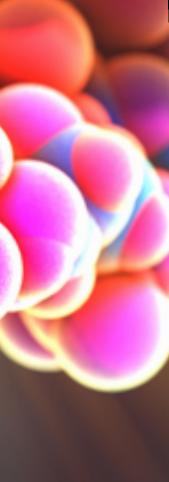
BGGN 213 Course Summary & GitHub Portfolio Class 20

Barry Grant UCSanDiego

http://thegrantlab.org/bggn213



- Summary of major learning goals,
- Course discussion and feedback (<u>https://board.net/p/bggn213_f21</u>)
- 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



- Summary of major learning goals,
- Course discussion and feedback (<u>https://board.net/p/bggn213_f21</u>)
- CAPs evaluation (<u>Link</u>)
- 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



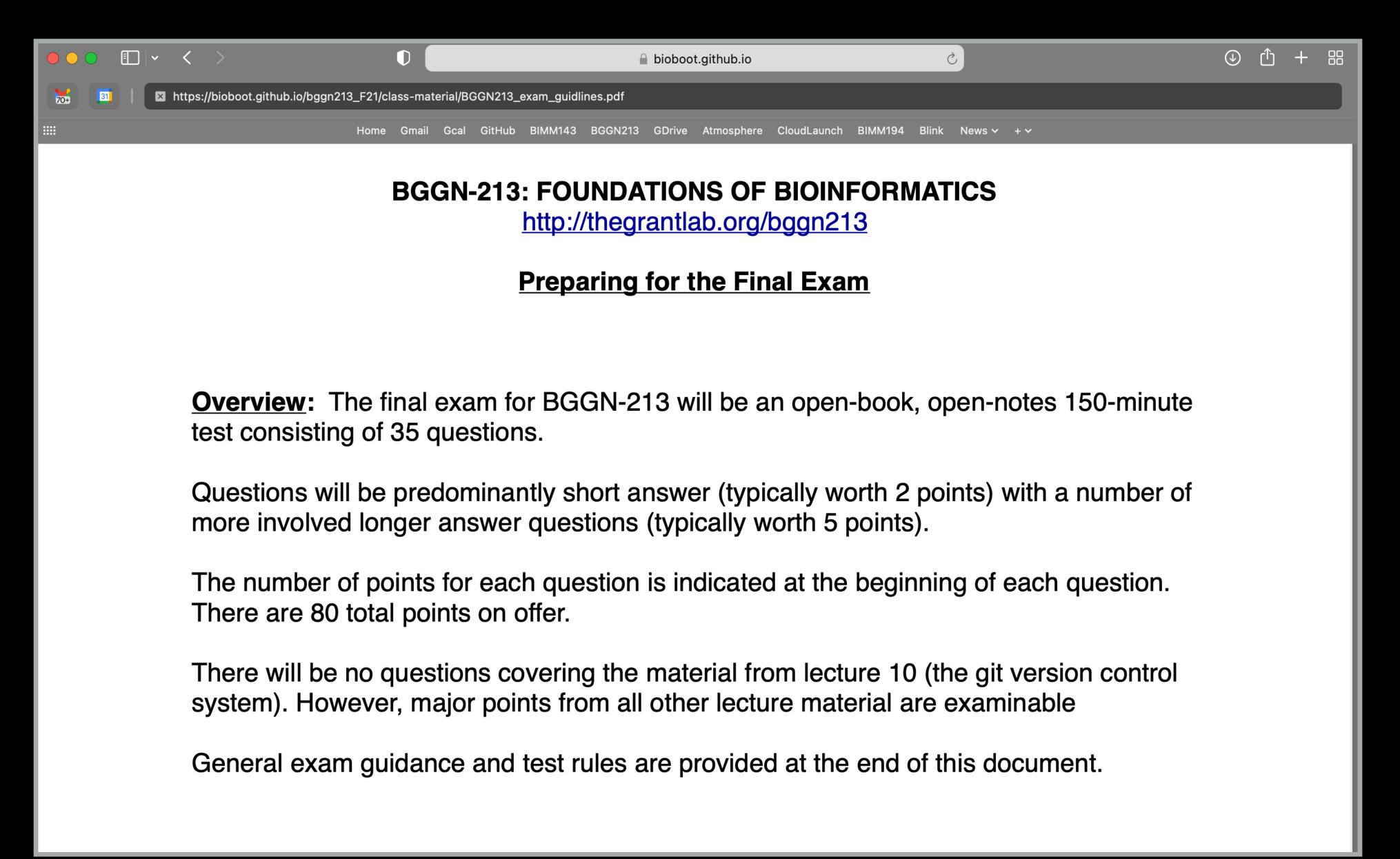


- Summary of major learning goals,
- Course discussion and feedback (<u>https://board.net/p/bggn213_f21</u>)
- CAPs evaluation (Link)
- Project troubleshooting
 - Test structure, guidelines and rules
 - Topics and example questions
 - Exam preparation, discussion and open study
- Polish our GitHub content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





https://bioboot.github.io/bggn213 F21/class-material/BGGN213 exam guidlines.pdf



- 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





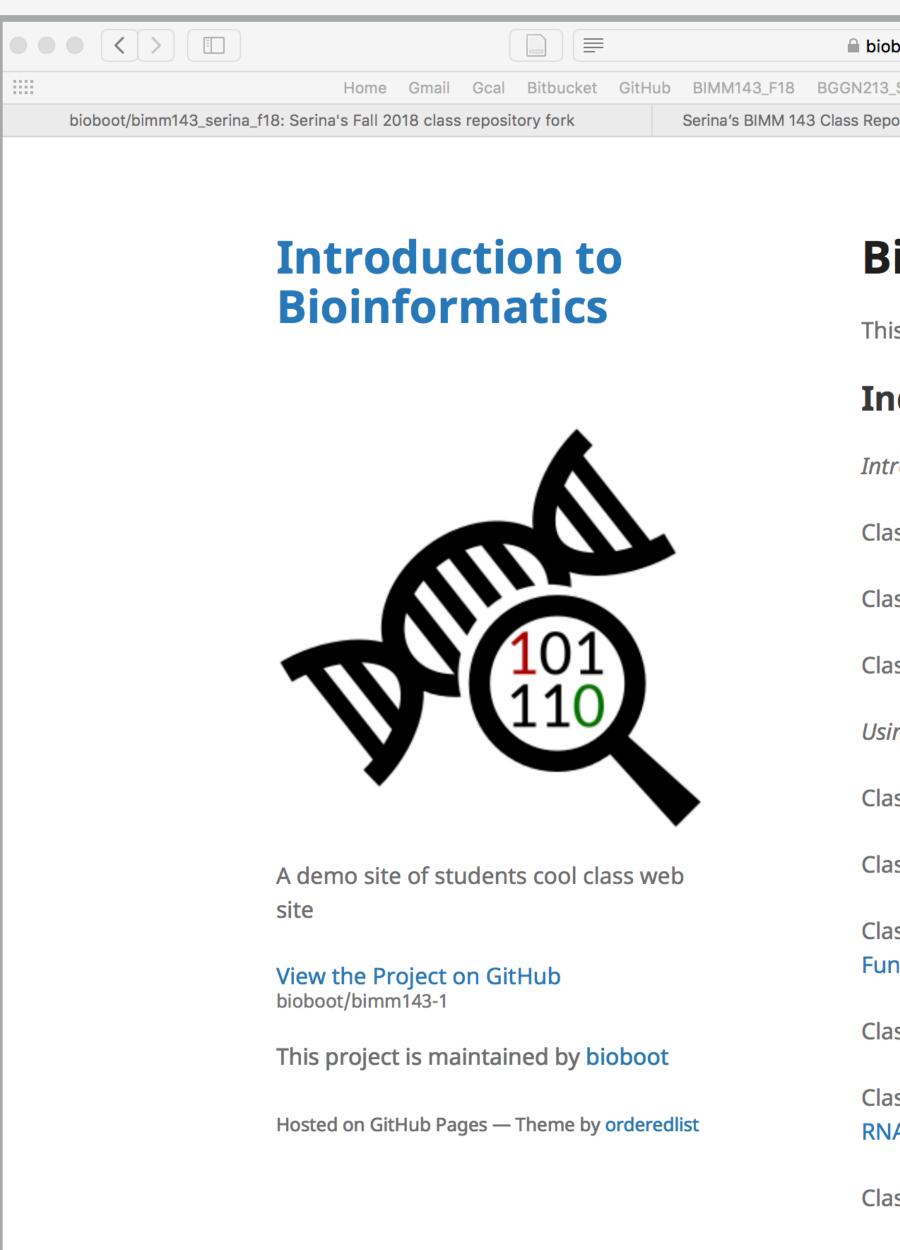
Thank you very much!

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



oboot.github.io/bimm143-1/	
3_S18 BIMM-194 GDocs Disqus Blink News 🗸	Atmosphere Galaxy + V MMTF
pository Serina's Bioinformatics Class (BIMM143,	Bioinformatics Class BIMM-143 Introduction to Bioinformatics (BIMM143)

Bioinformatics Class

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

Index of Material

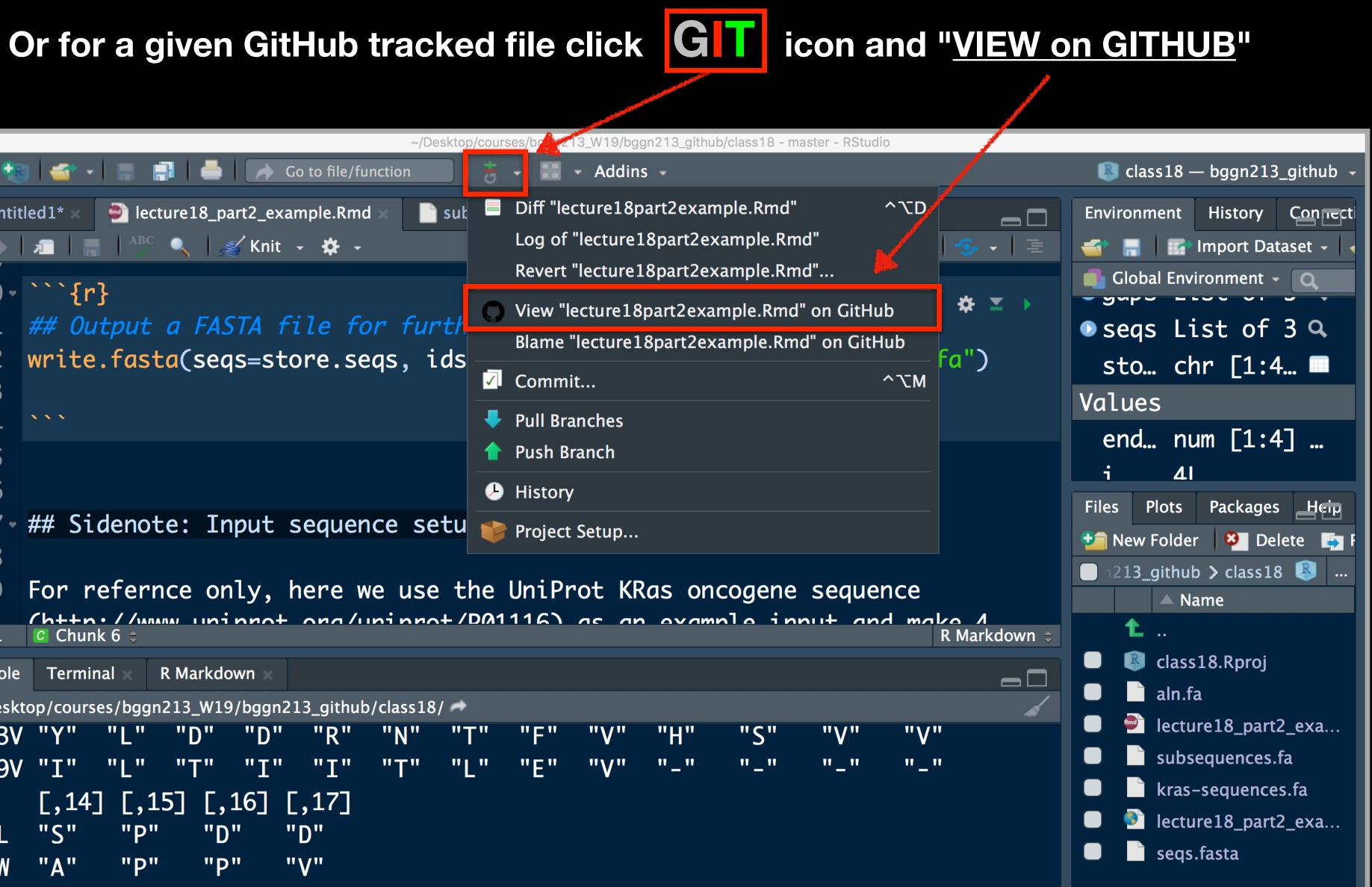
- Introductory Material: Working With R
- Class 5 Basic Data Exploration and Visualization in R HTML, MD, Rmd
- **Class 6 Creating R Functions**
- Class 7 R Packages, working with CRAN, and working with Bioconductor
- Using R and Other Tools for Bioinformatics Analysis
- Class 8 An Introduction to Machine 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

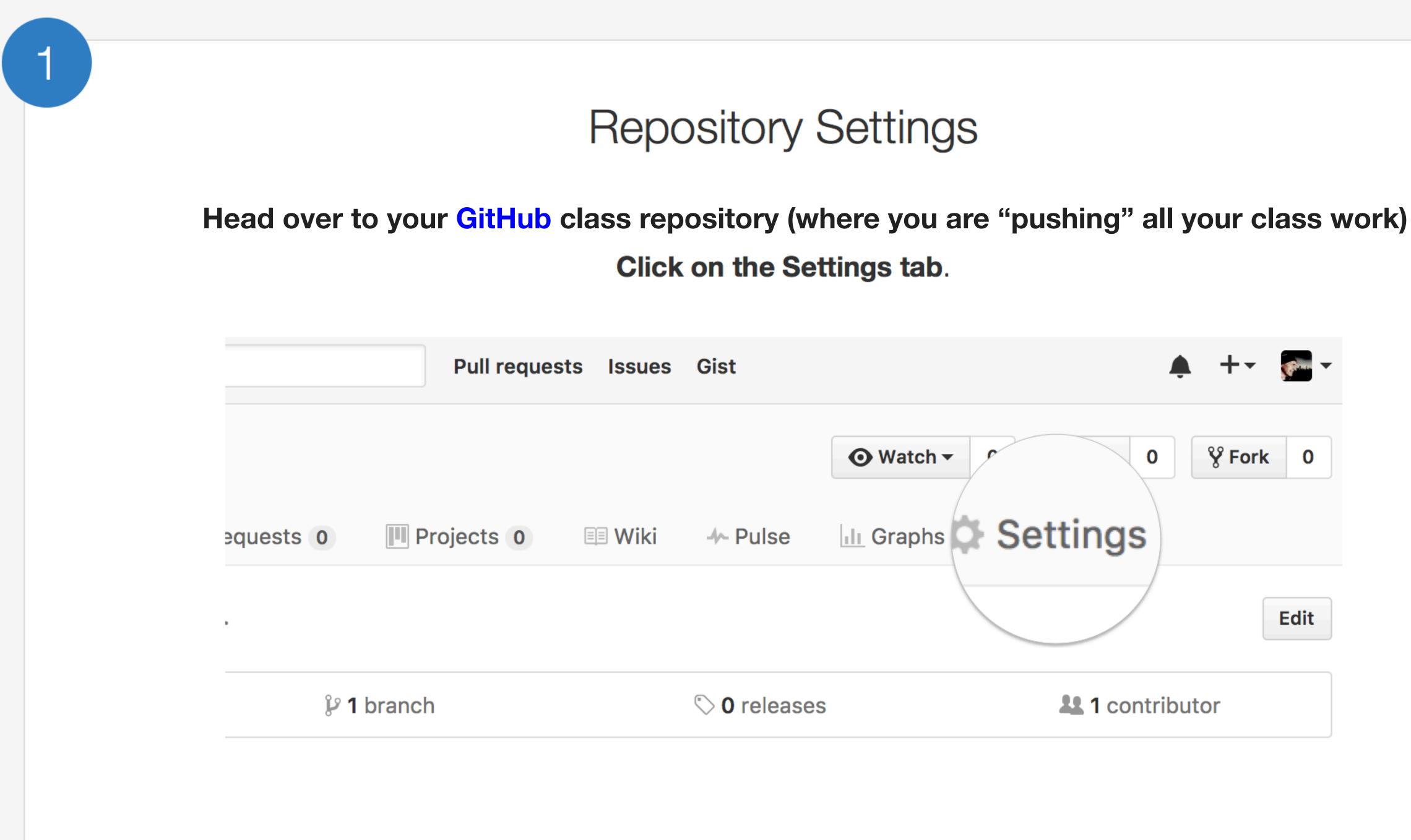
In your web browser navigate to your GitHub class repository < https://github.com/ >

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

pr	projects and in the terminal type:								
	git remote	9 - V							
				ub.com/bioboot/bimm					1 1
Search or jump	Home Gmail p to		requests Issues			News ∽ Atmosphere Gal	axy +	↓ + -	
📮 bioboot /	bimm143_fa	118				O Unwatch →	1 🗙 Star 0	% Fork 0	
<> Code	Issues 0	ן Pull requests 0	Projects 0	💷 Wiki	Insights	Settings			
My class rep Manage topics	o for bimm143 a	at UCSD						Edit	
Ū	22 commits	ļ	1 branch		So release	S	೩ 1 contri	butor	
Branch: mast	ter 🔻 New pull r	equest			Create new	v file Upload files	Find file Clor	ne or download 🔻	
bioboot /	Add class18					Late	est commit 959723	3b 7 minutes ago	
class05			Ad	d class 5				a month ago	
class08			ade	d class08				a month ago	

					~/De	sktop/cour	ses/bo	13 V
1 - 1) 🕣 -	8		Go to file/fu		3		~
📄 Untit	led1* 🗙 🛛	lecture	18_part2_6	example.Rm	d x	sut 🗏	Diff "le	ctu
		_		it - ✿ -			Log of	"leo
70	>>> C 7						Revert	"leo
70 - 71	```{r}		ГАСТА	£:10 £		0	View "l	ecti
71				file fo			Blame '	"lec
72 73	write.	ταςταί	seqs=s	store.se	eqs, L	us 🔽	Commi	it
74	~ ~ ~					-	Pull Bra	ancl
75							Push B	ran
76						<u> </u>	History	,
	## Sid	enote:	Input	sequer	nce se	tu 🕋	, Project	
78				•			Tioject	50
79	For re	fernce	only,	here v	ve use	the	UniPr	'ot
53:1	Ch++n• C Chunk		uninno	+ onali	ininno	+ /D ∩ 1	1167	~
		1	arkdown					
Console	Termina				o/class10	1	_	
R213V			D" "D	n213_githul "R"	"N"	/	"F"	"
D259V	-				"T"	"["	"E"	**
				[,17]	-			
D41L	"S"	"P"	"D"	"D"				
R65W	"A"	"P"	"P"	"V"				
R213V	"V"	"P"	"Y"	"E"				
D259V	"-"	"_"	"_"	"_"				
>								







Theme chooser

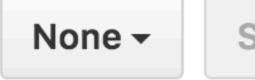
Scroll down to the **GitHub Pages** section. Press **Choose a theme**. And set the Source to "main branch"

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.



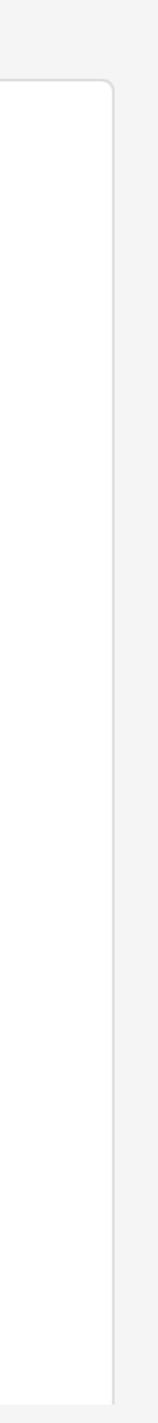
Save

Theme chooser

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

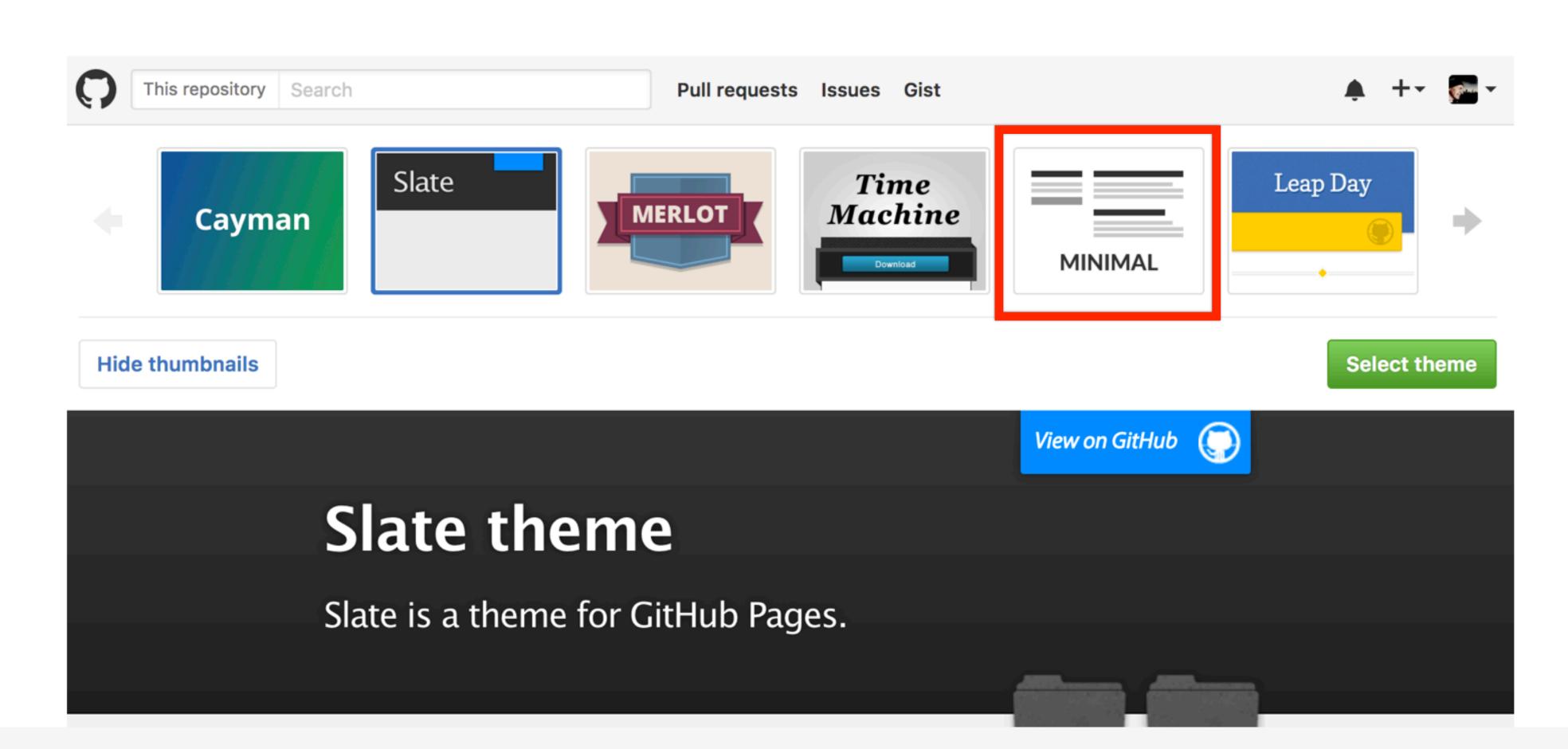
Choose a theme

2



Pick a theme

3



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





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

📮 jldec	c / new-pages-site	O Watch ▼ 0	★ Star	0 % Fork 0
<> Cod	de 🕕 Issues 0 🕅 Pull requests 0 🔲 Projects 0 💷 Wiki 🔸 Pulse	🔟 Graphs 🐇	Settings	
new-p	ages-site / README.md			
<> Edi	t file O Preview changes	Spaces	\$ 2 \$	Soft wrap 🗢
2 3	<pre>## Welcome to GitHub Pages You can use the [editor on GitHub](https://github.com/jldec/new-pages-site/edit/master/REA for your website in Markdown files.</pre>	DME.md) to maintai	in and preview	the content
	Whenever you commit to this repository, GitHub Pages will run [Jekyll](https://jekyllrb.co the content in your Markdown files.	m/) to rebuild the	e pages in your	' site, from
7	### Markdown			
8 9 10	Markdown is a lightweight and easy-to-use syntax for styling your writing. It includes con	ventions for		
11	<pre>```markdown Syntax highlighted code block</pre>			
	# Header 1			

4

Edit content



35	### Support or Contact
36	
37	Having trouble with Pages? Check ou
	<pre>(https://github.com/contact) and we</pre>
38	



5

Commit changes

Add content to new pages site

Add an optional extended description...



06 -

- Commit directly to the master branch.

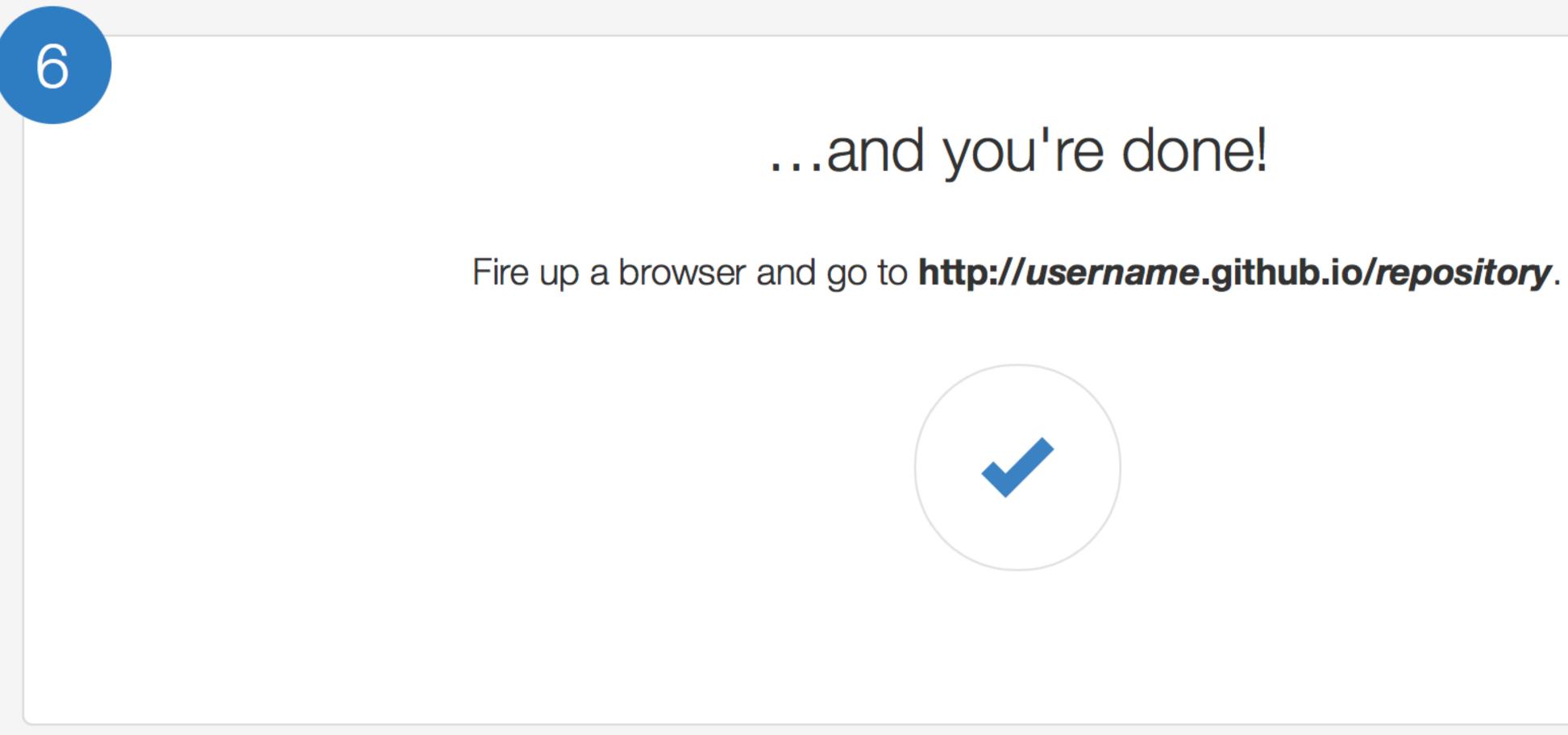
Commit

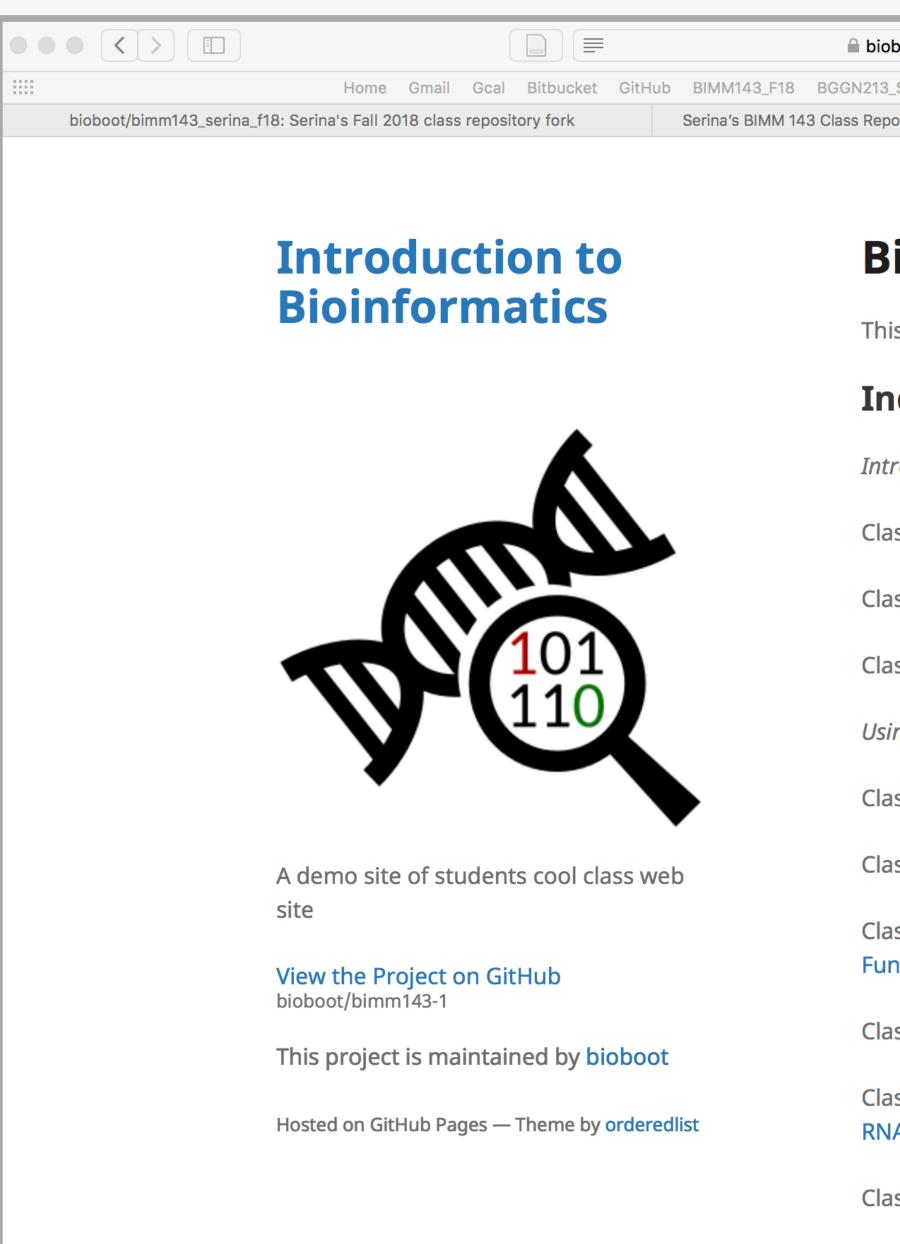
Enter a commit comment and click on **Commit changes** below the editor.

ut our [documentation](https://help.github.com/categories/gi e'll help you sort it out.

....







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

oboot.github.io/bimm143-1/	
3_S18 BIMM-194 GDocs Disqus Blink News	Atmosphere Galaxy + V MMTF
pository Serina's Bioinformatics Class (BIMM143,	Bioinformatics Class BIMM-143 Introduction to Bioinformatics (BIMM143) +

Bioinformatics Class

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

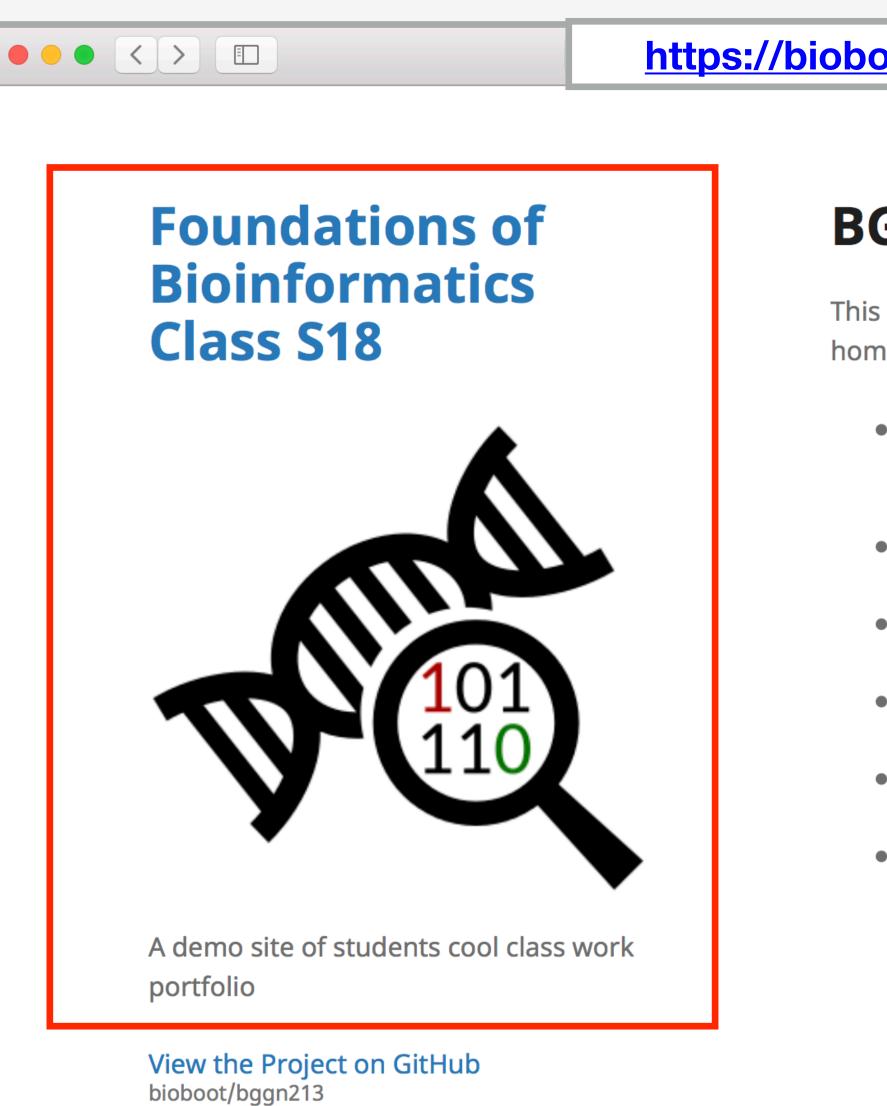
Index of Material

- 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

Code Delta Pull requests O Projects O Bell Wiki Insights Settings Branch: master - bimm143_serina_f18 / _config.yml	Find file Copy path
Branch: master - bimm143_serina_f18 / _config.yml	Find file Copy path
S bioboot Update _config.yml	3b72493 just now
1 contributor	
4 lines (3 sloc) 151 Bytes His	istory 🖵 🖍 面
<pre>1 theme: jekyll-theme-minimal</pre>	
<pre>2 logo: https://bioboot.github.io/bimm143_F18/assets/img/logo.png</pre>	
3 title: Serina's Bioinformatics Class (BIMM143, Fall 2018)	

Here I: (1) Chose the "minimal" theme, (3) <u>Edited config.yml</u> (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

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

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.

Bioinformatics This Intr Clas Clas Clas Clas Clas Clas Clas Clas							🗎 biobo
Introduction to Bioinformatics This Introduction to		Home	Gmail Gcal	Bitbucket	GitHub	BIMM143_F18	BGGN213_S
Bioinformatics This Image: State of students cool class web site Class View the Project on GitHub Class bloboot/binm143-1 Class This project is maintained by bioboot Class Hosted on GitHub Pages — Theme by orderedlist RMA	bioboot/bimm143_serina_f	18: Serina's Fall 20	18 class repos	itory fork		Serina's BIMM 14	3 Class Repos
Bioinformatics This Image: State of students cool class web site Class View the Project on GitHub Class bloboot/binm143-1 Class This project is maintained by bioboot Class Hosted on GitHub Pages — Theme by orderedlist RMA							
Bioinformatics This Image: State of students cool class web site Class View the Project on GitHub Class bloboot/binm143-1 Class This project is maintained by bioboot Class Hosted on GitHub Pages — Theme by orderedlist RMA							
This Intro Intro <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bi</td>							Bi
Intro		DIOIIII	orm	alics			This
Clas Clas Clas Clas Clas Clas Clas Clas							Inc
Class Class Class Class Usin Class				Λ			Intro
Class Usin Class Usin Class							Clas
View the Project on GitHub Using View the Project on GitHub Class Fund Class View the Project on GitHub Class Noted on GitHub Pages — Theme by orderedlist Class							Clas
Class A demo site of students cool class web site Class Class Class Class Class Class Fun bioboot/bimm143-1 Class This project is maintained by bioboot Hosted on GitHub Pages — Theme by orderedlist RNA				101			Clas
A demo site of students cool class web site Class View the Project on GitHub bioboot/bimm143-1 Class This project is maintained by bioboot Class Hosted on GitHub Pages — Theme by orderedlist RNA				110	L		Usin
A demo site of students coor class web site Class site Class Fun bioboot/bimm143-1 Class Class This project is maintained by bioboot Class Class Hosted on GitHub Pages — Theme by orderedlist RNA		•					Clas
ClassView the Project on GitHubbioboot/bimm143-1ClassThis project is maintained by biobootClassHosted on GitHub Pages — Theme by orderedlistRNA			of studen	ts cool cla	iss web)	Clas
View the Project on Github bioboot/bimm143-1 Class This project is maintained by bioboot Class Hosted on GitHub Pages — Theme by orderedlist RNA		site					Clas
This project is maintained by bioboot Clas Hosted on GitHub Pages — Theme by orderedlist RNA				tHub			Fund
Hosted on GitHub Pages — Theme by orderedlist RNA				ned by <mark>bi</mark>	oboot		Clas
							Clas
Clas		Hosted on Gith	lub Pages —	Theme by o	orderedl	ist	RNA
							Clas

Here I: (1) Chose the "minimal" theme, (3) Edited _config.yml (adding logo and title),



oboot.github.io/bimm143-1/	Ċ	
3_S18 BIMM-194 GDocs Disqus Blink News	✓ Atmosphere Galaxy + ✓ MMTF	
pository Serina's Bioinformatics Class (BIMM143,	Bioinformatics Class BIMM-143 Introduction to	Bioinformatics (BIMM143) +

oinformatics Class

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

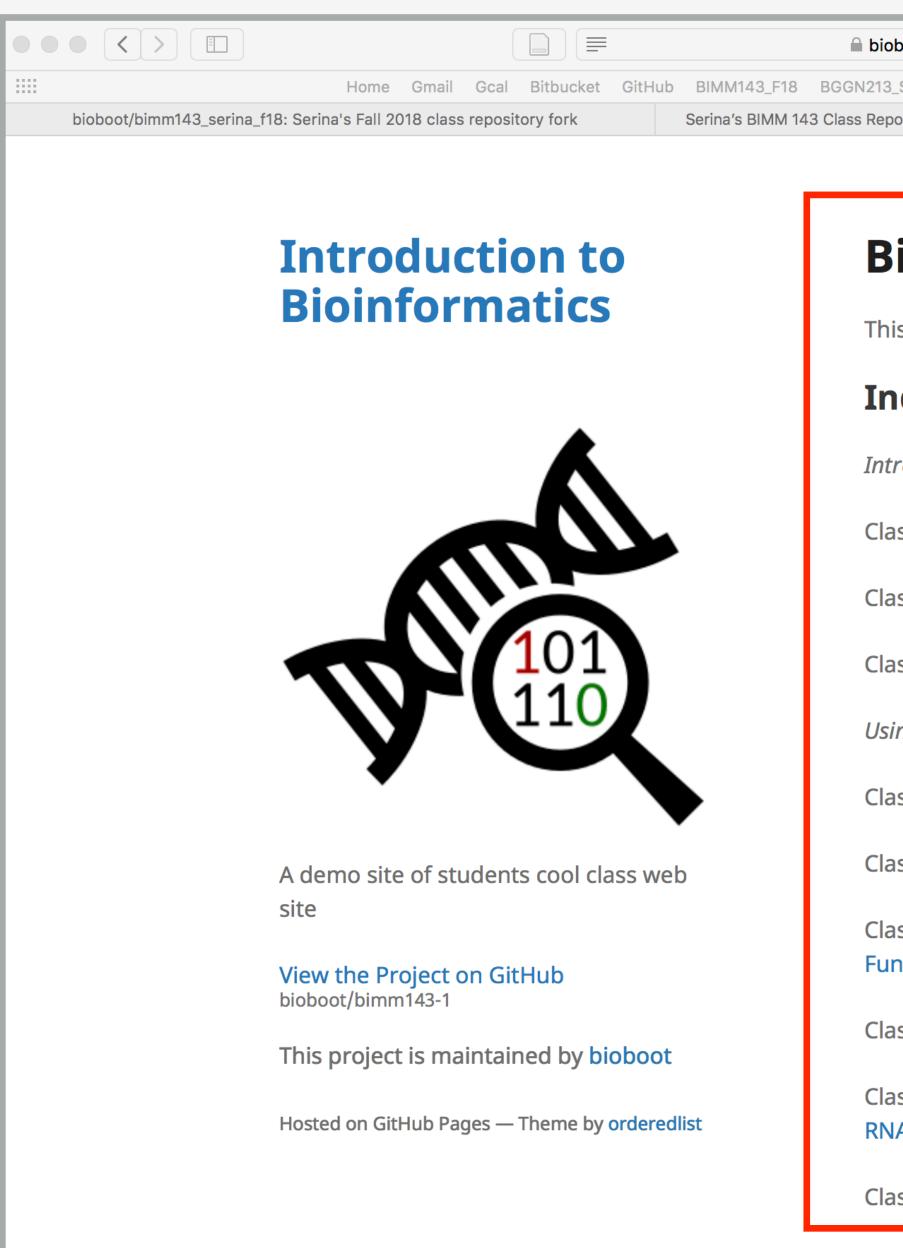
dex of Material

- oductory Material: Working With R
- ss 5 Basic Data Exploration and Visualization in R HTML, MD, Rmd
- ss 6 Creating R Functions
- ss 7 R Packages, working with CRAN, and working with Bioconductor
- ng R and Other Tools for Bioinformatics Analysis
- ss 8 An Introduction to Machine Learning (Heirarchical Clustering)
- ss 9 Analyzing High Dimensional Datasets and Unsupervised Learning
- ss 11 Structural Bioinformatics: Analyzing Protein Structure and nction
- ss 12 Drug Discovery: Techniques and Analysis
- ss 13 Genome Informatics and High Throughput Sequencing (NGS, A-Seq, and FastQC)
- ss 14 Transcriptomics and RNA-Seq Analysis

(4) Edited README.md

bioboot / tmp_test	O Unwatch -	1	*	Star	0	% Fork	0
Code Issues O IPull requests O IProjects O I Wiki Insights	Settings						
p_test / README.md © or cancel							
> Edit file O Preview changes	Sp	aces	\$	2	S	oft wrap	\$
<pre>3 This is a store of my class-work for [BIMM143 Winter 2019](https://bioboot.github.i 4 5 ## Content</pre>	io/bimm143_W1 5/class05.md)		t UC	San D	iego.		

Here I: (1) Chose the "minimal" theme, (3) Edited _config.yml (adding logo and title), (4) <u>Edited README.md</u>



Here I: (1) forked Serina's Repo, (2) Chose the "minimal" theme,

oboot.github.io/bimm143-1/	
3_S18 BIMM-194 GDocs Disqus Blink News 🗸 Atmosphere Galaxy + 🗸 MMTF	
pository Serina's Bioinformatics Class (BIMM143, Bioinformatics Class BIMM-143 Introduction to Bioinfor	matics (BIMM143)
Bioinformatics Class	
ionnormatics class	
his is my repository for my Bioinformatics class from UC San Diego in S18.	
ndex of Material	
troductory Material: Working With R	
ass 5 - Basic Data Exploration and Visualization in R HTML, MD, Rmd	
ass 6 - Creating R Functions	
ass 7 - R Packages, working with CRAN, and working with Bioconductor	
ing R and Other Tools for Bioinformatics Analysis	
ass 8 - An Introduction to Machine Learning (Heirarchical Clustering)	
Asso with introduction to machine Learning (includiented clastering)	
ass 9 - Analyzing High Dimensional Datasets and Unsupervised Learning	
ass 11 - Structural Bioinformatics: Analyzing Protein Structure and nction	
ass 12 - Drug Discovery: Techniques and Analysis	
ass 13 - Genome Informatics and High Throughput Sequencing (NGS, IA-Seq, and FastQC)	
and lastyc	
ass 14 - Transcriptomics and RNA-Seq Analysis	

(3) Edited _config.yml (adding logo and title)

Thank you very much!

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

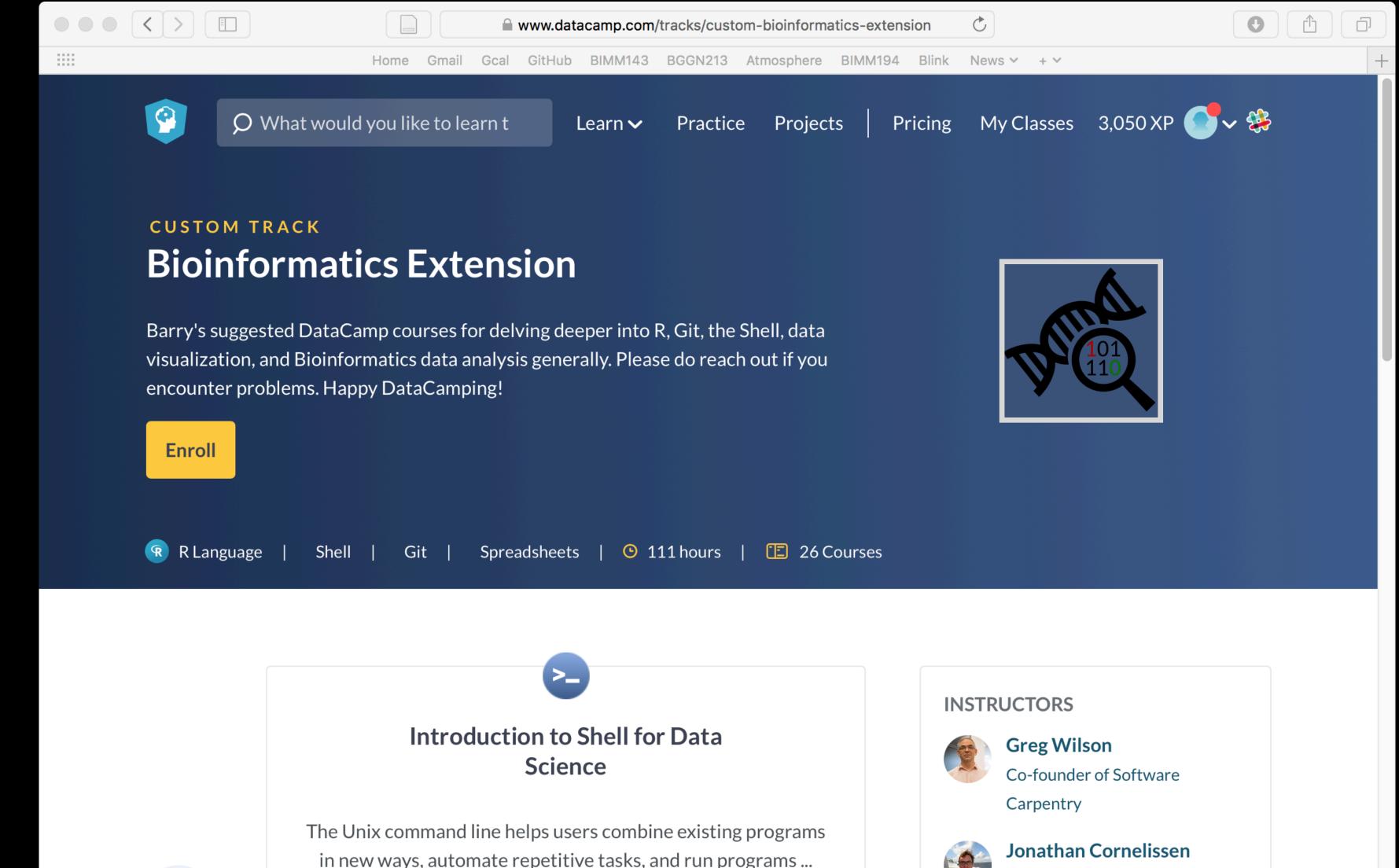
Thank you very much!

Please do fill out your CAPs evaluation (<u>Link!</u>) if you get a change. It is important to the courses we offer in the future and how we teach them!

Post to GradeScope your <u>GitHub Pages</u> portfolio <u>URL</u> with all classes by this Friday and receive another 5pts credit!

Going Further With DataCamp

https://bioboot.github.io/bimm143 F19/class-material/datacamp_extras.pdf



Thank you very much!

Please do fill out your CAPs evaluation (<u>Link!</u>) if you get a change. It is important to the courses we offer in the future and how we teach them!

Post to GradeScope your <u>GitHub Pages</u> portfolio <u>URL</u> with all classes by this Friday and receive another 5pts credit!

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.

