

TP2 SYNTHESE BASH

Avant tout je vais me donner les permissions pour agir sur tout les fichier .jpg en prenant en compte la casse :

```
find . -type f -iname "*.jpg" -exec chmod 700 {} \;
```

1) find . -type f -iname "*.jpg" -exec shasum {} \; | awk '{print \$2":"\$1}' > empreintes.txt

```
> find . -type f -iname "*.jpg" -exec shasum {} \; | awk '{print $2":"$1}' > empreintes.txt
> cat empreintes.txt
./Me6ZO/Ltc84FtEiq7s/ENR6X9VAJoN8c/B82UWg/J2hHyvb1x111l/LAK8umyzt.jpg:8b593daa959ea04ccf0f8995cb8fa9390da450a1
./Me6ZO/Ltc84FtEiq7s/ABRXHPLZEt1c/cD0brAz/Utz3nxEQ1Z/p1fVg.JPG:1f6270ed590d99880f0624d8b9d28e7d4ae23fcb
./Me6ZO/Ltc84FtEiq7s/ABRXHPLZEt1c/A5qcMU.jpg:dfd4eedf284b2cea853dd96e8909cf6e8d16f9c2
./Me6ZO/Ltc84FtEiq7s/w0qsxYACEr/ExFsA8/LjHQUym1cz/30xvKkjFC20n.jpg:b15fb89486e624f97aa37851eb7b35334968016e
./Me6ZO/Ltc84FtEiq7s/w0qsxYACEr/z1GMBG5JV/nfR81K0LD0Byy/37upDoRa.jpg:2a9b64cfbf20e0728207d61e25ba8fb1497a45b9
./Me6ZO/Ltc84FtEiq7s/w0qsxYACEr/TzHMAoNaALy1p/C5SmwqL/WVVTM.JPG:119216c74299a2b4f8194ab4b9a3e8d85c73b7b8
./Me6ZO/Ltc84FtEiq7s/qnxbX/WlChwMGwKOpBxN/jPX8ZSf3/gAXwFpLxnEF.jpg:583e16839ff0075d8d8145c7995c8e241000396b
./Me6ZO/Ltc84FtEiq7s/qnxbX/DHUPqJ4Cl6Q/RPIuFmtrm.jpg:d3cf7928a513c64bc18cd40ce10b20da68d43bcf
./Me6ZO/Ltc84FtEiq7s/qnxbX/I89DS7i/LeJeHIeqNSTaxm/vrJpP4.jpg:c9f0720aaf8d3fa604dc2be30e32e3cad399debfbf
./Me6ZO/Ltc84FtEiq7s/qnxbX/I89DS7i/nzYC13i.jpg:33f7f574ca7f31d0da1aca48979166629862abb0
```

2) cat empreintes.txt | awk -F ':' '{print \$1}' OR

awk -F ':' '{print \$2}' empreintes.txt

```
> cat empreintes.txt | awk -F ':' '{print $1}'
./Me6ZO/Ltc84FtEiq7s/ENR6X9VAJoN8c/B82UWg/J2hHyvb1x111l/LAK8umyzt.jpg
./Me6ZO/Ltc84FtEiq7s/ABRXHPLZEt1c/cD0brAz/Utz3nxEQ1Z/p1fVg.JPG
./Me6ZO/Ltc84FtEiq7s/ABRXHPLZEt1c/A5qcMU.jpg
./Me6ZO/Ltc84FtEiq7s/w0qsxYACEr/ExFsA8/LjHQUym1cz/30xvKkjFC20n.jpg
./Me6ZO/Ltc84FtEiq7s/w0qsxYACEr/z1GMBG5JV/nfR81K0LD0Byy/37upDoRa.jpg
./Me6ZO/Ltc84FtEiq7s/w0qsxYACEr/TzHMAoNaALy1p/C5SmwqL/WVVTM.JPG
./Me6ZO/Ltc84FtEiq7s/qnxbX/WlChwMGwKOpBxN/jPX8ZSf3/gAXwFpLxnEF.jpg
./Me6ZO/Ltc84FtEiq7s/qnxbX/DHUPqJ4Cl6Q/RPIuFmtrm.jpg
./Me6ZO/Ltc84FtEiq7s/qnxbX/I89DS7i/LeJeHIeqNSTaxm/vrJpP4.jpg
./Me6ZO/Ltc84FtEiq7s/qnxbX/I89DS7i/nzYC13i.jpg
./Me6ZO/orUKh/qR1iLm8qno/xPSXAE/bv4ZKwtp/IMKlqIz0F.jpg
```

```
> awk -F ':' '{print $2}' empreintes.txt
8b593daa959ea04ccf0f8995cb8fa9390da450a1
1f6270ed590d99880f0624d8b9d28e7d4ae23fcb
dfd4eedf284b2cea853dd96e8909cf6e8d16f9c2
b15fb89486e624f97aa37851eb7b35334968016e
2a9b64cfbf20e0728207d61e25ba8fb1497a45b9
119216c74299a2b4f8194ab4b9a3e8d85c73b7b8
583e16839ff0075d8d8145c7995c8e241000396b
d3cf7928a513c64bc18cd40ce10b20da68d43bcf
c9f0720aaf8d3fa604dc2be30e32e3cad399debfbf
33f7f574ca7f31d0da1aca48979166629862abb0
```

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3) `awk -F ':' '{print $1}' empreintes.txt | grep -io '^[^/]*\.jpg'`

```
> awk -F ':' '{print $1}' empreintes.txt | grep -io '^[^/]*\.jpg'
lAK8umyzt.jpg
p1fVg.JPG
A5qcMU.jpg
30xvKkjfC20n.jpg
37upDoRa.jpg
WVVTM.JPG
gAXwFpLxnEF.jpg
RPIuFmrim.jpg
vrJpP4.jpg
nzYC13i.jpg
```

4) `nano cpjpgfile.sh`

`#!/bin/bash`

`# Auteur : korasrar`

`mkdir -p Outputs`

`cpt=1`

`for file in $(find . -type f -iname "*.jpg");`

`do`

`file=$(echo "$file" | grep -io '^[^/]*\.jpg')`

`prefix3=${file::3}`

`cp "$file" "Outputs/fichier_${prefix3}_num_${cpt}.jpg"`

`cpt=$((cpt+1))`

`done`

`chmod +x cpjpgfile.sh`

`./cpjpgfile.sh`

`ls Outputs`

```
> ls Outputs
fichier_0AB_num_21.jpg  fichier_F90_num_26.jpg  fichier_VEr_num_114.jpg  fichier_iM7_num_32.jpg
fichier_0Qi_num_122.jpg  fichier_F9f_num_131.jpg  fichier_W5A_num_18.jpg  fichier_iT7_num_67.jpg
fichier_0to_num_83.jpg  fichier_FEq_num_104.jpg  fichier_W8x_num_47.jpg  fichier_ieV_num_25.jpg
fichier_1Tw_num_125.jpg  fichier_GWe_num_14.jpg  fichier_WVV_num_6.jpg  fichier_l8h_num_101.jpg
fichier_1g7_num_40.jpg  fichier_H4Z_num_20.jpg  fichier_Wg7_num_135.jpg  fichier_lAK_num_1.jpg
fichier_2CG_num_42.jpg  fichier_IBM_num_109.jpg  fichier_X8X_num_46.jpg  fichier_lZo_num_53.jpg
fichier_2mb_num_72.jpg  fichier_ILK_num_44.jpg  fichier_Xdk_num_22.jpg  fichier_mDt_num_52.jpg
fichier_2rT_num_36.jpg  fichier_IMK_num_11.jpg  fichier_YpS_num_28.jpg  fichier_mKV_num_138.jpg
fichier_30x_num_4.jpg  fichier_IiB_num_29.jpg  fichier_Yuu_num_41.jpg  fichier_n2h_num_58.jpg
fichier_37u_num_5.jpg  fichier_JLI_num_35.jpg  fichier_Z9E_num_140.jpg  fichier_nzY_num_10.jpg
```

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Avant tout il faut se donner les permissions sur tout les fichier de type image pour la commande shasum :

```
find . -type f \( -iname '*.jpg' -o -iname '*.tif' -o -iname '*.bmp' -o -iname '*.gif' -o -iname '*.png' \) -exec chmod 700 {} \;
```

```
5 ) dico=$(find . -type f -exec file {} \; | grep 'image' | awk -F : '{print $1}' | xargs shasum | awk '{print$2":"$1}')
```

or

```
dico=$(find . -type f \( -iname '*.jpg' -o -iname '*.tif' -o -iname '*.bmp' -o -iname '*.gif' -o -iname '*.png' \) -exec shasum {} \; | awk '{print $2":"$1}')
```

echo \$dico

```
./5urH63mE/5v5Qz1c/KZgRhZ2jBw1/mAHxhbA.png:680b71a5ce339950b6d5b54f8ecd7d7069eecd5  
./5urH63mE/5v5Qz1c/0FDvh/Tf7lR9tM5g/zsAsfGqOWWb9So/GjJhvgDTTLfu.tif:816809f678945f2ccfeb9e75a04b30794a56cfff  
./5urH63mE/5v5Qz1c/0FDvh/Tf7lR9tM5g/KNvIx86Pa7h.tif:1505c3521999e27b53b0588b07a57066c61d6fad  
./5urH63mE/5v5Qz1c/0FDvh/Tf7lR9tM5g/Nragtd6XaV/nFFCK8at1rG.tif:443d85418faac35382352735567b3cb6cb4d270a  
./5urH63mE/5v5Qz1c/0FDvh/Tf7lR9tM5g/BTBb0cvSD6gwpD/rw48Q.Gif:9600f37fbf817f10175b15453e96fbbdc1b4bf91  
./5urH63mE/5v5Qz1c/0FDvh/Q5P9UUmVnT1kZ7/P5tVbTqIV4kM.png:32f843619bfa9caefb12507e4f693ef567d61397  
./5urH63mE/5v5Qz1c/0FDvh/Q5P9UUmVnT1kZ7/Fiprod/DAGTgGA.tif:e3740623b933b76546e58abc6900b6f6d6baf988  
./5urH63mE/5v5Qz1c/0FDvh/Q5P9UUmVnT1kZ7/S1qDdHpX40Dwn/ff08EGJ7.png:941c9b5c969f0b0a73b490fcc4eebe19d422a331  
./5urH63mE/5v5Qz1c/0FDvh/Q5P9UUmVnT1kZ7/hlke4g9Vq/piBEbILtMJ.tif:ad6a21faea80f568b57df95e18d9d82859339e64  
./5urH63mE/5v5Qz1c/0FDvh/JNTKM8E/4KHivHe56X/mKV4Pi5C.jpg:2f3c599d3c1e65d56ea3496eb9391af0cf3cb49f
```

TP2 SYNTHÈSE BASH

```
8 ) nano cpimageall.sh
chmod +x cpimageall.sh
./cpimageall.sh
#!/bin/bash
#Auteur : korasrar
```

```
mkdir -p Outputs
cpt=1
```

```
declare -A name
```

```
for file in $(find . -type f -exec file {} \; | grep 'image' | awk -F : '{print $1}');
do
    res=$(shasum "$file" | awk '{print $1}')
    if [[ -z "${name["$res"]}" ]]; then
        file=$(basename "$file")
        prefix3=${file::3}
        output="Outputs/fichier_${prefix3}_num_${cpt}.jpg"
        magick $file $output
        cpt=$((cpt+1))
        name["$res"]="$file"
    fi
done
```

```
9 ) mogrify -gravity center -crop 200x260+0+0 Outputs/*.jpg
10 ) montage Outputs/*.jpg -tile 10x -geometry 200x260
./mosaique.jpg
```

SOURCES :

pour awk et sed

<https://unix.stackexchange.com/questions/113515/how-to-modify-output-in-bash-command-pipeline>

