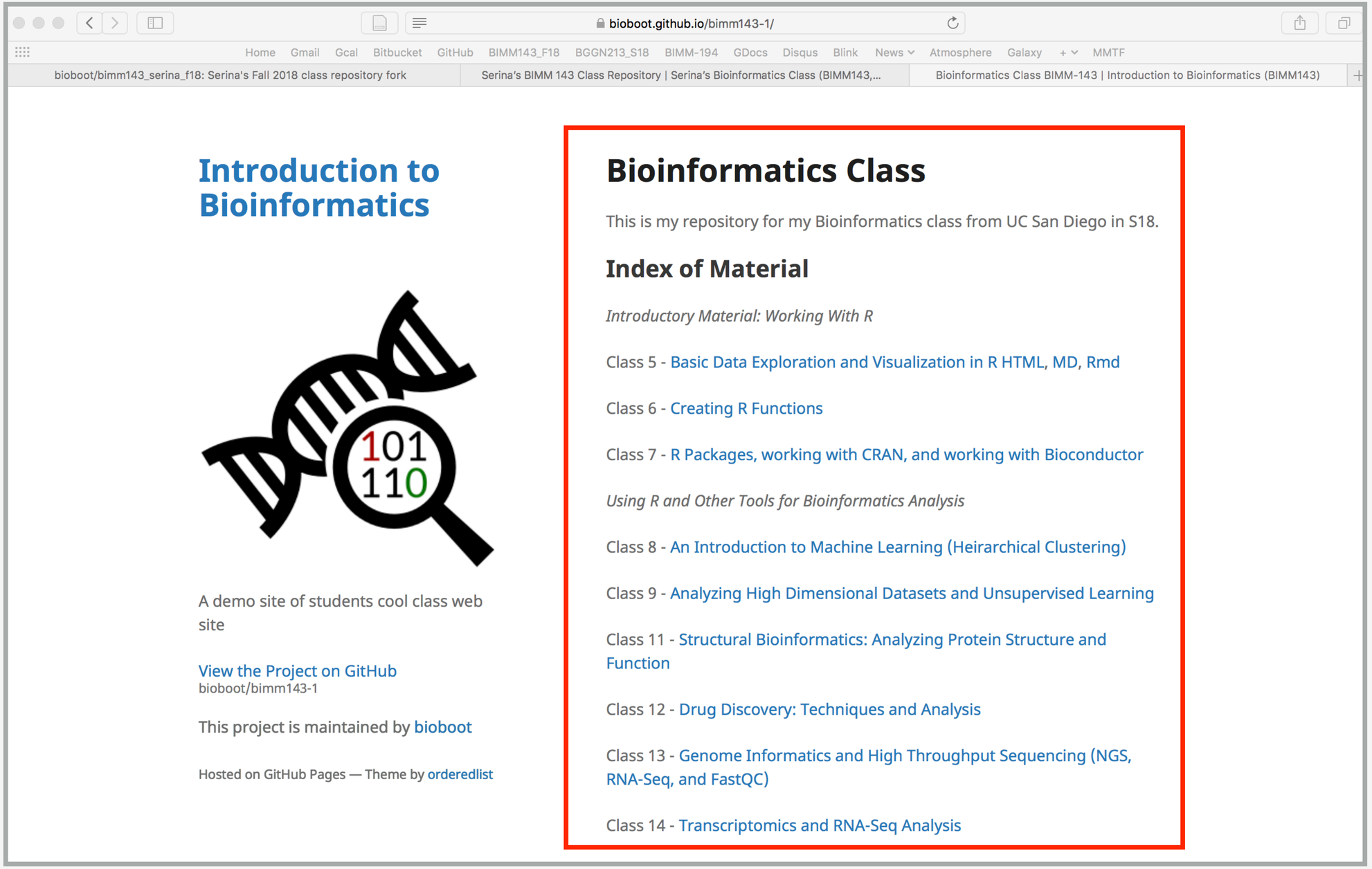

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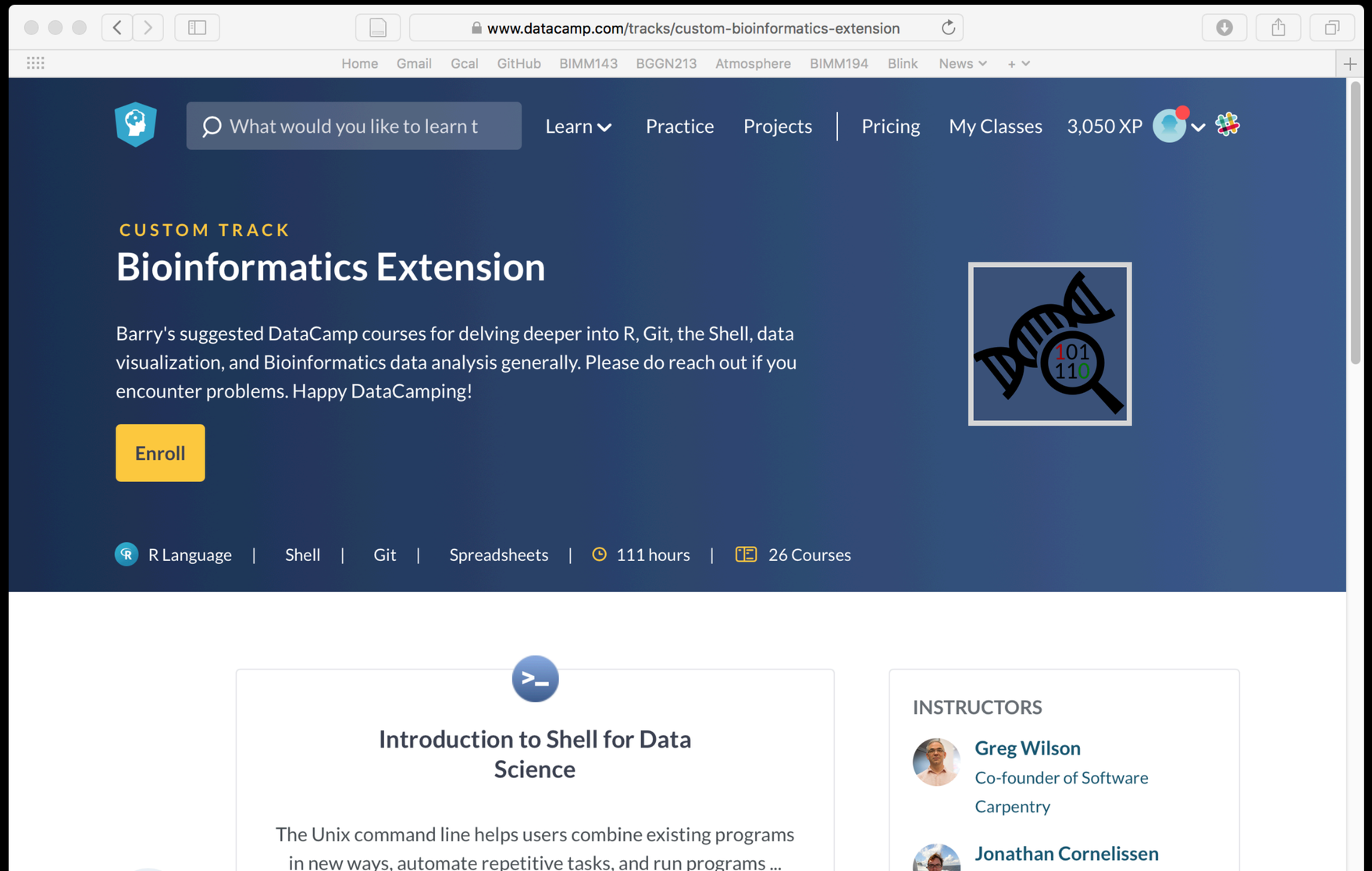
Going Further With DataCamp

https://bioboot.github.io/bimm143_F19/class-material/datacamp_extras.pdf



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