# ADS Lab 04 - Scripting

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The lab5 session is available with all our scripts and directories.

username: lab5

password: fBAW3g&jnH8&

The other session lab6 was used our tests.

# Task 2: Create thumbnails

# Show dimensions script

#### Rename pictures script

```
#!/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 and each new
# picture is placed in a new directory named renamed_pictures.
#
# Authors : Pablo Urizar, Vincent Peer
#
# Date : 09.04.2023

cd lab04_raw_files
```

```
# Removes the directory and creates a new one
rm -rf renamed_pictures
mkdir renamed_pictures

# Add dimensions in the picture's name
for picture in *.png *.jpg
do

    picture_ext=${picture##*.}
    name=${picture%%[.]*}
    dimension=$(identify -format '%w_%h' $picture)
    filename=${name}_${dimension}.${picture_ext}

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

To prevent any accumulation in the name when running several time this script, it will remove the renamed\_pictures directory, rename each picture and save it in the new renamed\_pictures directory placed in lab04\_raw\_files.

#### Make thumbnails script

```
#!/bin/bash
# Description : Converts png and jpg pictures into thumbnails. Converts a pdf file
# into png picture with the first page of the file.
# Authors : Pablo Urizar, Vincent Peer
# Date: 09.04.2023
path=lab04_raw_files
cd $path
for file in *.png *.jpg *.pdf
do
        ext=${file##*.}
        name=${file%%.*}
        if [ "${name##*_}" = "thumb" ]
        then
                echo "$name is already a thumbnail"
        elif [ "$ext" = "pdf" ]
        then
                convert -geometry 300 ${file}[0] ${name}_thumb.png
        else
                convert -geometry 300 $file ${name}_thumb.${ext}
        fi
done
```

To prevent from making thumbnails with thumbnails due to several executions of this script, we add some tests to check if the name contains the "thumb" keyword. In this case, we print that this file is already a thumbnail and do nothing more. Then we manage wheather it is a picture or a pdf file.

### Task 3: Generate HTML file

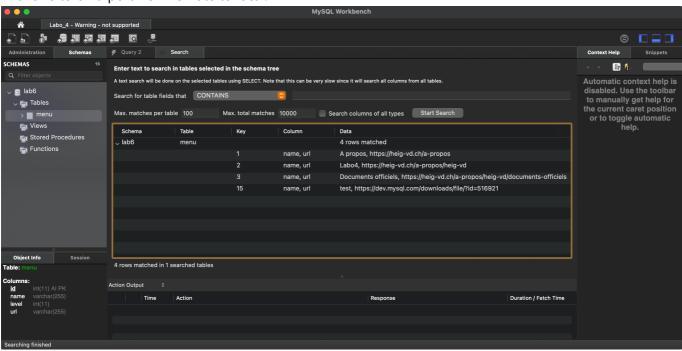
```
#!/bin/bash
# Description : Generates a html file based on the given template.
# This script adds thumbnails of pictures and pdf and allows to click on them
# to see the full version.
#Authors : Pablo Urizar, Vincent Peer
# Date : 09.04.2023
path=raw_files
html_page_rel_path=../page.html
# Writes the beginning of the template into page.html
cat /home/lab5/public_html/lab04_template/template_begin.html > page.html
cd $path
# Adds to the html file the pictures thumbnails
for file in *.png *.jpg
do
        ext=${file##*.}
        name=${file%%.*}
        echo "<div class=\"col-md-6 col-xs-12\">" \
                "<a href=\"${path}/${file}\"><img class=\"vignette\"" \</pre>
                "src=\"raw_files/thumbnails/${name}_thumb.${ext}\" /></a>" \
                "</div>" >> ${html page rel path}
done
# Content and title for pdf files
echo "</div></div>" >> ${html_page_rel_path}
echo "<div class=\"row\" style=\"margin-top: 40px;\">" \
        "<div class=\"col-md-10 col-md-pull-3 col-md-offset-4 article__content\">"
        "<div>" \
        "<div><h2>Téléchargez nos brochures</h2></div>" \
        "</div>" \
        "<div class=\"row\">" >> ${html_page_rel_path}
# adds to the html file the pdf thumbmails
for file in *.pdf
do
        name=${file%%.*}
```

# Task 4: Use SSH Tunneling

SSH command:

ssh ads.iict.ch -L 5454:localhost:3306

-L allows to bind port from remote to local.



We can see some content of the index.php, we added a test with key 15.