

Downloading & Scripting

Dowloading and Scripting



Downloading Files

To download files from the internet, we'll use the command `wget`.

Note: `wget` will usually be available in replits I create for you, but in case you ever get an error saying it is not installed, just hit enter while the text `wget.out` is highlighted, and it will install for you.

To download a file from the internet, we just give `wget` a valid url. If we give it just a website url, it will download the site's html file. We'll be working with text a lot in this course, so let's download a free plain text version of *Pride and Prejudice* by Jane Austen. We can find its url through Project Gutenberg here: <https://www.gutenberg.org/files/1342/1342-0.txt>

```
wget https://www.gutenberg.org/files/1342/1342-0.txt
```

After running this command, if I run `ls`, I'll see that a file called `1342-0.txt` is now in my directory. This contains the book *Pride and Prejudice*! This isn't the best name for our file, so to keep things straight, we can rename it with `mv`.

```
mv 1342-0.txt PandP.txt
```

This "moves" the file `1342-0.txt` to the file `PandP.txt`.



Shell scripts

Every command we've typed directly into the shell, we can also type into a text file called a "shell script" and run it all at once. This is what the `main.sh` file in our replits is for. Instead of

typing every command individually, we can type them all into `main.sh` and hit the big green Run button.

Note, the command line ignores any line starting with `#` so we can write notes to ourselves there.

```
# main.sh
# make the books directory
mkdir books

# change directory into books
cd books

# print the present working directory
pwd

# check if there's any files in here
ls

# Download pride and prejudice
wget https://www.gutenberg.org/files/1342/1342-0.txt

# list to make sure the file got here
ls

# rename the file
mv 1342-0.txt PandP.txt

# list to make sure the renaming worked.
ls
```

Or, instead hitting the big green Run button, we can use `source` in the shell

```
source main.sh
```