



### **Data Driven Supply Chain Management**

Git Workflow Tutorial







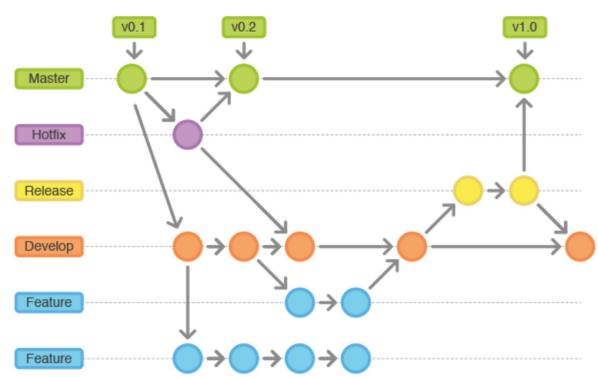
# **Agenda**

- Git: What & How
- Git Codespaces: What & How
- Submission Workflow



#### Git: What & How

- Git is a distributed version control system that tracks changes in any set of computer files, usually used for coordinating work among programmers who are collaboratively developing source code during software development.
- A repo is a directory that has git implemented
- Each track is called a branch
- Each dot is called a commit
- We called a *merge* when we combine code from one *branch* to another
- A pull-request (PR) is a "request to merge" that needs to be reviewed by someone else





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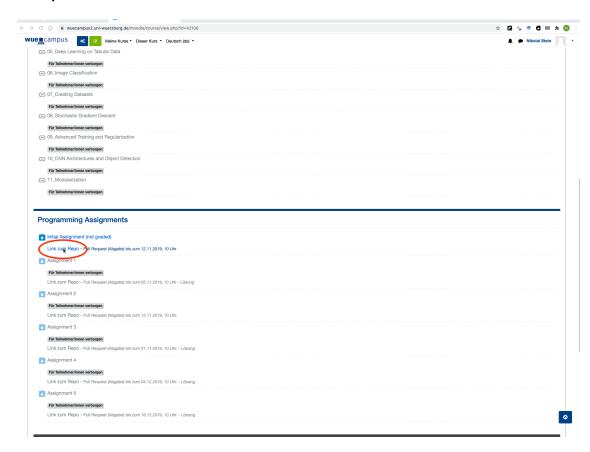
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- A codespace is a computing environment that's hosted in the cloud (If you're familiar with Google Colab, is very similar but the difference is that is linked with a specific repo)
- We'll provide all the dependencies that you need for developing the assignments:
  - You only need to focus on coding, not in setting the environment or installing packages;-)
- To work on your assignment, you have to:
  - 1. Click on the assignment *url* in WueCampus classroom
  - Login using GitHub Account
  - 3. Join the GitHub classroom by clicking on "Skip to the next step"
  - 4. Accept the assignment
  - 5. Wait for GitHub classroom to configure your repository and click on the link
  - 6. Press Code >> Codespaces and create the codespace in your own branch
  - 7. Wait until the environment is created, once is done you're ready to go!

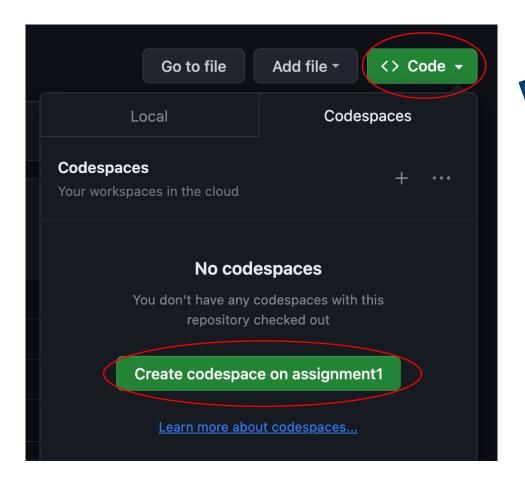


• Steps 1 to 6:





Steps 7 to 8:





Once this appears in the Terminal, your codespace environment is ready

Tip: once you're done with your workspace, don't forget to shut it down (but commit all your progress first!)



Finally, for running notebooks within your codespace you need to select a kernel, this is how you do it:



- (1) Execute the first cell with the button (or keyboard shortcut)
  - You can also select the "Run all" on the top of the notebook if you want to run all code chunks at once
- (2) Select "Python Environments..."

(3) Choose the environment with the ★ and *voilá*.

**Note:** This is done **only the first time** you execute a notebook within an active codespace.



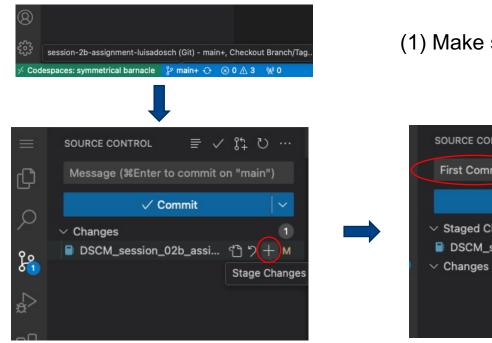
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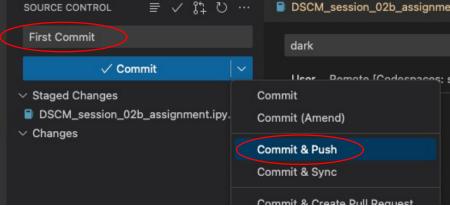


#### **Submission Workflow**

- Assignments are submitted via a commit on the main branch
- You can push as many commits as you want
- The last commit on the main branch before the deadline counts as your submission



(1) Make sure that you are on the main branch



(2) Stage your changes (+)

(3) Add a message, commit and push

