



BIMM 143

Course Summary & GitHub Portfolio

Class 20

Marcos Díaz-Gay
UC San Diego

https://marcos-diazg.github.io/BIMM143_SP23/

Today's Menu

- Summary of major learning goals,
- Course discussion and feedback (https://board.net/p/BIMM143_SP23_DiazGay)
- 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

Today's Menu

- Summary of major learning goals,
- Course discussion and feedback (https://board.net/p/BIMM143_SP23_DiazGay)
- 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



https://bioboot.github.io/bimm143_F22/class-material/BIMM143_exam_guidlines.pdf

The screenshot shows a web browser window with the URL https://bioboot.github.io/bimm143_S18/class-material/BIMM143_exam_guidlines.pdf in the address bar. The page content is a PDF document titled "BIMM-143: INTRODUCTION TO BIOINFORMATICS" with the URL <http://thegrantlab.org/bimm143>. Below the title, there is a section titled "Preparing for the Final Exam". The text discusses the final exam format, point distribution, and the exclusion of specific lecture material.

BIMM-143: INTRODUCTION TO BIOINFORMATICS
<http://thegrantlab.org/bimm143>

Preparing for the Final Exam

Overview: The final exam for BIMM-143 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

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

Q2. Should this course be offered again? Still in-person or fully remotely?

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 Canvas 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 the instructional team?

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 homeworks, and assignments)

Q9. Any other comments you would like to share?

EtherPad Version: https://board.net/p/BIMM143_SP23_DiazGay

Form Version: <https://forms.gle/phWPQtPpknDgoCMa6>

Thank you very much!

Bonus: Bioinformatics & Genomics in Industry Live Stream 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

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 \(NGS, RNA-Seq, and FastQC\)](#)

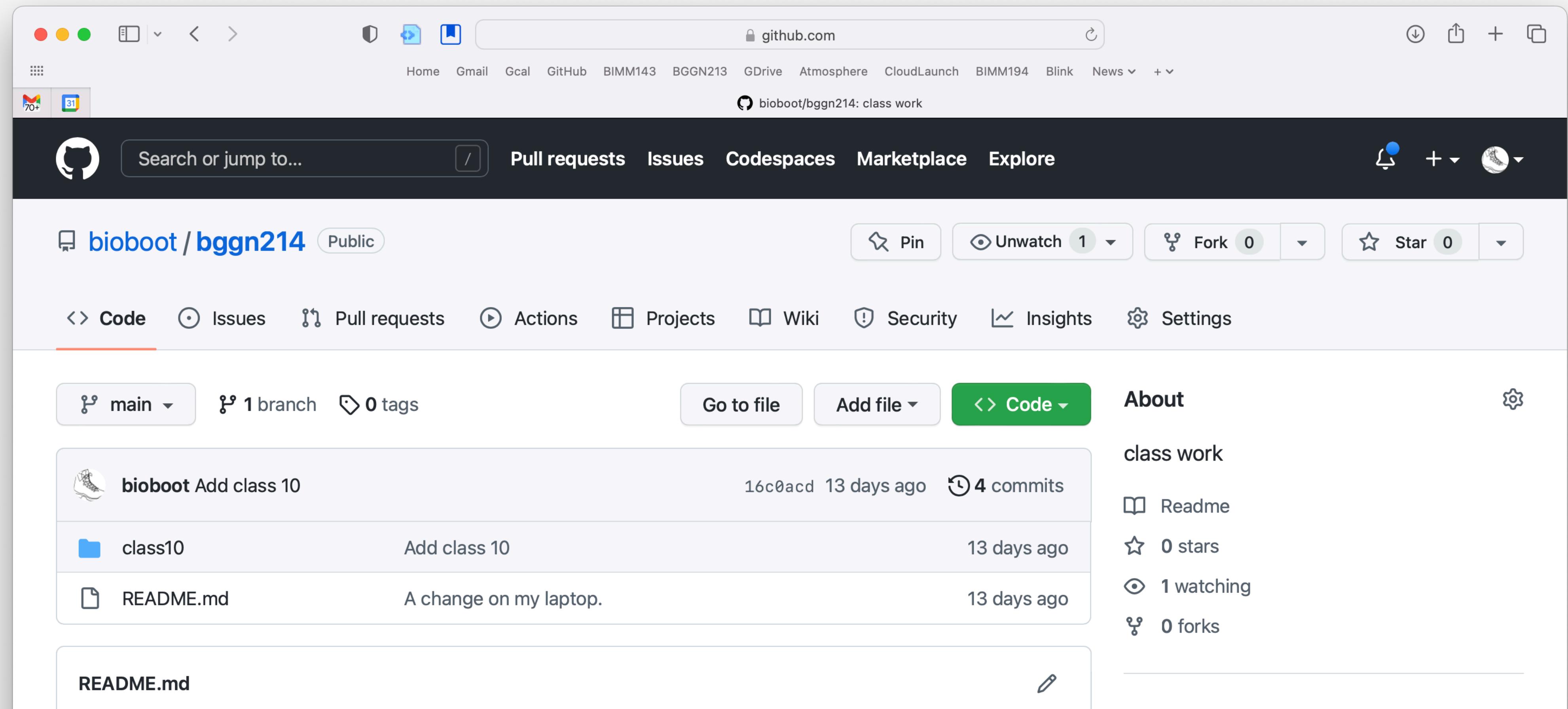
Class 14 - [Transcriptomics and RNA-Seq Analysis](#)

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

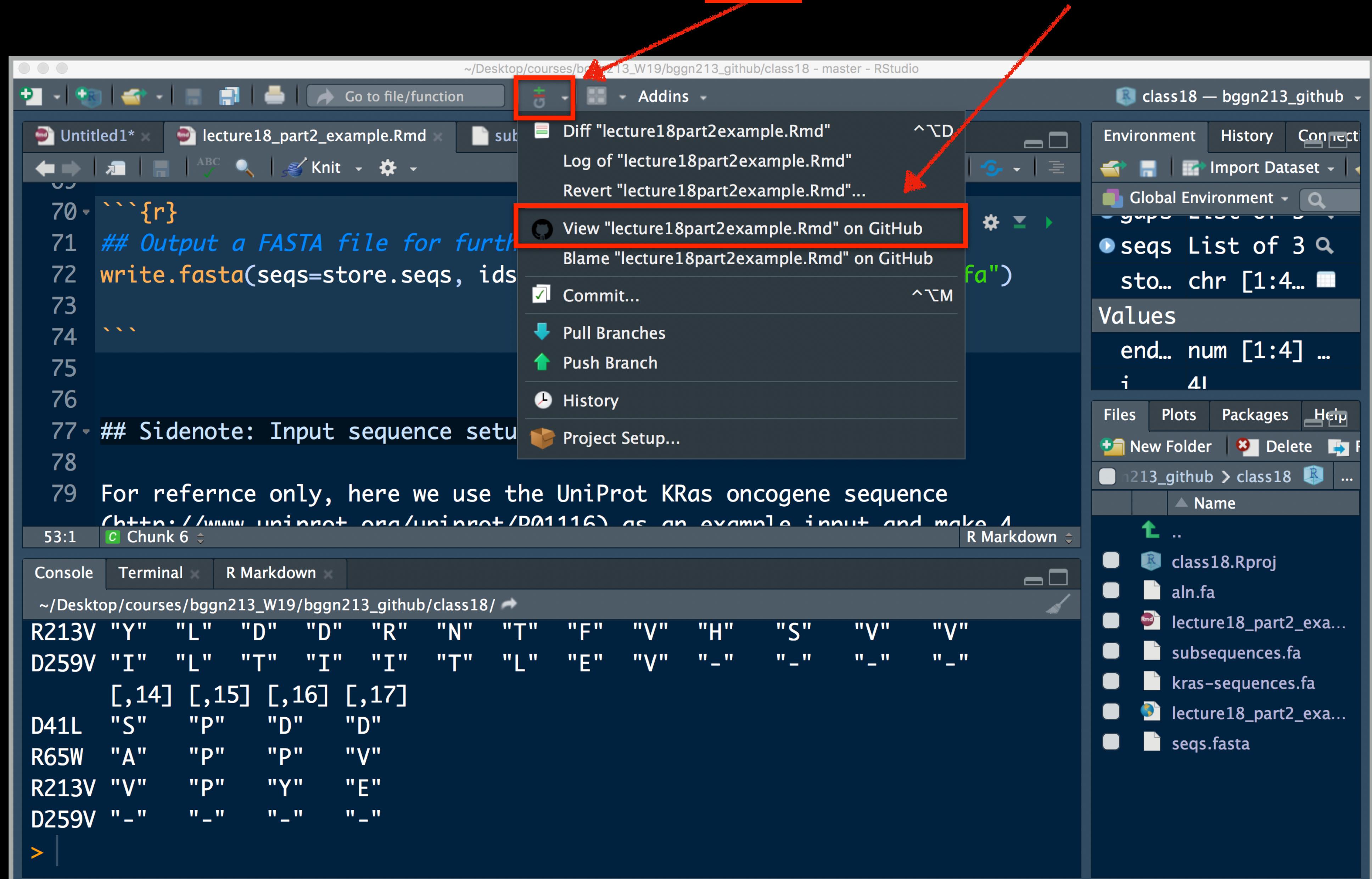
Side-note:

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"

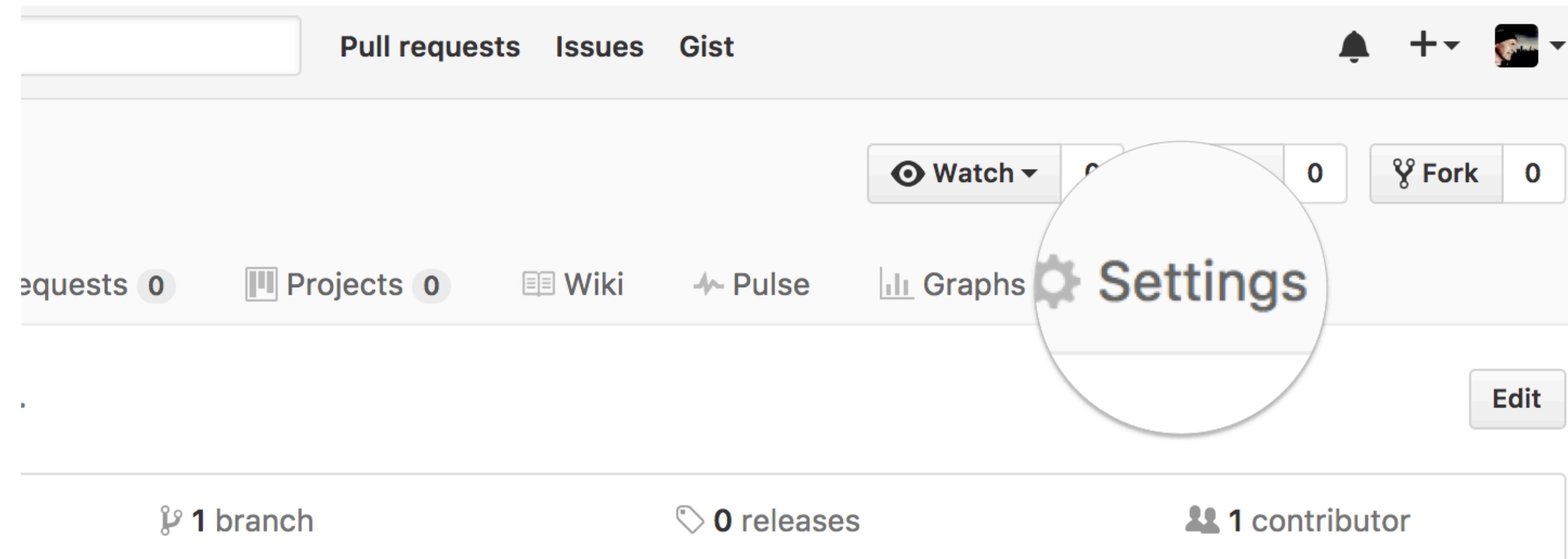


1

Repository Settings

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

Click on the **Settings** tab.



Theme chooser

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

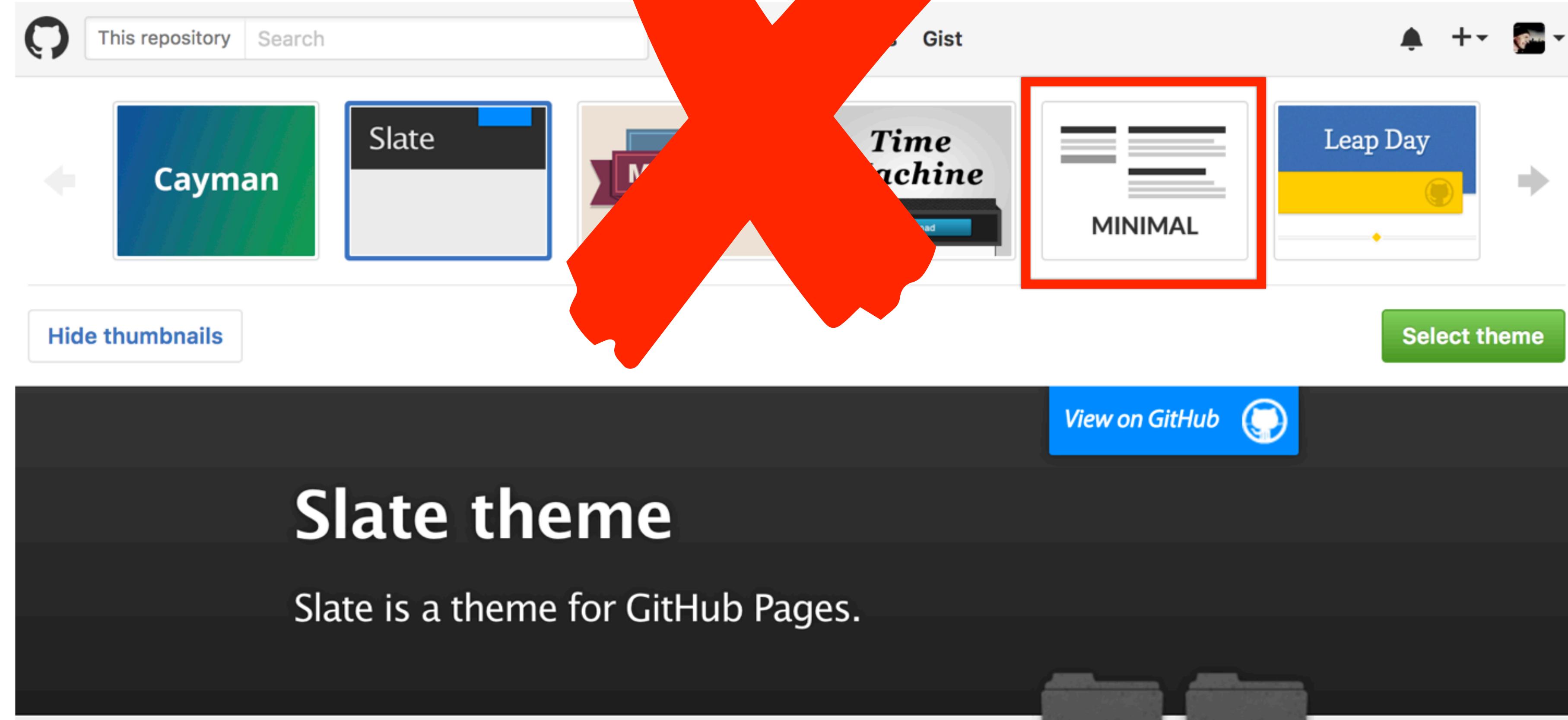
The screenshot shows the GitHub repository settings page for a repository named "luisabreu/Portfolio". The left sidebar lists various settings categories: General, Access, Collaborators, Moderation options, Code and automation, Branches, Tags, Actions, Webhooks, Environments, Codespaces, and Pages. The "Pages" option is highlighted with a red box. The main content area is titled "GitHub Pages" and contains the following information:

- GitHub Pages**: A brief description stating "GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository."
- Build and deployment**: A section under "Code and automation" with a "Source" dropdown menu set to "Deploy from a branch".
- Branch**: A note stating "GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository." with a "Learn more" link.
- Source selection buttons**: Buttons for "main" (with a red box around it), "/ (root)", and "Save".
- Private publishing option**: A callout box with an icon showing a document and lock, stating "Publish privately to people with read access to this repository" and "Try risk-free for 30 days using a GitHub Enterprise organization, or learn more about changing the visibility of your GitHub Pages site." with a close button.

Pick a theme

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

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



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:**

GitHub Pages

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

Your site is ready to be published at https://bioboot.github.io/bimm143_serina_f18/.

Source

Your GitHub Pages site is currently being built from the `master` branch. [Learn more.](#)

[master branch ▾](#)

[Save](#)

Theme Chooser

Select a theme to publish your site with a Jekyll theme. [Learn more.](#)

Your site is currently using the Minimal theme.

[Change theme](#)

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**

The screenshot shows the GitHub repository interface for 'jldec / new-pages-site'. The top navigation bar includes the repository name, a 'Watch' button (0), a 'Star' button (0), and a 'Fork' button (0). Below the navigation bar are links for 'Issues 0', 'Pull requests 0', 'Projects 0', 'Wiki', 'Pulse', 'Graphs', and 'Settings'. The main content area shows the 'new-pages-site / README.md' file. The file content is as follows:

```
1 ## Welcome to GitHub Pages
2
3 You can use the \[editor on GitHub\](https://github.com/jldec/new-pages-site/edit/master/README.md) to maintain and preview the content
for your website in Markdown files.
4
5 Whenever you commit to this repository, GitHub Pages will run \[Jekyll\](https://jekyllrb.com/) to rebuild the pages in your site, from
the content in your Markdown files.
6
7 #### Markdown
8
9 Markdown is a lightweight and easy-to-use syntax for styling your writing. It includes conventions for
10
11 ````markdown
12 Syntax highlighted code block
13
14 # Header 1
```

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 \[documentation\]\(https://help.github.com/categories/gi\)  
\(\) and we'll help you sort it out.  
38
```



Commit changes

Add content to new pages site

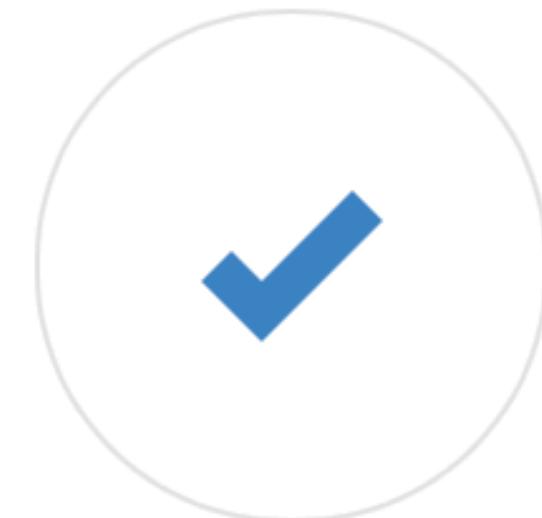
Add an optional extended description...

Commit directly to the `master` branch.

6

...and you're done!

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



The screenshot shows a web browser window with the URL bioboot.github.io/bimm143-1/ in the address bar. The page content is as follows:

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](#)

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

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](#)

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

bioboot / bimm143_serina_f18
forked from serinahuang/bimm143

Unwatch 1 Star 0 Fork 1

Code Pull requests 0 Projects 0 Wiki Insights Settings

Branch: master bimm143_serina_f18 / _config.yml Find file Copy path

bioboot Update _config.yml 3b72493 just now

1 contributor

4 lines (3 sloc) 151 Bytes Raw Blame History

```
1 theme: jekyll-theme-minimal
2 logo: https://bioboot.github.io/bimm143_F18/assets/img/logo.png
3 title: Serina's Bioinformatics Class (BIMM143, Fall 2018)
```

Here I: (1) Chose the “minimal” theme, (3) Edited config.yml (adding logo and title), (4) Edited README.md

Here I: (1) Chose the “minimal” theme, (3) Edited _config.yml (adding logo and title), (4) Edited README.md

The screenshot shows a web browser window with the URL `bioboot.github.io/bimm143-1/` in the address bar. The page is a GitHub Pages site for a Bioinformatics Class repository. The header contains links to Home, Gmail, Goal, Bitbucket, GitHub, BIMM143_F18, BGNN213_S18, BIMM-194, GDocs, Disqus, Blink, News, Atmosphere, Galaxy, and MMTF. The sidebar on the left has a red border and contains the following text:

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](#)

The screenshot shows a GitHub repository page for 'bioboot / tmp_test'. The repository has 1 unwatched star and 0 forks. The 'Code' tab is selected. The README.md file contains the following content:

```
1 # BIMM143 Classwork
2
3 This is a store of my class-work for [BIMM143 Winter 2019](https://bioboot.github.io/bimm143_W19/) at UC San Diego.
4
5 ## Content
6 - Class05: [R fundamentals](https://github.com/bioboot/tmp_test/blob/master/class05/class05.md)
7 - Class06: [R graphics]()
8 - Class07: R Functions
9 - Class08: R packages from CRAN, Bioconductor and GitHub
10 - Class09: Introduction to machine learning
11 - Class10: Some thing else
12 - Class11: (Structural Bioinformatics](https://github.com/bioboot/tmp_test/blob/master/class11/class11.md)
13 - Class12: etc. etc.
14
```

Here I: (1) Chose the “minimal” theme, (3) Edited _config.yml (adding logo and title), (4) Edited README.md

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](#)

Here I: (1) Chose the “minimal” theme, (3) Edited `_config.yml` (adding logo and title), (4) Edited `README.md`

Thank you very much!

Please do fill out your CAPs evaluation ([Link!](#)) if you get a chance.
It is important to the courses we offer in the future and how we teach them!

Thank you very much!

Please do fill out your CAPs evaluation ([Link!](#)) if you get a chance.
It is important to the courses we offer in the future and how we teach them!

Post to GradeScope your [GitHub Pages](#) portfolio [URL](#) to GradeScope!

Going Further With DataCamp

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

The screenshot shows a web browser window for the DataCamp website (www.datacamp.com/tracks/custom-bioinformatics-extension). The page title is "CUSTOM TRACK Bioinformatics Extension". The main content area describes Barry's suggested DataCamp courses for delving deeper into R, Git, the Shell, data visualization, and Bioinformatics data analysis generally. It includes a yellow "Enroll" button, a DNA helix icon with a magnifying glass over binary code (101 110), and a summary of 111 hours and 26 Courses across R Language, Shell, Git, and Spreadsheets.

CUSTOM TRACK
Bioinformatics Extension

Barry's suggested DataCamp courses for delving deeper into R, Git, the Shell, data visualization, and Bioinformatics data analysis generally. Please do reach out if you encounter problems. Happy DataCamping!

Enroll

R Language | Shell | Git | Spreadsheets | 111 hours | 26 Courses

Introduction to Shell for Data Science

The Unix command line helps users combine existing programs in new ways, automate repetitive tasks, and run programs ...

INSTRUCTORS

 **Greg Wilson**
Co-founder of Software Carpentry

 **Jonathan Cornelissen**

Bonus: Bioinformatics & Genomics in Industry Live Stream 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.



The End!

https://marcos-diazg.github.io/BIMM143_SP23/



Thank You!

https://marcos-diazg.github.io/BIMM143_SP23/