ADS Lab 04 - Scripting

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Date: March 30, 2023

password for lab5 session: fBAW3g&jnH8&

Task 2: Create thumbnails

Show dimensions script

> Write a script called show_dimensions that loops through all the picture files and shows for each its
> name and its dimensions. For the loop use the for .. in .. do .. done control structure.

```bash
#!/bin/bash
#
# Description : Print the name of each picture in the lab04_raw_files directory,
followed by its dimensions. Picture extension should be .png or -jpg. Dimensions
are width and height.
#
# Authors : Pablo Urizar, Vincent Peer
#
# Date : 06.04.2023


path=lab04_raw_files
cd $path

for file in *.png *.jpg
do
        echo -e $(identify -format '%f width: %w, height: %h' $file)
done
```

Rename pictures script

> Write a script called rename_pictures that produces picture files that have the dimensions in their
> name. For example if a picture is called building.jpg and has a width of 1024 and a height of 768 pixels
> the script should create a file building_1024_768.jpg . The script should not modify the original files,
> but create new ones.

```bash
#!/bin/bash
#
# Description : Renames each picture with png or jpg extention. The resulting name
is the  name followed by the width and the height of this picture.
#
```

```
# Authors : Pablo Urizar, Vincent Peer
#
# Date : 06.04.2023



rm -rf renamed_pictures
mkdir renamed_pictures

cd lab04_raw_files

for picture in *.png *.jpg
do
        picture_ext=${picture##*.}
        basename=${picture%%[.]*}
        dimension=$(identify -format '%w_%h' $picture)
        filename=${basename}_${dimension}.${picture_ext}

        echo "new name : $filename"
        cp $picture ../renamed_pictures/${filename}
done
```

Task 3: Generate HTML file

Task 4: Use SSH Tunneling