Using Git and Bitbucket for Assignment Submission

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In this class you will use GIT to version control your work and BitBucket for assignment submission. Why?

- First of all because you need to learn this, it is the method professionals use to collaborate online.

- It allows me to check not just the final product of your work, but how much time you spend on the project, the errors you made, and perhaps understand your thought process.

- We use BitBucket specifically because it allows primate repositories.

FAQ:

Q: Can I use GitHub?

A: Yes, but you will have to pay for a private repository. In Bitbucket it is free.

Q: Can I use Mercurial?

A: No. Mercurial is great and comparable to Git but my automated process is based on Git.

Before you start, if you do not have one, you need a BitBucket account, to create a private repository where to upload your projects/assignments, and give me access to it, so that I can read it, grade it, and make corrections. You will use one and the same repository for each assignment.

Visit http://bitbucket.com and register/login.

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$\leftrightarrow \rightarrow \mathbb{C}$ Atlassian, Inc.	[US] https://bitbucket.org/a	account/signin/?next=/	☆ 9	Ξ
Bitbucket Repositori	ies - Create	Q owner/repository	• (?)	
	Log in	Switch to OpenID log in		
	Username or email			
	Password			
		Log in Forgot your password?		
		Need an account? Sign up free.		
		or		
	8 Google	Facebook Twitter Q GitHub		
Blog - Suppo	rt , Plans & pricing , Doour	ventation , ADI , Server status , Version info , Terms of service , Driversuppl	inv	
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You will be redirected to a Dashboard. It shows all your projects. Press [Create Repository]



Create a new repository. Call it "csc299", make it private, do not allow forking, use Git (not Mercurial) and enable Issue tracking and Wiki for your project. If you want to declare a language choose Python (optional). The press [Create repository]

Create a new ro	anository	Yes and the langest and the second seco
	spository	You can also import a repository
Name*	csc299	New to Bitbucket?
Description		Learn the basics of using Git and Mercurial by exploring the Bitbucket 101.
Access level	This is a private repository	Working in a team?
Repository type	Git Mercurial	Create a team account to consolidate your repos and organize your team's work
Project management	✓ Issue tracking✓ Wiki	
Language	Select an Option Create repository Cancel	

You now need instructions to that code that resides on your machine can be pushed (aka uploaded) to Bitbucket. Choose the option "I'm starting from scratch".



At this point Bitbucket will give instructions that you need to run on your local machine to create a repo and upload the data. These instructions are:

- make a folder for a project (if you do no have one)
- cd into that folder
- type "git init" to create a new repository in that project
- type "git add ." to add all files from that folder to the repository
- type "git remote origin https://....git" to push (aka upload) your repository to Bitbucket.

Press [Next]



After you do this, every time you work on your project you will do:

"git add ." to add new files you created to the repository

"git commit -a -m 'some comment'" to mark an important point in your development process

"git push" to upload the changes to the Bitbucket server.

You should have a file called README.md in which you explain what your project is about. Also include a file called student.yaml which contains:

name: <your name> student-id: <your student id>



You can add friends to share your code. Unless this is a collaborative project you should not add friends because you want to keep it private (I remind you I will check for similarities and plagiarism will be detected and reported).



You should add me (mdipierro) so that I can monitor your progress.



Done!