

5:W35: Managing Files on Steroids with Shell

DESCRIPTION

Your supervisor has shared a [folder of photos on Sciencedata.dk](#) 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)

[lists all the files with sizes starting with the largest, and then taking the first three of that list]

→ `ls -S | head -n 3`

Lists the files from largest to smallest | gets the top three results which are the biggest files

9240_Overview_S.RW2

9247_Overview_SW.RW2

9237_Overview_W.RW2

→ `wc -c * | sort -n | tail -n 4`

Find the byte size | sorts from smallest to largest | gets the last three 3 which are the biggest files, need 4 because it also gets the total line

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?

→ `find -empty > empty_files.txt`

→ `wc -l empty_files.txt`

Tells us there are 74 empty files

3) **Optional/Advanced:** Imagine you have a directory [goodphotos/](#) (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?