

Shell Scripting 2020: Week 2

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9. Pipelines

Contents of the `task9.sh` file:

```
# Counting all files
ls ~ | tee ls_output
wc -l ls_output

# Counting only folders
ls -d */ | tee ls_output_dirs
wc -l ls_output
```

Alternatively I could have used the command `ls dir > ls_output`.

10. Filters

Contents of the `task10.sh` file:

```
ls ~ | grep 'e' | wc -l
```

Output of the execution:

```
$ ./task10.sh
5
```

11. Interlude: Bash

Contents of the `count-homedir.sh` file:

```
ls -p ~ | egrep -v /\$ | wc -l
```

12. Some Assembly required

Contents of the `task12_list_files_subdirectories_November_2011.sh` file:

```
# Syncing with remote directory
rsync --archive /cs/home/tkt_cam/public_html/2011/11 ~/Desktop/
  ShellScripting2020/Week2/2011 --stats

# Listing files, directories and subdirectories
ls -R ~/Desktop/ShellScripting2020/Week2/2011/11
```

13. Now we want only the pictures

Contents of the `task13_list_all_jpg_November_2011.sh` file:

```
# Syncing with remote directory
rsync --archive /cs/home/tkt_cam/public_html/2011/11 ~/Desktop/
ShellScripting2020/Week2/2011 --stats
```

```
# Listing files, directories and subdirectories
ls -R ~/Desktop/ShellScripting2020/Week2/2011/11 | grep jpg
```

Alternatively I could have simply called the previous script like this:

```
task12_list_files_subdirectories_November_2011.sh | grep jpg
```

14. How many do we have so far?

Contents of the task14_count_picture_files.sh file:

```
# Syncing with remote directory
rsync --archive /cs/home/tkt_cam/public_html/2011/11 ~/Desktop/
ShellScripting2020/Week2/2011 --stats

# Listing files, directories and subdirectories
ls -R ~/Desktop/ShellScripting2020/Week2/2011/11 | grep jpg | wc -l
```

Alternatively I could have simply called the previous script like this:

```
wc -l task13_list_all_jpg_November_2011.sh
```

15. Remember the backticks

Contents of the task15_list_all_jpg_current_month.sh file:

```
# Syncing with remote directory
# echo `rsync --archive /cs/home/tkt_cam/public_html/$(date +%Y/%m) ~/
Desktop/ShellScripting2020/Week2/$(date +%Y) --stats`
rsync --archive /cs/home/tkt_cam/public_html/2016/11 ~/Desktop/
ShellScripting2020/Week2/2016/11 --stats

# Listing files, directories and subdirectories
# echo `ls -R ~/Desktop/ShellScripting2020/Week2/$(date +%Y/%m) | grep
jpg | wc -l`
ls -R ~/Desktop/ShellScripting2020/Week2/2016/11 | grep jpg | wc -l
```

16. The big brother of ls

Contents of the task16_find_image_files_corresponding_current_month_and_count.sh file:

```
# Syncing with remote directory
# echo `rsync --archive /cs/home/tkt_cam/public_html/$(date +%Y/%m) ~/
Desktop/ShellScripting2020/Week2/$(date +%Y) --stats`
rsync --archive /cs/home/tkt_cam/public_html/2016/11 ~/Desktop/
ShellScripting2020/Week2/2016/11 --stats

# Listing image files
# find ~/Desktop/ShellScripting2020/Week2/$(date +%Y/%m) -name '*.jpg' -
type f | wc -l
find ~/Desktop/ShellScripting2020/Week2/2016/11 -name '*.jpg' -type f |
wc -l
```