

# find examples

Find and extract all rar files in subfolders into the current folder:

```
find . -name *.rar -exec unrar x {} \;
```

Find duplicate files:

```
find . ! -empty -type f -exec md5sum {} + | sort | uniq -w32 -dD
```

Find duplicate filenames:

```
find . -mindepth 1 -printf '%h %f\n' | sort -t ' ' -k 2,2 | uniq -f 1 --all-repeated=separate | tr ' ' '/'
```

Find files older than 7 years:

```
find . -mtime +2555 -print
```

Find directories containing files older than 30 days:

```
find . -type f -mtime +30 -printf '%h\n' | sort | uniq > old.txt
```

Find directories containing ONLY files older than 30 days (not working with subdirs properly):

```
find . -type f -mtime +30 -printf '%h\n' | sort | uniq > old.txt  
find . -type f -mtime -30 -printf '%h\n' | sort | uniq > new.txt  
grep -vf new.txt old.txt
```

Remove all old temporary MS Office lock files:

```
find . -type f -mtime +10 -name "~*" -print0 | xargs -r0 rm --
```

Show top level folders and full file count and file count>7years:

```
find . -maxdepth 1 -type d -print0 -exec echo -n " " \; -exec sh -c "find  
'{}' -type f | wc -l | tr -d '\n'" \; -exec echo -n " " \; -exec sh -c "find  
'{}' -type f -mtime +2555 | wc -l" \;
```

Convert tabs to spaces at the beginning of lines in source code:

```
find . -iname '*.php' -type f -exec bash -c 'expand -i -t 4 "$0" > /tmp/e &&  
mv /tmp/e "$0"' {} \;
```

Better with 'sponge' from the moreutils package as it retains permissions:

```
find . -iname '*.php' -type f -exec bash -c 'expand -i -t 4 "$0" | sponge  
"$0"' {} \;
```

Fixing permissions of directories / files of a path:

```
find /path/to/base/dir -type d -print0 | xargs -0 chmod 755  
find /path/to/base/dir -type f -print0 | xargs -0 chmod 644
```

From:

<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:

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Last update: **2023/05/29 11:53**

