gitflow

MdM

	March 2, 2019
At the start of each	project - GITHUB

- Go to https://github.com and make sure you are logged in.
- Click green New repository button. Or, if you are on your own profile page, click on Repositories, then click the green New button.
 - Repository name: myrepo (or whatever you wish)
 - Public
 - YES Initialize this repository with a README
- Click the big green button Create repository
- Copy the HTTPS clone URL to your clipboard via the green Clone or Download button. Or copy SSH URL if you chose to set up SSH keys.

At the start of each project - RSTUDIO

In RStudio, start a new Project:

- File > New Project > Version Control > Git.
- ullet In the $repository\ URL$ paste the URL of your new GitHub repository. It will be something like this https://github.com/jennybc/myrepo.git.
 - Suggest you Open in new session.
- Click Create Project to create a new directory, which will be all of these things:
 - a directory or "folder" on your computer
 - a Git repository, linked to a remote GitHub repository
 - an RStudio Project

In the absence of other set-up.	r constraints,	I suggest	that	all o	of your	\mathbf{R}	projects	have	exactly	thi

COMMIT

Do this every time you finish a valuable chunk of work, probably many times a day.

- Modify the file
 - IF NEW FILE From RStudio, Create a file in the project folder
 - IF EXISTING FILE modify the file, e.g., by adding the line "This is a line from RStudio".
 Save your changes.
- Commit these changes to your local repo. How?
 - Click the Git tab in upper right pane
 - Check Staged box for any files whose existence or modifications you want to commit.
 - To see more detail on what's changed in file since the last commit, click on Diff for a Git pop-up
 - If you're not already in the Git pop-up, click Commit
 - Type a message in Commit message, such as Commit from RStudio.
 - Click Commit

PUSH to GITHUB

Do this a few times a day, but less often than you commit. You have new work in your local Git repo but the changes are not online yet.

- This will seem counterintuitive, but first let's stop and pull from GitHub.
 - Why? If you make changes to the repo in browser or from another machine, you will be happy if you pull those changes before attempting to push.
- Click the blue *Pull* button in the *Git* tab in RStudio. I doubt anything will happen, i.e. you'll get the message "Already up-to-date."
- Click the green *Push* button to send your local changes to GitHub.

CONFIRM local change to the GitHub remote

- Go back to the browser. Refresh.
- You should see the new text in the changed file.
- If you click on *ommits*," you should see one with the commit message.

REPEAT		
REPEAL		

If making a CHANGE ON GITHUB

- Click on the file to change in the file listing on GitHub.
- In the upper right corner, click on the **pencil** for *Edit this file*.
- Add a line to this file, such as "Line added from GitHub."
- Edit the commit message in Commit changes or accept the default.
- Click the big green button Commit changes

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- Back in RStudio locally. Inspect your file. It should NOT have the added line. It should be as you left it. Verify that.
- Click the blue *Pull* button.

•	Look at file again.	Yo	ou should now see the new line there.
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DELETE A REPO

- On GitHub, navigate to the main page of the repository.
- Under your repository name, click Settings.
- Under Danger Zone, click Delete this repository.