

Introduction to tools for collaboration





Slack

Channels

- use for teamwork and class communication
- public (anyone can see)

Tags

- notify a person by typing the person's user id (starting with @)
- notify an entire channel by typing **@channel (disabled for non-admins)**
- notify only the people who are online in a particular channel with **@here (disabled for non-admins)**

Direct Messages

- communicate privately (no @ needed)

A screenshot of the Slack desktop application. On the left is a dark sidebar with a list of channels and direct messages. The channels listed are: Nashville Software School, #alumni, #data-science-01, #data-science-02 (which is selected and highlighted in teal), #general, #instructors, #instructors-data-01, #instructors-data-02, #nsst-staff, #random, and #til. Below these are Direct Messages with slackbot and Mary van Valkenburg. The main area shows a channel named '#data-science-02'. The channel header includes a star icon, a message count of 26, a file count of 0, and a link to 'Add a topic'. It also has icons for phone, info, gear, search, and a gift. A message from John Wark (@JohnWark) at 12:52 PM says he joined the channel. The channel history is dated from Tuesday, August 7th to Today. On August 7th, Mary van Valkenburg (@MaryVanValkenburg) invited Davis Threlkell (@DavisThrelkell) and Michael Holloway (@MichaelHolloway). On August 8th, Davis Threlkell joined the channel. On August 10th, Mary van Valkenburg (@MaryVanValkenburg) greeted Alicia Ortiz (@AliciaOrtiz) and invited UrLeaka Newsome (@UrLeakaNewsome). Today, Taylor Perkins (@TaylorPerkins) greeted the group. At the bottom of the channel view is a message input field with a plus sign and the placeholder 'Message #data-science-02'.

- Acknowledge messages with :+1:
- Save important shared items (free slack has limitations)

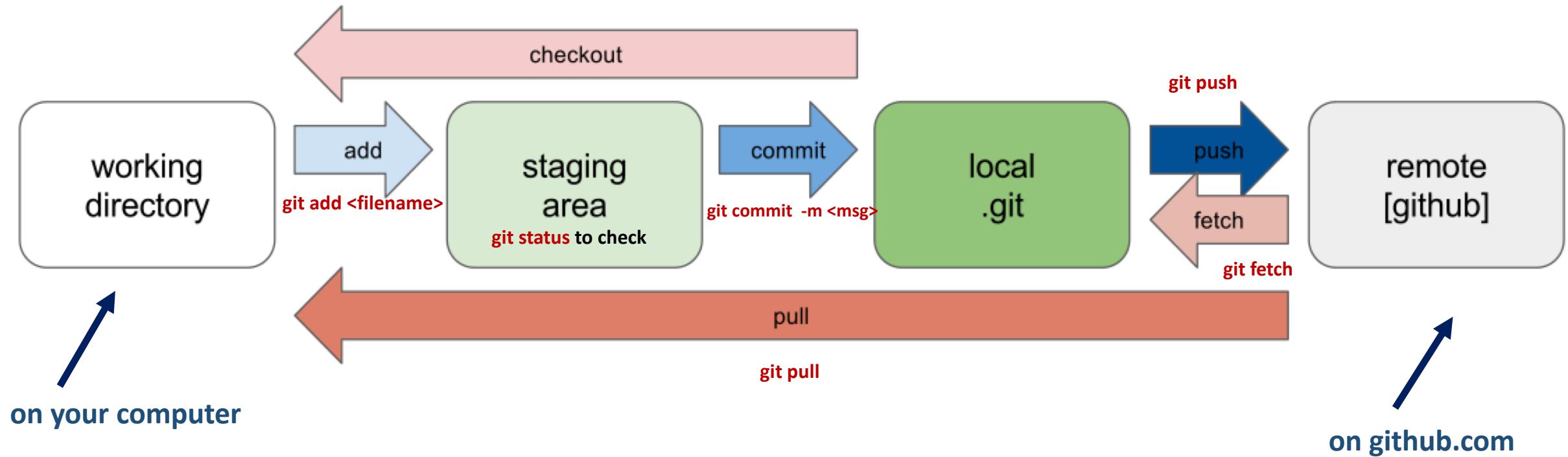


**Git and GitHub for
tracking assignments,
collaboration, and
version control**

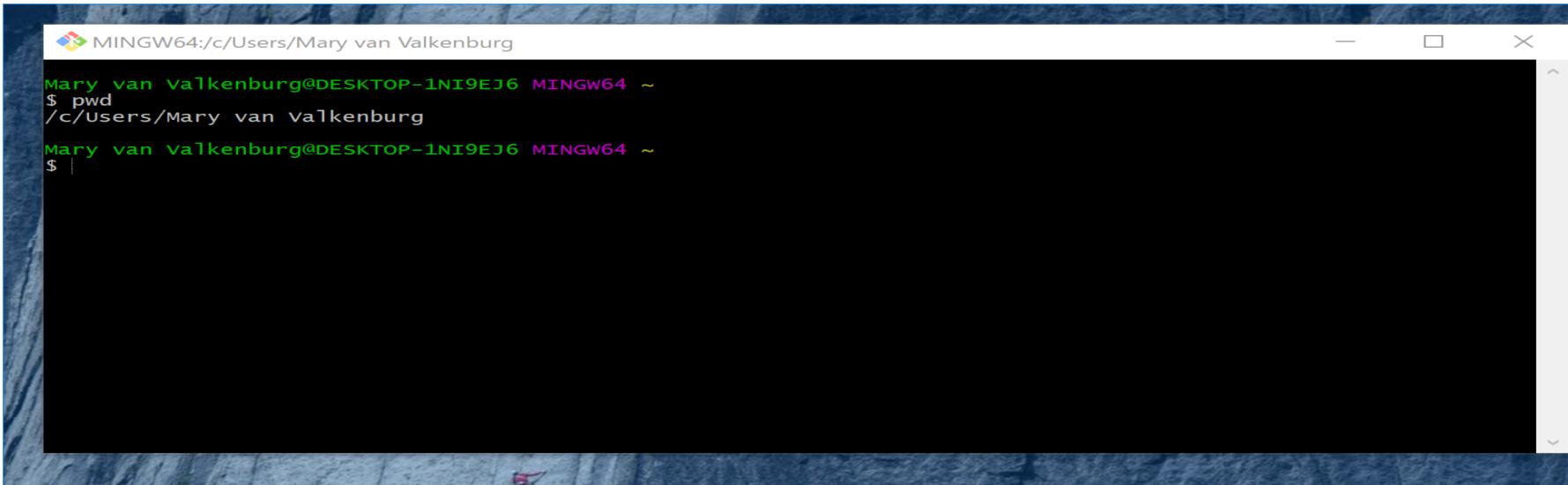


git and GitHub

for collaboration, and version control



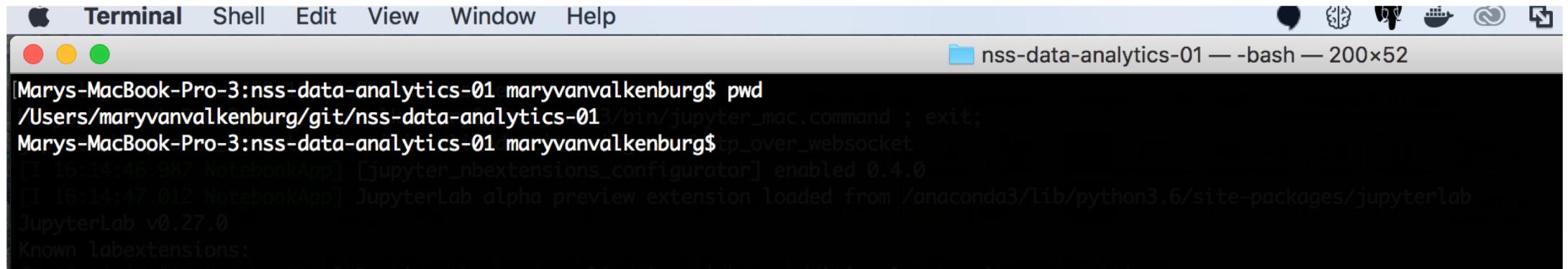
- Install git (<https://git-scm.com/downloads>)
- Create an account at <https://github.com/>
- Since we will be working in Windows for our Excel projects, everyone will need to clone their assignment repositories to their Windows machine
- On Windows:
 - Open Git Bash:



```
MINGW64:/c/Users/Mary van Valkenburg
Mary van Valkenburg@DESKTOP-1NI9EJ6 MINGW64 ~
$ pwd
/c/Users/Mary van Valkenburg
Mary van Valkenburg@DESKTOP-1NI9EJ6 MINGW64 ~
$ |
```

For Mac/Linux users for later

- When working on Mac:
 - Open Terminal



A screenshot of a Mac OS X Terminal window. The window title is "Terminal" and the tab title is "nss-data-analytics-01 — -bash — 200x52". The terminal session shows the user navigating to their home directory, running a command to start Jupyter Notebook, and then interacting with JupyterLab. The output includes logs from the NotebookApp and JupyterLab, indicating the loading of extensions and the version of JupyterLab.

```
Marys-MacBook-Pro-3:nss-data-analytics-01 maryvanvalkenburg$ pwd
/Users/maryvanvalkenburg/git/nss-data-analytics-01
Marys-MacBook-Pro-3:nss-data-analytics-01 maryvanvalkenburg$ /Users/maryvanvalkenburg/miniconda3/bin/jupyter_mac.command ; exit;
[1: 16:14:46.987 NotebookApp] [jupyter_nbextensions_configurator] enabled 0.4.0
[1: 16:14:47.012 NotebookApp] JupyterLab alpha preview extension loaded from /anaconda3/lib/python3.6/site-packages/jupyterlab
JupyterLab v0.27.0
Known labextensions:
```

- Find your working directory with this command: **pwd**
 - These are other helpful shell commands for navigating through your directories:
 - **ls** lists the contents of the current directory
 - **cd <directory name>** changes the directory to the one specified
 - **cd ..** Takes you up one level in the directory structure
- Navigate to where you want to create our local git repositories and make your directory and create a directory called git: with **mkdir git**
- Change to the new git directory with **cd git**
- Make a directory called nss-data-analytics (or similar) with **mkdir <new folder name>**
- Change to the directory with **cd <new folder name>**

Go to **your assignment repository**

Clone **your remote repository** to create a **local repo**

copy clone url from github.com

[Clone or download ▾](#)

git clone <url to repository that you copied>

Today's tasks:

- Observe the process to create a new repository on GitHub
- Observe the process to update README and add a file to the local repository
- Observe the process to move new work to the remote repository
- Fork the repo on GitHub
- Clone your fork to your laptop (local repository)
- Launch the Jupyter notebook from your local repository
- Get a tour of Jupyter
- Copy updated work to GitHub (remote repository)