Introduction to Data Science

Data Science Essentials





Channels

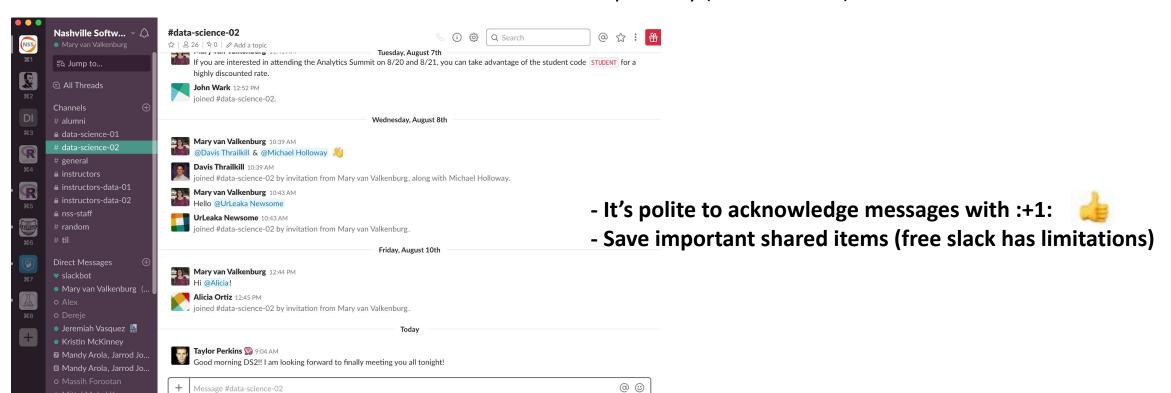
- use for teamwork and class communication
- public (anyone can see)

Tags

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

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- Direct Messages
- communicate privately (no @ needed)



Command Line



pwd

ls

cd

cd ..

mkdir

rmdir

mv

touch

cat

Linux/Mac: Terminal

Windows: Git Bash (for using Git); Anaconda

Prompt (for working with conda)

Resources:

https://www.learnenough.com/command-line-tutorial https://learnpythonthehardway.org/python3/appendixa.html https://www.datacamp.com/courses/introduction-to-shell-for-data-science

conda list
conda install <package name>



git and GitHub



You may already have git installed: from the terminal (or Anaconda Prompt on Windows), try typing

\$ git --version

If this doesn't work, browse to https://git-scm.com/downloads and download the appropriate version. If on Windows, download from https://gitforwindows.org/, which will also download Git Bash.

Today's tasks:

- Create an account on GitHub (unless you already have one)
- Fork the repo on GitHub to put a copy in your account
- Clone your fork to your laptop (local repository)
- Launch the Jupyter notebook from your local repository
- Get a tour of Jupyter
- Walkthrough the python review notebook
- Push changes back to GitHub

Command Line Introduction

pwd

"print working directory" - tells you where you are located

Is

lists the contents of the current directory

cd <directory name>

changes the directory to the one specified

cd ..

Takes you up on level in the directory structure

Use these commands to navigate to the directory where you want to create the repo for this class.

Repository Setup

First, fork the repository here:

https://github.com/Vanderbilt-Aspire-Data-Science/data-science-essentials-4

Then, ensure that you are on the forked version on your personal GitHub

Clone or download ▼

Finally, clone your remote repository to create a local repo by copying the clone url from github.com and then running from the terminal:

git clone <url to repository that you copied>

Create a PAT

Before pushing changes, we must create a personal access token on GitHub.

- 1. Open *settings* by clicking on your profile picture in the upper right corner.
- 2. In the menu on the left, choose *Developer Settings*, then choose *Personal access tokens*
- 3. Choose *Generate new token*, give it a name, and ensure that you have selected the **repo** scope
- 4. Take the resulting token and save it somewhere (or email to yourself).

Pushing work to GitHub

1. Work on files locally. When done, run

2. Commit changes:

```
git commit -m '<message>'
```

3. Push to GitHub:

```
git push origin master
```

