5:W35: Managing Files on Steroids with Shell

**DESCRIPTION**

Your supervisor has shared a [folder of photos on Sciencedata.dk](https://sciencedata.dk/shared/9ae5ccab83576b9c38d5852e7aab65a3)with you (password is 2020CDS, folder is 500Mb and contains 189 images) and needs your help with a couple diagnostics:

1. Identify the names and format of the 3 biggest files. Can you come up with a command to generate a numerically ordered list of 3 biggest files? (hint: consider using **wc** to gauge image size)

**Answer:**

$ wc -c \*.JPG | sort -rn | head -4

We need to use head -4 because the first line is the total size of all files.

2) Some of the image files are empty, a sign of corruption. Can you**find** the empty photo files (0 kb size) , count them, and generate a list of their filenames to make their later replacement easier?

**Answer**

$ wc -c \*.JPG | sort -rn > ../size.txt

$ cat size.txt | grep -w 0 > empty\_files.txt

3) **Optional/Advanced:** Imagine you have a directory [goodphotos/](https://sciencedata.dk/shared/16112a12cc9f57ef697d4502448a3e60?download" \t "_blank) (same password as above) with original non-zero-length files sitting at the same level as the current directory. How would you write a loop to replace the zero length files?

**Answer:**  We can use the find command to find all files in (.) current directory which match (-size) = 0c (0c denotes file size should be 0). And all the files will be deleted with the (-delete) command.

* find . -size 0c -delete
* find. -size -0c (to check if all the files were removed.