

# DevOrSysAdminScripts

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## Abstract

Some “small” useful scripts for enhancing development or system-administrators tasks

Current version: 2024-05-05

Current number of commits: 31

Current git SHA1: 740651adbc657a8e59c0d22c0598d0d39e8d8e3a

Code lines: 1608 total lines, 1608 not empty lines, 0 empty lines.

## 1 Files tree

```
.
├── build_and_checks_dependencies
│   ├── build_and_checks.sh.tpl
│   ├── build_readme.sh
│   ├── check_shell_scripts_beginning.sh
│   ├── check_URLs.sh
│   ├── common_build_and_checks.sh
│   ├── common_build_and_checks.sh.tpl
│   ├── create_PDF.sh
│   ├── get_common_text_glob_patterns.sh
│   ├── lines_counts.sh
│   ├── lines_filters.sh
│   ├── python_black_complement.sh
│   ├── too_long_code_lines.sh
│   └── update_common_build_and_checks.sh
├── build_and_checks.sh
├── COPYING
├── COPYING.LESSER
├── git_checks.sh
├── latex
└── DevOrSysAdminScripts.tex.tpl
```

```

├── LiensUtiles.txt
├── pre-commit
├── README_printable.md
└── wget_sha512.sh

```

3 directories, 22 files

```

[4.0K May  5 12:19] ./
├── [4.0K May  5 12:19] build_and_checks_dependencies/
│   ├── [1.4K May  4 02:33] build_and_checks.sh.tpl*
│   ├── [1.4K May  4 02:24] build_readme.sh*
│   ├── [1.0K May  5 10:54] check_shell_scripts_beginning.sh
│   ├── [1.7K May  5 02:38] check_URLs.sh
│   ├── [4.7K May  5 12:19] common_build_and_checks.sh*
│   ├── [3.3K May  5 12:18] common_build_and_checks.sh.tpl
│   ├── [4.6K May  5 12:18] create_PDF.sh*
│   ├── [1.2K May  5 10:05] get_common_text_glob_patterns.sh
│   ├── [1.5K May  5 12:17] lines_counts.sh
│   ├── [2.1K May  5 12:17] lines_filters.sh
│   ├── [1.3K May  4 02:24] python_black_complement.sh
│   ├── [1.1K May  5 01:24] too_long_code_lines.sh
│   └── [2.0K May  5 10:18] update_common_build_and_checks.sh*
├── [1.5K May  5 12:19] build_and_checks.sh*
├── [ 34K May  4 02:24] COPYING
├── [7.5K May  3 21:45] COPYING.LESSER
├── [2.2K May  4 02:24] git_checks.sh
├── [4.0K May  5 12:19] latex/
│   └── [6.6K May  5 10:58] DevOrSysAdminScripts.tex.tpl
├── [ 424 May  3 21:45] LiensUtiles.txt
├── [1.0K May  5 10:20] pre-commit
├── [1.6K May  4 18:50] README_printable.md
└── [1.1K May  4 02:52] wget_sha512.sh

```

3 directories, 22 files

## 2 Listing of files

The following source code is covered by LGPLv3+. The text of the license is available at: <https://www.gnu.org/licenses/>. The git repository of this source code is also available at: <https://github.com/LLyaudet/DevOrSysAdminScripts/>.

### 2.1 build\_and\_checks\_dependencies/build\_and\_checks.sh.tpl

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.

```

```

3  #
4  # DevOrSysAdminScripts is free software:
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6  # of the GNU Lesser General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
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16 # See the GNU Lesser General Public License for more details.
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20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 source ./wget_sha512.sh
26
27 mkdir -p build_and_checks_dependencies
28 subdir="build_and_checks_dependencies"
29
30 personal_github="https://raw.githubusercontent.com/LLyaudet/"
31 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
32 URL_beginning="$personal_github$dependencies"
33
34 script="$URL_beginning/common_build_and_checks.sh"
35 @sha512_common_build_and_checks.sh@
36 wget_sha512 "$subdir/common_build_and_checks.sh" "$script" \
37   "$correct_sha512"
38 chmod +x "$subdir/common_build_and_checks.sh"
39
40 cwd="."
41 if [[ -n "$1" ]];
42 then
43   cwd="$1"
44 fi
45
46 ./build_and_checks_dependencies/common_build_and_checks.sh "$cwd"

```

## 2.2 build\_and\_checks\_dependencies/build\_readme.sh

```
1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
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20 # along with DevOrSysAdminScripts.
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22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 sed_expression='s/(\[[a-zA-Z0-9:-]*\]: [^\n\\]*)\\n/\\1/Mg'
26 sed_expression+=';s/(<http[^\n\\]*)\\n/\\1/Mg'
27 sed_expression+=';s/(- <http[^\n\\]*)\\n/\\1/Mg'
28
29 pushd .
30 if [[ -n "$1" ]];
31 then
32     cd "$1"
33 fi
34
35 if [[ -f README_printable.md ]];
36 then
37     sed -Ez "$sed_expression" README_printable.md > README_temp1.md
38     sed -Ez "$sed_expression" README_temp1.md > README_temp2.md
39     sed -Ez "$sed_expression" README_temp2.md > README_temp3.md
40     sed -Ez "$sed_expression" README_temp3.md > README.md
41     rm README_temp1.md README_temp2.md README_temp3.md
42 else
43     echo "No file README_printable.md"
44 fi
```

45  
46 popd

### 2.3 build\_and\_checks\_dependencies/check\_shell\_scripts\_beginning.sh

```
1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
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22 #
23 # ©Copyright 2023–2024 Laurent Lyaudet
24
25 check_one_shell_script_beginning(){
26     diff <(head -n 1 "$1") <(echo '#!/usr/bin/env bash')
27 }
28
29
30 check_shell_scripts_beginning(){
31     shopt -s globstar
32     for i in **/*.sh; do
33         check_one_shell_script_beginning "$i"
34     done
35 }
```

### 2.4 build\_and\_checks\_dependencies/check\_URLs.sh

```
1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
```

```

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22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 check_URLs() {
29     get_common_text_glob_patterns
30
31     declare -A substitutions
32     substitutions=(\
33         ["http://www.gnu.org/licenses/"]="https://www.gnu.org/licenses/"\
34     )
35
36     for pattern in "${common_patterns[@]}; do
37         [ "$1" != "-v" ] || echo "Iterating on pattern: $pattern"
38         grep -r -H 'http:' -- $pattern | grep -v "^[^:]*check_URLs.sh"
39         for filename in $pattern; do
40             [ -f "$filename" ] || continue
41             base_filename=$(basename "$filename")
42             [ "$base_filename" != "check_URLs.sh" ] || continue
43             [ "$1" != "-v" ] || echo "Handling the file: $filename"
44             for substitution in "${!substitutions[@]}; do
45                 substitution2=${substitutions[$substitution]}
46                 if grep -q "$substitution" "$filename"; then
47                     sed -i "s|$substitution|$substitution2|g" "$filename"
48                 fi
49             done

```

```

50     done
51     done
52 }

```

## 2.5 build\_and\_checks\_dependencies/common\_build\_and\_checks.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Lyaudet
24
25 source ./wget_sha512.sh
26
27 personal_github="https://raw.githubusercontent.com/LLyaudet/"
28 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
29 URL_beginning="$personal_github$dependencies"
30
31 subdir="build_and_checks_dependencies"
32
33 script="$URL_beginning/build_readme.sh"
34 correct_sha512='a60224c89e6dd94360057bba41ba30b83b4b84c11679a779e3f46'
35 correct_sha512+='f4187fe5ae65b970c1cc5e5ce15bd39f0fe8c589abd153d4c57a'
36 correct_sha512+='3277c209303d0de9926b234'
37 wget_sha512 "$subdir/build_readme.sh" "$script" "$correct_sha512"
38 chmod +x "$subdir/build_readme.sh"
39
40 script="$URL_beginning/check_shell_scripts_beginning.sh"

```

```

41 correct_sha512='faf7fe1c59b177d0f74afee6e8fb94e14bf7041b74a36afc41d6d'
42 correct_sha512+='e71b6325af1d42f5c816024d311751d6e40c197c52ac97188c9c'
43 correct_sha512+='e75ea4937b966d2b0ff4ac7'
44 wget_sha512 "$subdir/check_shell_scripts_beginning.sh" "$script" \
45     "$correct_sha512"
46
47 script="$URL_beginning/check_URLs.sh"
48 correct_sha512='bc790a05ce8e6b9241c3c32a0d6f2efb7c96447cf1fd095301ab4'
49 correct_sha512+='6ed20f739a071d8a8c0a88bcaf189bdc9f3ad05d5b5e888805'
50 correct_sha512+='ed0bf0333b229f49e62a613'
51 wget_sha512 "$subdir/check_URLs.sh" "$script" "$correct_sha512"
52
53 script="$URL_beginning/create_PDF.sh"
54 correct_sha512='3dcbff5ca4b0e0210f1e09414d4e6b087f147e868e9b139f38e59'
55 correct_sha512+='643b5efa4ed8ace609ec240d223a71a981fb735051cefec189b2'
56 correct_sha512+='7e9553779828517543006a3'
57 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"
58 chmod +x "$subdir/create_PDF.sh"
59
60 script="$URL_beginning/get_common_text_glob_patterns.sh"
61 correct_sha512='5f675b7ed8713bc87cb032773edcddb1da75e718dc6048720e1c7'
62 correct_sha512+='fd4bdf9b6f0d0a0d2faf657679e9c88617163602acea6f653de8'
63 correct_sha512+='6656088ba2226706f0af6f1'
64 wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script" \
65     "$correct_sha512"
66
67 script="$URL_beginning/lines_counts.sh"
68 correct_sha512='208648e8838accb2edaf3f8f93c2ab38a84658074ab99cbffe89'
69 correct_sha512+='561dfcffd7fd546c50c0aad3afed305b148d4e483c7ec02c926d'
70 correct_sha512+='8b2ffdb2ac893b2eabdcab9'
71 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
72
73 script="$URL_beginning/lines_filters.sh"
74 correct_sha512='c07935ee244f3a2323985da131ffb6602787dceebd3ded5e0d668'
75 correct_sha512+='5be4c0e702ce14592ed1649e3fdbb0dd60412dde655230166906'
76 correct_sha512+='47b7226c6bb8a8655d2f7b5'
77 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
78
79 script="$URL_beginning/python_black_complement.sh"
80 correct_sha512='909ab2453a3448b45e92c60df216d86578528d5151bc8c5efb50b'
81 correct_sha512+='c8c4007d4c34adc7b2d583f3f5d9629cf37f163c813aebc3dec2'
82 correct_sha512+='ce6370fcf1bdblbea5820ab13'
83 wget_sha512 "$subdir/python_black_complement.sh" "$script" \
84     "$correct_sha512"
85
86 script="$URL_beginning/too_long_code_lines.sh"

```



```

87 correct_sha512='94e209899adc7a8a165e08590a294fc29b8006900cb7eafc9bf95'
88 correct_sha512+='6ac9e2f659c6dccf1a55ffb4af1ce08743bf05ff6dc7e5768868'
89 correct_sha512+='78eddf56243972cecf4352'
90 wget_sha512 "$subdir/too_long_code_lines.sh" "$script"\
91     "$correct_sha512"
92
93 shopt -s globstar
94 source "$subdir/check_shell_scripts_beginning.sh"
95 source "$subdir/check_URLs.sh"
96 source "$subdir/get_common_text_glob_patterns.sh"
97 source "$subdir/lines_counts.sh"
98 source "$subdir/lines_filters.sh"
99 source "$subdir/python_black_complement.sh"
100 source "$subdir/too_long_code_lines.sh"
101
102 cwd="."
103 if [[ -n "$1" ]];
104 then
105     cwd="$1"
106 fi
107
108 echo "Building README.md"
109 ./build_and_checks_dependencies/build_readme.sh "$cwd"
110
111 pushd .
112 cd "$cwd"
113
114 echo "Running isort"
115 isort .
116
117 echo "Running black"
118 black .
119 python_black_complement
120
121 echo "Running mypy"
122 mypy .
123
124 echo "Analyzing too long lines"
125 too_long_code_lines | relevant_grep
126
127 echo "Analyzing shell scripts beginning"
128 check_shell_scripts_beginning | relevant_grep
129
130 echo "Analyzing URLs"
131 check_URLs | relevant_grep
132

```

```

133 echo "Creating the PDF file of the listing of the source code"
134 ./build_and_checks_dependencies/create_PDF.sh
135
136 popd

```

## 2.6 build\_and\_checks\_dependencies/common\_build\_and\_checks.sh.tpl

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Lyaudet
24
25 source ./wget_sha512.sh
26
27 personal_github="https://raw.githubusercontent.com/LLyaudet/"
28 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
29 URL_beginning="$personal_github$dependencies"
30
31 subdir="build_and_checks_dependencies"
32
33 script="$URL_beginning/build_readme.sh"
34 @sha512_build_readme.sh@
35 wget_sha512 "$subdir/build_readme.sh" "$script" "$correct_sha512"
36 chmod +x "$subdir/build_readme.sh"
37
38 script="$URL_beginning/check_shell_scripts_beginning.sh"
39 @sha512_check_shell_scripts_beginning.sh@

```

```

40 wget_sha512 "$subdir/check_shell_scripts_beginning.sh" "$script"\
41     "$correct_sha512"
42
43 script="$URL_beginning/check_URLs.sh"
44 @sha512_check_URLs.sh@
45 wget_sha512 "$subdir/check_URLs.sh" "$script" "$correct_sha512"
46
47 script="$URL_beginning/create_PDF.sh"
48 @sha512_create_PDF.sh@
49 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"
50 chmod +x "$subdir/create_PDF.sh"
51
52 script="$URL_beginning/get_common_text_glob_patterns.sh"
53 @sha512_get_common_text_glob_patterns.sh@
54 wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script"\
55     "$correct_sha512"
56
57 script="$URL_beginning/lines_counts.sh"
58 @sha512_lines_counts.sh@
59 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
60
61 script="$URL_beginning/lines_filters.sh"
62 @sha512_lines_filters.sh@
63 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
64
65 script="$URL_beginning/python_black_complement.sh"
66 @sha512_python_black_complement.sh@
67 wget_sha512 "$subdir/python_black_complement.sh" "$script"\
68     "$correct_sha512"
69
70 script="$URL_beginning/too_long_code_lines.sh"
71 @sha512_too_long_code_lines.sh@
72 wget_sha512 "$subdir/too_long_code_lines.sh" "$script"\
73     "$correct_sha512"
74
75 shopt -s globstar
76 source "$subdir/check_shell_scripts_beginning.sh"
77 source "$subdir/check_URLs.sh"
78 source "$subdir/get_common_text_glob_patterns.sh"
79 source "$subdir/lines_counts.sh"
80 source "$subdir/lines_filters.sh"
81 source "$subdir/python_black_complement.sh"
82 source "$subdir/too_long_code_lines.sh"
83
84 cwd="."
85 if [[ -n "$1" ]];

```

```

86 then
87     cwd="$1"
88 fi
89
90 echo "Building README.md"
91 ./build_and_checks_dependencies/build_readme.sh "$cwd"
92
93 pushd .
94 cd "$cwd"
95
96 echo "Running isort"
97 isort .
98
99 echo "Running black"
100 black .
101 python_black_complement
102
103 echo "Running mypy"
104 mypy .
105
106 echo "Analyzing too long lines"
107 too_long_code_lines | relevant_grep
108
109 echo "Analyzing shell scripts beginning"
110 check_shell_scripts_beginning | relevant_grep
111
112 echo "Analyzing URLs"
113 check_URLs | relevant_grep
114
115 echo "Creating the PDF file of the listing of the source code"
116 ./build_and_checks_dependencies/create_PDF.sh
117
118 popd

```

## 2.7 build\_and\_checks\_dependencies/create\_PDF.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
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```

```

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22 #
23 # ©Copyright 2023–2024 Laurent Lyaudet
24
25 current_path=$(pwd)
26 main_directory=$(basename $current_path)
27
28 subdir="build_and_checks_dependencies"
29 source "$subdir/lines_counts.sh"
30 source "$subdir/lines_filters.sh"
31
32 cp "$main_directory.tex.tpl" \
33    "$main_directory.tex"
34 # We need a variant of the template with long lines.
35 cp "$main_directory.tex.tpl" \
36    "$main_directory.tex.tpl2"
37 sed -i -Ez "s/%%\n/Mg" "$main_directory.tex.tpl2"
38
39 current_date=$(date -I"date")
40 sed -i "s|@current_date@|$current_date|g" \
41    "$main_directory.tex"
42
43 current_git_SHA1=$(git rev-parse HEAD)
44 sed -i "s|@current_git_SHA1@|$current_git_SHA1|g" \
45    "$main_directory.tex"
46
47 number_of_commits=$(git shortlog | space_starting_lines | wc -l)
48 sed -i "s|@number_of_commits@|$number_of_commits|g" \
49    "$main_directory.tex"
50
51 number_of_lines="$(code_lines_count_all) total lines,"
52 number_of_lines+=" $(code_lines_count_not_empty) not empty lines,"
53 number_of_lines+=" $(code_lines_count_empty) empty lines."
54 sed -i "s|@number_of_lines@|$number_of_lines|g" \
55    "$main_directory.tex"
56

```

```

57 tree --gitignore\
58   -I "$main_directory.aux"\
59   -I "$main_directory.log"\
60   -I "$main_directory.out"\
61   -I "$main_directory.pdf"\
62   -I "$main_directory.tex"\
63   -I "$main_directory.tex.tpl2"\
64   -I current_tree.txt\
65   -I current_tree_light.txt\
66   -I README.md\
67   > current_tree_light.txt
68
69 tree -DFh --gitignore\
70   -I "$main_directory.aux"\
71   -I "$main_directory.log"\
72   -I "$main_directory.out"\
73   -I "$main_directory.pdf"\
74   -I "$main_directory.tex"\
75   -I "$main_directory.tex.tpl2"\
76   -I current_tree.txt\
77   -I current_tree_light.txt\
78   -I README.md\
79   > current_tree.txt
80
81 shopt -s dotglob
82 find * -type f | relevant_find | sort | while read filename; do
83   [ -f "$filename" ] || continue
84   git check-ignore -q "$filename" && continue
85   base_filename=$(basename "$filename")
86   [ "$base_filename" != "current_tree_light.txt" ] || continue
87   [ "$base_filename" != "current_tree.txt" ] || continue
88   [ "$base_filename" != "COPYING" ] || continue
89   [ "$base_filename" != "COPYING.LESSER" ] || continue
90   [ "$base_filename" != "README.md" ] || continue
91   [ "$base_filename" != "$main_directory.pdf" ] || continue
92   [ "$base_filename" != "$main_directory.tex" ] || continue
93   [ "$base_filename" != "$main_directory.tex.tpl2" ] || continue
94   [[ "$base_filename" =~ "\.tar.gz" ]] && continue
95   [[ "$base_filename" =~ "\.whl" ]] && continue
96   cleaned_path1=$(sed -e 's/_/\./g' <(echo "$filename"))
97   cleaned_path2=$(sed -e 's/\/:/g' -e 's/\./g' <(echo "$filename"))
98   if grep -q " $filename\$" ". /latex/$main_directory.tex.tpl2"; then
99     echo ""
100     # sed -i -Ez\
101     #   "s/$filename\n/\
102     #   ${filename/./\./g}\\hyperref\{{filename/./\./g}}\n/Mg"\

```

```

103     # "current_tree_light.txt"
104 else
105     echo "The file $filename is not listed"\
106         " in ./latex/$main_directory.tex.tpl"
107     echo "TODO:\subsection{"
108     echo "TODO: $cleaned_path1"
109     echo "TODO:}"
110     echo "TODO:\label{"
111     echo "TODO: $cleaned_path2"
112     echo "TODO:}"
113     echo "TODO:"
114     echo "TODO:\VerbatimInput[numbers=left,xleftmargin=-5mm] {"
115     echo "TODO: $filename"
116     echo "TODO:}"
117     echo "TODO:"
118     echo "TODO:"
119 fi
120 done
121 shopt -u dotglob
122 shopt -s globstar
123
124 sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}'\
125     "./latex/$main_directory.tex"
126 sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}'\
127     "./latex/$main_directory.tex"
128
129 pdflatex "./latex/$main_directory.tex" > /dev/null
130 pdflatex "./latex/$main_directory.tex" > /dev/null
131 pdflatex "./latex/$main_directory.tex" > /dev/null
132
133 files_to_delete=(\
134     "$main_directory.aux"\
135     "$main_directory.log"\
136     "$main_directory.out"\
137     "current_tree.txt"
138     "current_tree_light.txt"
139     "./latex/$main_directory.tex.tpl2"
140 )
141 # Comment the following line if you need to debug.
142 for filename in "${files_to_delete[@]}; do
143     rm -f $filename
144 done

```

## 2.8 build\_and\_checks\_dependencies/get\_common\_text\_glob\_patterns.sh

```
1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
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6  # of the GNU Lesser General Public License
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9  # or (at your option) any later version.
10 #
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22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 get_common_text_glob_patterns() {
26     export common_patterns=(\
27         '**/*.c' \
28         '**/*.css' \
29         '**/*.h' \
30         '**/*.htm' \
31         '**/*.html' \
32         '**/*.js' \
33         '**/*.json' \
34         '**/*.md' \
35         '**/*.php' \
36         '**/*.py' \
37         '**/*.sh' \
38         '**/*.sql' \
39         '**/*.tex' \
40         '**/*.toml' \
41         '**/*.tpl' \
42         '**/*.ts' \
43         '**/*.txt' \
44         '**/*.yaml' \
```



```

45     '**/COPYING' \
46     '**/COPYING.LESSER' \
47     '**/pre-commit' \
48 )
49 }

```

## 2.9 build\_and\_checks\_dependencies/lines\_counts.sh

```

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2  # This file is part of DevOrSysAdminScripts library.
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22 #
23 # Copyright 2023-2024 Laurent Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27 source "$subdir/lines_filters.sh"
28
29 all_code_lines() {
30     get_common_text_glob_patterns
31     for pattern in "${common_patterns[@]}; do
32         [ "$1" != "-v" ] || echo "Iterating on pattern: $pattern"
33         grep -r -H -v 'a(?!a)a' -- $pattern
34     done
35 }
36
37 all_self_code_lines() {
38     all_code_lines | relevant_grep

```

```

39 }
40
41 all_self_empty_code_lines(){
42     all_self_code_lines | empty_lines
43 }
44
45 all_self_not_empty_code_lines(){
46     all_self_code_lines | not_empty_lines
47 }
48
49 code_lines_count_all(){
50     all_self_code_lines | wc -l
51 }
52
53 code_lines_count_empty(){
54     all_self_empty_code_lines | wc -l
55 }
56
57 code_lines_count_not_empty(){
58     all_self_not_empty_code_lines | wc -l
59 }

```

## 2.10 build\_and\_checks\_dependencies/lines\_filters.sh

```

1  #!/usr/bin/env bash
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22 #

```

```

23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 # The goal of ths file is to have some common line filters
26 # for bash processing and pipes.
27 # As is the case for other .sh files in this repository,
28 # it can be copied somewhere in your home directory
29 # and sourced in your .bashrc.
30
31 empty_lines() {
32     grep '^$'
33 }
34
35 not_empty_lines() {
36     grep -v '^$'
37 }
38
39 space_starting_lines() {
40     grep '^[ ]'
41 }
42
43 not_space_starting_lines() {
44     grep '^[^ ]'
45 }
46
47 not_JS_dependencies_find() {
48     grep -vE "(^|/)node_modules/" | grep -vE "(^|/)package-lock\.json$"
49 }
50
51 not_JS_dependencies_grep() {
52     grep -v "^[^:]*node_modules/" | grep -v "^[^:]*package-lock\.json:"
53 }
54
55 not_dependencies_find() {
56     not_JS_dependencies_find
57 }
58
59 not_dependencies_grep() {
60     not_JS_dependencies_grep
61 }
62
63 not_python_cache_find() {
64     grep -vE "(^|/).__pycache__/" | grep -vE "(^|/)\.mypy_cache/"
65 }
66
67 not_python_cache_grep() {
68     grep -v "^[^:]*__pycache__/" | grep -v "^[^:]*\.mypy_cache/"

```

```

69 }
70
71 not_cache_find() {
72     not_python_cache_find
73 }
74
75 not_cache_grep() {
76     not_python_cache_grep
77 }
78
79 not_git_find() {
80     grep -vE "(^|/)\.git/"
81 }
82
83 not_git_grep() {
84     grep -v "^[^:]*\.git/"
85 }
86
87 not_archive_find() {
88     grep -vE "(\.gz|\.tar|\.whl)$"
89 }
90
91 not_archive_grep() {
92     grep -vE "^[^:]*(\.gz|\.tar|\.whl):"
93 }
94
95 relevant_find() {
96     not_dependencies_find | not_cache_find | not_git_find\
97     | not_archive_find
98 }
99
100 relevant_grep() {
101     not_dependencies_grep | not_cache_grep | not_git_grep\
102     | not_archive_grep
103 }

```

## 2.11 build\_and\_checks\_dependencies/python\_black\_complement.sh

```

1  #!/usr/bin/env bash
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```

```

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24
25 # It was rejected to enhance black with this currently.
26 # And moreover, at some point, I saw the reverse rule
27 # in black or pylint to add an empty line...
28 # This regexp may give false positives,
29 # but that's not the end of the world.
30 check_no_empty_line_after_python_function_docstring() {
31     echo "Checking empty lines after Python function docstrings"
32     pcregrep -M '$'def [^"]*"([^\"]|"(?!"))*"\"\\n\\n(?:\\s*def)'\\
33         -- **/*.py
34 }
35
36 python_black_complement() {
37     check_no_empty_line_after_python_function_docstring
38 }

```

## 2.12 build and checks dependencies/too\_long\_code\_lines.sh

```

1  #!/usr/bin/env bash
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```

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24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 too_long_code_lines(){
29     get_common_text_glob_patterns
30     for pattern in "${common_patterns[@]"; do
31         [ "$1" != "-v" ] || echo "Iterating on pattern: $pattern"
32         grep -r -H '\.\{71\}' -- $pattern
33     done
34 }

```

### 2.13 build\_and\_checks\_dependencies/update\_common\_build\_and\_checks.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
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22 #

```

```

23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 cp ./common_build_and_checks.sh.tpl ./common_build_and_checks.sh
26
27 file_names=(\
28     "build_readme.sh"\
29     "check_shell_scripts_beginning.sh"\
30     "check_URLs.sh"\
31     "create_PDF.sh"\
32     "lines_counts.sh"\
33     "lines_filters.sh"\
34     "get_common_text_glob_patterns.sh"\
35     "python_black_complement.sh"\
36     "too_long_code_lines.sh"\
37 )
38
39 for file_name in "${file_names[@]}; do
40     file_sha512=$(sha512sum "$file_name" | cut -f1 -d' ')
41     file_sha512_1="correct_sha512='${file_sha512:0:53}' "
42     file_sha512_2="correct_sha512\+='${file_sha512:53:52}' "
43     file_sha512_3="correct_sha512\+='${file_sha512:105}' "
44     file_sha512_all="$file_sha512_1\n"
45     file_sha512_all+="$file_sha512_2\n"
46     file_sha512_all+="$file_sha512_3"
47     sed -i "s|@sha512_$file_name@|$file_sha512_all|g"\
48         ./common_build_and_checks.sh
49 done
50
51 cp ./build_and_checks.sh.tpl ../build_and_checks.sh
52
53 file_sha512=$(sha512sum common_build_and_checks.sh | cut -f1 -d' ')
54 file_sha512_1="correct_sha512='${file_sha512:0:53}' "
55 file_sha512_2="correct_sha512\+='${file_sha512:53:52}' "
56 file_sha512_3="correct_sha512\+='${file_sha512:105}' "
57 file_sha512_all="$file_sha512_1\n"
58 file_sha512_all+="$file_sha512_2\n"
59 file_sha512_all+="$file_sha512_3"
60 sed -i "s|@sha512_common_build_and_checks.sh@|$file_sha512_all|g"\
61     ../build_and_checks.sh

```

## 2.14 build\_and\_checks.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
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```

```

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21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 source ./wget_sha512.sh
26
27 mkdir -p build_and_checks_dependencies
28 subdir="build_and_checks_dependencies"
29
30 personal_github="https://raw.githubusercontent.com/LLyaudet/"
31 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
32 URL_beginning="$personal_github$dependencies"
33
34 script="$URL_beginning/common_build_and_checks.sh"
35 correct_sha512='eb0b25b317ba151bda4e4ddeb07b982d2ffee0cc8e12ea661416a'
36 correct_sha512+='29349ed03f1eea44f414c6ddb9eea95ae289ca91f5217c257713'
37 correct_sha512+='2be1d08a8cb8801d4511577'
38 wget_sha512 "$subdir/common_build_and_checks.sh" "$script" \
39 "$correct_sha512"
40 chmod +x "$subdir/common_build_and_checks.sh"
41
42 cwd="."
43 if [[ -n "$1" ]];
44 then
45     cwd="$1"
46 fi
47
48 ./build_and_checks_dependencies/common_build_and_checks.sh "$cwd"

```



## 2.15 git\_checks.sh

```
1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 check_files() {
26     send_summary_1="ATTENTION : models modifiés"
27     send_body_1="Vérifiez si besoin de migrations"
28     send_body_2="Pensez aussi aux contraintes d'unicités"
29     send_body_2+=" dès la création du modèle"
30     send_summary_2="ATTENTION : serializers modifiés"
31     send_body_3="Les nouveaux preloadings sont interdits -> #Prefetch()"
32     if git diff --cached --name-only | grep models;
33     then
34         notify-send "$send_summary_1" "$send_body_1"
35         notify-send "$send_summary_1" "$send_body_2"
36     fi
37     if git diff --cached --name-only | grep serializer;
38     then
39         notify-send "$send_summary_2" "$send_body_3"
40     fi
41     return 0
42 }
43
44
```

```

45 check_no_abusive_trailing_comma(){
46     send_summary_1="ATTENTION"
47     send_body_1="Il semblerait que vous affectiez un tuple"
48     send_body_1+=" au lieu d'une autre valeur dans une variable."
49     if git diff --cached -r | grep ' = .*,\s*$';
50     then
51         notify-send "$send_summary_1" "$send_body_1"
52         return 1
53     fi
54     return 0
55 }
56
57
58 check_black_code_formatting(){
59     # attention ça ne marche que sur les fichiers "stagés" avec git add
60     files_string=$(git diff --cached --name-only | grep '\.py')
61     echo "$files_string"
62     mapfile -t some_files <<< "$files_string"
63     my_error=0
64     for file in ${some_files[@]};
65     do
66         echo "Black will check formatting on file $file"
67         if ! black --check --diff "$file";
68         then
69             my_error=1
70         fi
71     done
72     if [ $my_error -eq '1' ];
73     then
74         return 1
75     fi
76     return 0
77 }

```

## 2.16 latex/DevOrSysAdminScripts.tex.tpl

```

1  %!/usr/bin/env bash
2  % This file is part of DevOrSysAdminScripts library.
3  %
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10 %

```

```

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21 % If not, see <https://www.gnu.org/licenses/>.
22 %
23 % ©Copyright 2023–2024 Laurent Lyaudet
24
25 \documentclass{article}
26
27 \usepackage[utf8]{inputenc}
28 \usepackage{subfigure}
29 \usepackage{amsmath}
30 \usepackage{amssymb}
31 \usepackage{amsthm}
32 \usepackage[pdftex]{hyperref}
33 \usepackage{tikz}
34 \usepackage{caption}
35 \usepackage[round]{natbib}
36 \usepackage{fancyhdr}
37 \usepackage{amsfonts}
38 \usepackage{times}
39 \usepackage{ifpdf}
40 \usepackage{latexsym}
41 \usepackage{graphicx}
42 \usepackage{enumerate}
43 \usepackage{pmboxdraw}
44 \usepackage{fancyvrb}
45
46 % *** les environnements ***
47 %\theoremstyle{break}
48 \newtheorem{definition}{Definition}[section]
49 \newtheorem{proposition}[definition]{Proposition}
50 \newtheorem{theorem}[definition]{Theorem}
51 \newtheorem{lemma}[definition]{Lemma}
52 \newtheorem{corollary}[definition]{Corollary}
53 \newtheorem{remark}[definition]{Remark}
54 \newtheorem{openproblem}[definition]{Open problem}
55
56 \begin{document}

```

```

57
58 \author{
59   Laurent Lyaudet\\
60   \url{https://lyaudet.eu/laurent/}\\
61   laurent.lyaudet@gmail.com
62 }
63 \title{DevOrSysAdminScripts}
64
65 \maketitle
66 \begin{abstract}
67   Some ``small'' useful scripts
68   for enhancing developpment or system-administrators tasks
69 \end{abstract}
70
71 Current version: @current_date@
72
73 Current number of commits: @number_of_commits@
74
75 Current git SHA1: @current_git_SHA1@
76
77 Code lines: @number_of_lines@
78
79 \section{Files tree}
80 \label{section:tree}
81
82 \begin{verbatim}
83 @current_tree_light@
84 \end{verbatim}
85
86 \begin{verbatim}
87 @current_tree@
88 \end{verbatim}
89
90 \section{Listing of files}
91 \label{section:listing}
92
93 The following source code is covered by LGPLv3+.
94 The text of the license is available at:
95 \url{https://www.gnu.org/licenses/}.
96 The git repository of this source code is also available at:
97 \url{https://github.com/LLyaudet/DevOrSysAdminScripts/}.
98
99
100 \subsection{
101   build\_and\_checks\_dependencies/build\_and\_checks.sh.tpl
102 }

```

```

103 \label{
104     build_and_checks_dependencies:build_and_checkshtml
105 }
106
107 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
108     build_and_checks_dependencies/build_and_checks.sh.tpl
109 }
110
111
112 \subsection{
113     build\_and\_checks\_dependencies/build\_readme.sh
114 }
115 \label{
116     build_and_checks_dependencies:build_readmesh
117 }
118
119 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
120     build_and_checks_dependencies/build_readme.sh
121 }
122
123
124 \subsection{
125     build\_and\_checks\_dependencies/check\_shell\_scripts\_beginning.sh
126 }
127 \label{
128     build_and_checks_dependencies:check_shell_scripts_beginningsh
129 }
130
131 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
132     build_and_checks_dependencies/check_shell_scripts_beginning.sh
133 }
134
135
136 \subsection{
137     build\_and\_checks\_dependencies/check\_URLs.sh
138 }
139 \label{
140     build_and_checks_dependencies:check_URLssh
141 }
142
143 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
144     build_and_checks_dependencies/check_URLs.sh
145 }
146
147
148 \subsection{

```

```

149   build\_and\_checks\_dependencies/common\_build\_and\_checks.sh
150 }
151 \label{
152   build_and_checks_dependencies:common_build_and_checksssh
153 }
154
155 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
156   build_and_checks_dependencies/common_build_and_checks.sh
157 }
158
159
160 \subsection{
161   build\_and\_checks\_dependencies/common\_build\_and\_checks.sh.tpl
162 }
163 \label{
164   build_and_checks_dependencies:common_build_and_checksssh.tpl
165 }
166
167 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
168   build_and_checks_dependencies/common_build_and_checks.sh.tpl
169 }
170
171
172 \subsection{
173   build\_and\_checks\_dependencies/create\_PDF.sh
174 }
175 \label{
176   build_and_checks_dependencies:create_PDFsh
177 }
178
179 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
180   build_and_checks_dependencies/create_PDF.sh
181 }
182
183
184 \subsection{
185   build\_and\_checks\_dependencies/get\_common\_text\_glob\_patterns%
186   .sh
187 }
188 \label{
189   build_and_checks_dependencies:get_common_text_glob_patternsssh
190 }
191
192 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
193   build_and_checks_dependencies/get_common_text_glob_patterns.sh
194 }

```

```

195
196
197 \subsection{
198     build\_and\_checks\_dependencies/lines\_counts.sh
199 }
200 \label{
201     build_and_checks_dependencies:lines_countssh
202 }
203
204 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
205     build_and_checks_dependencies/lines_counts.sh
206 }
207
208
209 \subsection{
210     build\_and\_checks\_dependencies/lines\_filters.sh
211 }
212 \label{
213     build_and_checks_dependencies:lines_filterssh
214 }
215
216 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
217     build_and_checks_dependencies/lines_filters.sh
218 }
219
220
221 \subsection{
222     build\_and\_checks\_dependencies/python\_black\_complement.sh
223 }
224 \label{
225     build_and_checks_dependencies:python_black_complementsh
226 }
227
228 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
229     build_and_checks_dependencies/python_black_complement.sh
230 }
231
232
233 \subsection{
234     build\_and\_checks\_dependencies/too\_long\_code\_lines.sh
235 }
236 \label{
237     build_and_checks_dependencies:too_long_code_linessh
238 }
239
240 \VerbatimInput[numbers=left,xleftmargin=-5mm]{

```

```

241   build_and_checks_dependencies/too_long_code_lines.sh
242 }
243
244
245 \subsection{
246   build\_and\_checks\_dependencies/update\_common\_build\_and\_checks%
247 .sh
248 }
249 \label{
250   build_and_checks_dependencies:update_common_build_and_checkssh
251 }
252
253 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
254   build_and_checks_dependencies/update_common_build_and_checks.sh
255 }
256
257
258 \subsection{
259   build\_and\_checks.sh
260 }
261 \label{
262   build_and_checkssh
263 }
264
265 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
266   build_and_checks.sh
267 }
268
269
270 \subsection{
271   git\_checks.sh
272 }
273 \label{
274   git_checkssh
275 }
276
277 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
278   git_checks.sh
279 }
280
281
282 \subsection{
283   latex/DevOrSysAdminScripts.tex.tpl
284 }
285 \label{
286   latex:DevOrSysAdminScriptstextpl

```



```

287 }
288
289 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
290     latex/DevOrSysAdminScripts.tex.tpl
291 }
292
293
294 \subsection{
295     LiensUtiles.txt
296 }
297 \label{
298     LiensUtilestxt
299 }
300
301 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
302     LiensUtiles.txt
303 }
304
305
306 \subsection{
307     pre-commit
308 }
309 \label{
310     pre-commit
311 }
312
313 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
314     pre-commit
315 }
316
317
318 \subsection{
319     README\_printable.md
320 }
321 \label{
322     README_printablemd
323 }
324
325 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
326     README_printable.md
327 }
328
329
330 \subsection{
331     wget\_sha512.sh
332 }

```

```

333 \label{
334     wget_sha512sh
335 }
336
337 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
338     wget_sha512.sh
339 }
340
341
342 Merci Dieu ! Merci P\`ere ! Merci Seigneur ! Merci Saint Esprit !
343
344 \end{document}

```

## 2.17 LiensUtiles.txt

```

1  https://support.google.com/a/answer/9476255?hl=fr#zippy=%2C%C3%A9tape\
2  -configurez-le-service-de-migration-de-donn%C3%A9es
3  https://stackoverflow.com/a/78413334/5796086
4  https://stackoverflow.com/questions/21612980/\
5  why-is-usr-bin-env-bash-superior-to-bin-bash/78413334
6  https://web.archive.org/web/20240501105801/https://stackoverflow.com/\
7  /questions/21612980/why-is-usr-bin-env-bash-superior-to-bin-bash/\
8  78413334#78413334

```

## 2.18 pre-commit

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
5  # you can redistribute it and/or modify it under the terms
6  # of the GNU Lesser General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.

```

```

21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 . ../git_checks.sh
26
27 git_hook_error=0
28 if ! check_files
29 then
30     git_hook_error=1
31 fi
32 if ! check_no_abusive_trailing_comma
33 then
34     git_hook_error=1
35 fi
36 if ! check_black_code_formatting
37 then
38     git_hook_error=1
39 fi
40 if [ $git_hook_error -eq '1' ];
41 then
42     exit 1
43 fi
44 exit 0

```

## 2.19 README\_printable.md

```

1 # DevOrSysAdminScripts
2
3 [[CodeFactor-badge]][CodeFactor-package-page]
4 [[CodeClimateMaintainability-badge]][CodeClimateM13y-package-page]
5 [[Codacy-badge]][Codacy-package-page]
6 ![GitHub-top-language-badge]
7 ![GitHub-license-badge]
8 ![GitHub-code-size-in-bytes-badge]
9
10 |               **Some "small" useful scripts**               |
11 |:-----:|
12 | **for enhancing developpment or system-administrators tasks** |
13
14 Currently, the biggest part of this repository is in
15 a suite of shell scripts about build and checks that
16 I use in some of my other repositories.
17
18
19 [CodeFactor-badge]: https://www.codefactor.io/repository/github/\

```

```

20 llyaudet/DevOrSysAdminScripts/badge
21
22 [CodeFactor-package-page]: https://www.codefactor.io/repository/\
23 github/llyaudet/DevOrSysAdminScripts
24
25 [CodeClimateMaintainability-badge]: https://api.codeclimate.com/v1/\
26 badges/b619ce83a81cc4a55e18/maintainability
27
28 [CodeClimateM13y-package-page]: https://codeclimate.com/\
29 github/LLyaudet/DevOrSysAdminScripts/maintainability
30
31 [Codacy-badge]: https://app.codacy.com/project/badge/Grade/\
32 3dd6ef85e8db4460991d1ebc404b68dd
33
34 [Codacy-package-page]: https://app.codacy.com/gh/LLyaudet/\
35 DevOrSysAdminScripts/dashboard?utm_source=gh&utm_medium=referral\
36 &utm_content=&utm_campaign=Badge_grade
37
38 [GitHub-top-language-badge]: https://img.shields.io/github/\
39 languages/top/llyaudet/DevOrSysAdminScripts
40
41 [GitHub-license-badge]: https://img.shields.io/github/license/\
42 llyaudet/DevOrSysAdminScripts
43
44 [GitHub-code-size-in-bytes-badge]: https://img.shields.io/github/\
45 languages/code-size/llyaudet/DevOrSysAdminScripts

```

## 2.20 wget\_sha512.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU Lesser General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #

```

```

18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Lyaudet
24
25 wget_sha512() {
26     # $1 filename
27     # $2 download_URL
28     # $3 correct_sha512
29     if [[ ! -f "$1" ]];
30     then
31         wget -O "$1" "$2"
32     fi
33     present_sha512=$(sha512sum "$1" | cut -f1 -d' ')
34     if [[ "$present_sha512" != "$3" ]];
35     then
36         echo "$1 does not have correct sha512"
37         echo "wanted $3"
38         echo "found $present_sha512"
39         exit
40     fi
41 }

```

Merci Dieu ! Merci Père ! Merci Seigneur ! Merci Saint Esprit !