

DevOrSysAdminScripts

Laurent Lyaudet

<https://lyaudet.eu/laurent/>

laurent.lyaudet@gmail.com

May 6, 2024

Abstract

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

Current version: 2024-05-06

Current number of commits: 54

Current git SHA1: f0135a12296bc856f9b385fc985cc63d40fcdf15

Code lines: 1798 total lines, 1544 not empty lines, 254 empty lines.

1 Files tree

```
.
├── build_and_checks_dependencies
│   ├── build_and_checks.sh.tpl
│   ├── build_md_from_printable_md.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
│   ├── python_isort_complement.sh
│   ├── too_long_code_lines.sh
│   └── update_common_build_and_checks.sh
├── build_and_checks.sh
├── COPYING
├── COPYING.LESSER
├── DevOrSysAdminScripts.pdf
└── git_checks.sh
```

```

├── latex
│   ├── DevOrSysAdminScripts.tex
│   └── DevOrSysAdminScripts.tex.tpl
├── LiensUtiles.txt
├── pre-commit
├── README.md
├── README.md.tpl
└── wget_sha512.sh

```

3 directories, 26 files

```

[4.0K May  6 03:37] ./
├── [4.0K May  6 03:33] build_and_checks_dependencies/
│   ├── [1.4K May  6 00:49] build_and_checks.sh.tpl*
│   ├── [1.5K May  6 01:00] build_md_from_printable_md.sh*
│   ├── [1.0K May  6 00:49] check_shell_scripts_beginning.sh
│   ├── [1.8K May  6 01:40] check_URLs.sh
│   ├── [5.3K May  6 03:33] common_build_and_checks.sh*
│   ├── [3.8K May  6 02:02] common_build_and_checks.sh.tpl
│   ├── [6.5K May  6 03:20] create_PDF.sh*
│   ├── [1.6K May  6 03:28] get_common_text_glob_patterns.sh
│   ├── [1.6K May  6 02:15] lines_counts.sh
│   ├── [2.8K May  6 02:16] lines_filters.sh
│   ├── [1.3K May  6 00:49] python_black_complement.sh
│   ├── [1.2K May  6 01:40] python_isort_complement.sh
│   ├── [1.1K May  6 01:40] too_long_code_lines.sh
│   └── [2.1K May  6 00:49] update_common_build_and_checks.sh*
├── [1.5K May  6 03:33] build_and_checks.sh*
├── [ 34K May  6 00:49] COPYING
├── [7.5K May  6 00:49] COPYING.LESSER
├── [106K May  6 03:33] DevOrSysAdminScripts.pdf
├── [2.2K May  6 00:49] git_checks.sh
├── [4.0K May  6 03:37] latex/
│   ├── [6.9K May  6 03:37] DevOrSysAdminScripts.tex
│   └── [6.9K May  6 00:49] DevOrSysAdminScripts.tex.tpl
├── [ 424 May  6 00:49] LiensUtiles.txt
├── [1.0K May  6 00:49] pre-commit
├── [1.6K May  6 03:37] README.md
├── [1.6K May  6 01:40] README.md.tpl
└── [1.1K May  6 00:49] wget_sha512.sh

```

3 directories, 26 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:
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 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_md_from_printable_md.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 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 [[ -n "$2" ]];

```

```

36 then
37     filename="$2"
38 else
39     filename="README"
40 fi
41
42 if [[ -f "${filename}.md.tpl" ]];
43 then
44     sed -Ez "$sed_expression" "${filename}.md.tpl"\
45         > "${filename}_temp1.md"
46     sed -Ez "$sed_expression" "${filename}_temp1.md"\
47         > "${filename}_temp2.md"
48     sed -Ez "$sed_expression" "${filename}_temp2.md"\
49         > "${filename}_temp3.md"
50     sed -Ez "$sed_expression" "${filename}_temp3.md"\
51         > "${filename}.md"
52     rm "${filename}_temp1.md" "${filename}_temp2.md"\
53         "${filename}_temp3.md"
54 else
55     echo "No file ${filename}.md.tpl"
56 fi
57
58 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  #
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 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 #
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 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 check_URLs() {

```

```

29 get_common_text_files_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_file_patterns[@]}; do
37   [ "$1" != "-v" ] || echo "Iterating on pattern: $pattern"
38   find . -type f -name "$pattern" -printf '%P\n'\
39     | xargs grep -H 'http:'\
40     | grep -v "^[^:]*check_URLs.sh:"
41   for filename in $pattern; do
42     [ -f "$filename" ] || continue
43     base_filename=$(basename "$filename")
44     [ "$base_filename" != "check_URLs.sh" ] || continue
45     [ "$1" != "-v" ] || echo "Handling the file: $filename"
46     for substitution in "${!substitutions[@]}; do
47       substitution2=${substitutions[$substitution]}
48       if grep -q "$substitution" "$filename"; then
49         sed -i "s|$substitution|$substitution2|g" "$filename"
50       fi
51     done
52   done
53 done
54 }

```

2.5 build_and_checks_dependencies/common_build_and_checks.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 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="$URL_beginning/build_md_from_printable_md.sh"
34 correct_sha512='aecf84a848a66e22367968b80cf250784d0c85b6bd9bad2fcf75b'
35 correct_sha512+='98aa77a250c8a74f81ae9c61687d47e29c8712614a4fe44027a9'
36 correct_sha512+='32224a7d04c2388084cbe25'
37 wget_sha512 "$subdir/build_md_from_printable_md.sh" "$script" \
38     "$correct_sha512"
39 chmod +x "$subdir/build_md_from_printable_md.sh"
40
41 script="$URL_beginning/check_shell_scripts_beginning.sh"
42 correct_sha512='faf7felc59b177d0f74afee6e8fb94e14bf7041b74a36afc41d6d'
43 correct_sha512+='e71b6325af1d42f5c816024d311751d6e40c197c52ac97188c9c'
44 correct_sha512+='e75ea4937b966d2b0ff4ac7'
45 wget_sha512 "$subdir/check_shell_scripts_beginning.sh" "$script" \
46     "$correct_sha512"
47
48 script="$URL_beginning/check_URLs.sh"
49 correct_sha512='aa052d684b542929e9bc1a7c0768ea424cebbb5df3db01f103afd'
50 correct_sha512+='620abd35f2f2ad2ff5f7ff18644d84ad8051a00cc8c3205d5951'
51 correct_sha512+='d3aec6d8c14a0183c49b0b9'
52 wget_sha512 "$subdir/check_URLs.sh" "$script" "$correct_sha512"
53
54 script="$URL_beginning/create_PDF.sh"
55 correct_sha512='09dd5992de55dcdedd3e024546fd653c7ce6389d889ee17ddff9d'
56 correct_sha512+='16b3ad0fddefe836f11693b1704ff52e1cf00cbd090d2d504b7c'
57 correct_sha512+='35af31a49281e9ea51d5d15'
58 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"
59 chmod +x "$subdir/create_PDF.sh"
60
61 script="$URL_beginning/get_common_text_glob_patterns.sh"
62 correct_sha512='0c131dd3afa78d9875e0ef5ee0683ccf58d58b0077f7fc728f9fe'
63 correct_sha512+='77fee52e70963b50963ef0dd4b0fb14277eaca308abef04aeb8c'

```



```

64 correct_sha512+= '56b6493fe4f16d597403039'
65 wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script" \
66     "$correct_sha512"
67
68 script="$URL_beginning/lines_counts.sh"
69 correct_sha512='85549707a7152d578caca30f84f2f6b6e6f57d8f26df2ab83e834'
70 correct_sha512+= 'e62d7f57019fc24f3363ef031b880c65c255d9dabe976dc7a416'
71 correct_sha512+= 'cccde75d1b73af652bd51ca'
72 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
73
74 script="$URL_beginning/lines_filters.sh"
75 correct_sha512='b102cc7b29b7bc590c8090f13d1a3397f893a13bd0c4d894ce0fa'
76 correct_sha512+= 'b4c44be6b2c01c01c6e1787288ccf7fed75027192dc057bebfdd'
77 correct_sha512+= 'ac0ae13c76196f492c88ad8'
78 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
79
80 script="$URL_beginning/python_black_complement.sh"
81 correct_sha512='909ab2453a3448b45e92c60df216d86578528d5151bc8c5efb50b'
82 correct_sha512+= 'c8c4007d4c34adc7b2d583f3f5d9629cf37f163c813aebc3dec2'
83 correct_sha512+= 'ce6370fcf1bdbea5820ab13'
84 wget_sha512 "$subdir/python_black_complement.sh" "$script" \
85     "$correct_sha512"
86
87 script="$URL_beginning/python_isort_complement.sh"
88 correct_sha512='b3bf56acdc42371ed60762d48ba8412acf3f7a250b277683696d2'
89 correct_sha512+= '6ac55c21b42d1070aabbfbfa200883f7c69e2b0e3ef516862e4ad'
90 correct_sha512+= '25401b7a12da96169758e90'
91 wget_sha512 "$subdir/python_isort_complement.sh" "$script" \
92     "$correct_sha512"
93
94 script="$URL_beginning/too_long_code_lines.sh"
95 correct_sha512='4d4728b3fc530281680dfa836fe396e5ad3ea0df15e3c0ce4809b'
96 correct_sha512+= '98c8e009de5862de42deb63128117516a0d9e0687e0e7bd6a7d8'
97 correct_sha512+= '5daabeda07320b49e443b46'
98 wget_sha512 "$subdir/too_long_code_lines.sh" "$script" \
99     "$correct_sha512"
100
101 shopt -s globstar
102 source "$subdir/check_shell_scripts_beginning.sh"
103 source "$subdir/check_URLs.sh"
104 source "$subdir/get_common_text_glob_patterns.sh"
105 source "$subdir/lines_counts.sh"
106 source "$subdir/lines_filters.sh"
107 source "$subdir/python_black_complement.sh"
108 source "$subdir/python_isort_complement.sh"
109 source "$subdir/too_long_code_lines.sh"

```

```

110
111 cwd="."
112 if [[ -n "$1" ]];
113 then
114     cwd="$1"
115 fi
116
117 echo "Building README.md"
118 ./build_and_checks_dependencies/build_md_from_printable_md.sh "$cwd"
119
120 pushd .
121 cd "$cwd"
122
123 echo "Running isort"
124 isort .
125 python_isort_complement
126
127 echo "Running black"
128 black .
129 python_black_complement
130
131 find . -name "pyproject.toml" | relevant_find\
132 | while read -r filename;
133 do
134     if grep -q "Typing :: Typed" "$filename"; then
135         echo "Running mypy"
136         mypy $(dirname "$filename")
137     fi
138 done
139
140 echo "Analyzing too long lines"
141 too_long_code_lines | relevant_grep | not_license_grep
142
143 echo "Analyzing shell scripts beginning"
144 check_shell_scripts_beginning | relevant_grep
145
146 echo "Analyzing URLs"
147 check_URLs | relevant_grep
148
149 echo "Creating the PDF file of the listing of the source code"
150 ./build_and_checks_dependencies/create_PDF.sh
151
152 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.
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 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="$URL_beginning/build_md_from_printable_md.sh"
34 @sha512_build_md_from_printable_md.sh@
35 wget_sha512 "$subdir/build_md_from_printable_md.sh" "$script" \
36 "$correct_sha512"
37 chmod +x "$subdir/build_md_from_printable_md.sh"
38
39 script="$URL_beginning/check_shell_scripts_beginning.sh"
40 @sha512_check_shell_scripts_beginning.sh@
41 wget_sha512 "$subdir/check_shell_scripts_beginning.sh" "$script" \
42 "$correct_sha512"
43
44 script="$URL_beginning/check_URLs.sh"
```

```

45 @sha512_check_URLs.sh@
46 wget_sha512 "$subdir/check_URLs.sh" "$script" "$correct_sha512"
47
48 script="$URL_beginning/create_PDF.sh"
49 @sha512_create_PDF.sh@
50 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"
51 chmod +x "$subdir/create_PDF.sh"
52
53 script="$URL_beginning/get_common_text_glob_patterns.sh"
54 @sha512_get_common_text_glob_patterns.sh@
55 wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script" \
56     "$correct_sha512"
57
58 script="$URL_beginning/lines_counts.sh"
59 @sha512_lines_counts.sh@
60 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
61
62 script="$URL_beginning/lines_filters.sh"
63 @sha512_lines_filters.sh@
64 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
65
66 script="$URL_beginning/python_black_complement.sh"
67 @sha512_python_black_complement.sh@
68 wget_sha512 "$subdir/python_black_complement.sh" "$script" \
69     "$correct_sha512"
70
71 script="$URL_beginning/python_isort_complement.sh"
72 @sha512_python_isort_complement.sh@
73 wget_sha512 "$subdir/python_isort_complement.sh" "$script" \
74     "$correct_sha512"
75
76 script="$URL_beginning/too_long_code_lines.sh"
77 @sha512_too_long_code_lines.sh@
78 wget_sha512 "$subdir/too_long_code_lines.sh" "$script" \
79     "$correct_sha512"
80
81 shopt -s globstar
82 source "$subdir/check_shell_scripts_beginning.sh"
83 source "$subdir/check_URLs.sh"
84 source "$subdir/get_common_text_glob_patterns.sh"
85 source "$subdir/lines_counts.sh"
86 source "$subdir/lines_filters.sh"
87 source "$subdir/python_black_complement.sh"
88 source "$subdir/python_isort_complement.sh"
89 source "$subdir/too_long_code_lines.sh"
90

```

```

91  cwd="."
92  if [[ -n "$1" ]];
93  then
94      cwd="$1"
95  fi
96
97  echo "Building README.md"
98  ./build_and_checks_dependencies/build_md_from_printable_md.sh "$cwd"
99
100 pushd .
101 cd "$cwd"
102
103 echo "Running isort"
104 isort .
105 python_isort_complement
106
107 echo "Running black"
108 black .
109 python_black_complement
110
111 find . -name "pyproject.toml" | relevant_find\
112 | while read -r filename;
113 do
114     if grep -q "Typing :: Typed" "$filename"; then
115         echo "Running mypy"
116         mypy $(dirname "$filename")
117     fi
118 done
119
120 echo "Analyzing too long lines"
121 too_long_code_lines | relevant_grep | not_license_grep
122
123 echo "Analyzing shell scripts beginning"
124 check_shell_scripts_beginning | relevant_grep
125
126 echo "Analyzing URLs"
127 check_URLs | relevant_grep
128
129 echo "Creating the PDF file of the listing of the source code"
130 ./build_and_checks_dependencies/create_PDF.sh
131
132 popd

```

2.7 build_and_checks_dependencies/create_PDF.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 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     "./latex/$main_directory.tex"
46
47 number_of_commits=$(git shortlog | space_starting_lines | wc -l)
48 sed -i "s|@number_of_commits@|$number_of_commits|g"\
49     "./latex/$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     "./latex/$main_directory.tex"
56
57 tree -a --gitignore\
58     -I "$main_directory.aux"\
59     -I "$main_directory.log"\
60     -I "$main_directory.out"\
61     -I "$main_directory.tex.tpl2"\
62     -I current_tree.txt\
63     -I current_tree_light.txt\
64     -I "node_modules/"\
65     -I "__pycache__/"\
66     -I ".mypy_cache/"\
67     -I ".git/"\
68     > current_tree_light.txt
69
70 tree -a -DFh --gitignore\
71     -I "$main_directory.aux"\
72     -I "$main_directory.log"\
73     -I "$main_directory.out"\
74     -I "$main_directory.tex.tpl2"\
75     -I current_tree.txt\
76     -I current_tree_light.txt\
77     -I "node_modules/"\
78     -I "__pycache__/"\
79     -I ".mypy_cache/"\
80     -I ".git/"\
81     > current_tree.txt
82
83 shopt -s dotglob
84 find . -type f -printf '%P\n' | relevant_find | sort\
85     | while read -r filename;
86 do
87     [ -f "$filename" ] || continue
88     git check-ignore -q "$filename" && continue
89     base_filename=$(basename "$filename")
90     [ "$base_filename" != "current_tree_light.txt" ] || continue

```

```

91 [ "$base_filename" != "current_tree.txt" ] || continue
92 [ "$base_filename" != "COPYING" ] || continue
93 [ "$base_filename" != "COPYING.LESSER" ] || continue
94 [ "$base_filename" != "$main_directory.pdf" ] || continue
95 [ "$base_filename" != "$main_directory.tex" ] || continue
96 [ "$base_filename" != "$main_directory.tex.tpl2" ] || continue
97 if [[ "$base_filename" == *.md ]]; then
98     if [ -f "$filename.tpl" ]; then
99         # in_place_grep -v "$base_filename$" current_tree.txt
100         # in_place_grep -v "$base_filename$" current_tree_light.txt
101         continue
102     fi
103 fi
104 cleaned_path1=$(sed -e 's/_/\_\_/g' <(echo "$filename"))
105 cleaned_path2=$(sed -e 's/\//:/g' -e 's/\././g' <(echo "$filename"))
106 if grep -q " $filename\$" ". /latex/$main_directory.tex.tpl2"; then
107     echo ""
108     # sed -i -Ez\
109     #   "s/$filename\n/\
110     #   ${filename/./\./g}\hyperref\${{filename/./\./g}}\n/Mg"\
111     #   "current_tree_light.txt"
112 else
113     echo "The file $filename is not listed"\
114     " in ./latex/$main_directory.tex.tpl"
115     echo "TODO:\subsection{"
116     echo "TODO: $cleaned_path1"
117     echo "TODO:}"
118     echo "TODO:\label{"
119     echo "TODO: $cleaned_path2"
120     echo "TODO:}"
121     echo "TODO:"
122     echo "TODO:\VerbatimInput[numbers=left,xleftmargin=-5mm]{ "
123     echo "TODO: $filename"
124     echo "TODO:}"
125     echo "TODO:"
126     echo "TODO:"
127 fi
128 done
129 shopt -u dotglob
130 shopt -s globstar
131
132 split_last_line(){
133     # $1=$new_lines
134     # $2=$prefix
135     split_last_line_result="$1"
136     if echo "$1" | sed -e 's/\n/\n/g' | grep -q '\{71\}$'; then

```



```

137 start=$(\  

138     echo "$1" | sed -e 's/\\n/\\n/g' | head --lines=-1\  

139     | sed -z 's/\\n/\\n/g'\  

140 )\  

141 # echo "start: $start"  

142 last_line=$(echo "$1" | sed -e 's/\\n/\\n/g' | tail --lines=1)  

143 # echo "last_line: $last_line"  

144 split_last_line_result=""  

145 if [[ -n "$start" ]]; then  

146     split_last_line_result="$start\\n"  

147 fi  

148 split_last_line_result+="${last_line:0:69}\\n"  

149 split_last_line_result+="$2${last_line:69}"  

150 fi  

151 }  

152  

153 # We verify if some lines are beyond 70 characters  

154 # in current_tree_light.txt et current_tree.txt.  

155 trees=("current_tree_light.txt" "current_tree.txt")  

156 for some_tree in "${trees[@]"; do  

157     grep '.\\{71\\}' "$some_tree" | while read -r some_line; do  

158         # echo "some_line: $some_line"  

159         prefix=$(\  

160             echo "$some_line"\  

161             | sed -E -e 's/(.*)-[^-]+$/\\1/g' -e 's/[^ ]+$/g'\  

162         )  

163         prefix+="| "  

164         # echo "prefix: $prefix"  

165         filename=$(\  

166             echo "$some_line"\  

167             | sed -E 's|.* ([[a-zA-Z0-9\\._/-]+).)|\\1|g'\  

168         )  

169         # echo "filename: $filename"  

170         line_start=$(\  

171             echo "$some_line"\  

172             | sed -E "s/(.*)[ ]*$filename/\\1/g"\  

173         )  

174         # echo "line_start: $line_start"  

175         some_line=$(\  

176             echo "$some_line"\  

177             | sed -E -e 's/[\\|\\|\\|\\|/g' -e 's/[\\|\\|\\|/g'\  

178         )  

179         new_lines="$prefix$filename"  

180         split_last_line "$new_lines" "$prefix"  

181         new_lines=$split_last_line_result  

182         split_last_line "$new_lines" "$prefix"

```

```

183     new_lines=$split_last_line_result
184     split_last_line "$new_lines" "$prefix"
185     new_lines=$split_last_line_result
186     split_last_line "$new_lines" "$prefix"
187     new_lines=$split_last_line_result
188     sed -i -e "s/$some_line/$line_start\n$new_lines/g" "$some_tree"
189 done
190 done
191
192 sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}'\
193     "./latex/$main_directory.tex"
194 sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}'\
195     "./latex/$main_directory.tex"
196
197 pdflatex "./latex/$main_directory.tex" > /dev/null
198 pdflatex "./latex/$main_directory.tex" > /dev/null
199 pdflatex "./latex/$main_directory.tex" > /dev/null
200
201 files_to_delete=(\
202     "$main_directory.aux"\
203     "$main_directory.log"\
204     "$main_directory.out"\
205     "current_tree.txt"
206     "current_tree_light.txt"
207     "./latex/$main_directory.tex.tpl2"
208 )
209 # Comment the following line if you need to debug.
210 for filename in "${files_to_delete[@]}; do
211     rm -f "$filename"
212 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  #
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 get_common_text_paths_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         '**/.gitignore' \
49         '**/py.typed' \
50     )
51 }
52
53
54 get_common_text_files_glob_patterns() {
55     export common_file_patterns=(\
56         '*.c' \
57         '*.css' \
58         '*.h' \
59         '*.htm' \

```

```

60     '*.html'\
61     '*.js'\
62     '*.json'\
63     '*.md'\
64     '*.php'\
65     '*.py'\
66     '*.sh'\
67     '*.sql'\
68     '*.tex'\
69     '*.toml'\
70     '*.tpl'\
71     '*.ts'\
72     '*.txt'\
73     '*.yaml'\
74     'COPYING'\
75     'COPYING.LESSER'\
76     'pre-commit'\
77     '.gitignore'\
78     'py.typed'\
79 )
80 }

```

2.9 build_and_checks_dependencies/lines_counts.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 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_files_glob_patterns
31     for pattern in "${common_file_patterns[@]}; do
32         [ "$1" != "-v" ] || echo "Iterating on pattern: $pattern"
33         find . -type f -name "$pattern" -printf '%P\n'\
34             | xargs grep -H -v 'a(?!a)a'
35     done
36 }
37
38 all_self_code_lines() {
39     all_code_lines | relevant_grep\
40         | not_license_grep | not_main_tex_grep
41 }
42
43 all_self_empty_code_lines() {
44     all_self_code_lines | empty_lines_after_filename
45 }
46
47 all_self_not_empty_code_lines() {
48     all_self_code_lines | not_empty_lines_after_filename
49 }
50
51 code_lines_count_all() {
52     all_self_code_lines | wc -l
53 }
54
55 code_lines_count_empty() {
56     all_self_empty_code_lines | wc -l
57 }
58
59 code_lines_count_not_empty() {
60     all_self_not_empty_code_lines | wc -l
61 }

```

2.10 build_and_checks_dependencies/lines_filters.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 # 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 current_path=$(pwd)
32 main_directory=$(basename "$current_path")
33
34 in_place_grep() {
35     grep $@ > "${!#}""temp_in_place_grep"
36     mv "${!#}""temp_in_place_grep" "${!#}"
37 }
38
39 empty_lines() {
40     grep '^$'
41 }
42
43 not_empty_lines() {
44     grep -v '^$'
45 }
46
47 space_starting_lines() {
48     grep '^[ ]'
49 }
50

```

```

51 not_space_starting_lines() {
52     grep '^[ ^ ]'
53 }
54
55 empty_lines_after_filename() {
56     grep '^[:]\|+$'
57 }
58
59 not_empty_lines_after_filename() {
60     grep -v '^[:]\|+$'
61 }
62
63 space_starting_lines_after_filename() {
64     grep '^[:]\|+ '
65 }
66
67 not_space_starting_lines_after_filename() {
68     grep '^[:]\|+:[ ^ ]'
69 }
70
71 not_JS_dependencies_find() {
72     grep -vE "(^|/)node_modules/" | grep -vE "(^|/)package-lock\.json$"
73 }
74
75 not_JS_dependencies_grep() {
76     grep -v "^[^:]*node_modules/" | grep -v "^[^:]*package-lock\.json:"
77 }
78
79 not_dependencies_find() {
80     not_JS_dependencies_find
81 }
82
83 not_dependencies_grep() {
84     not_JS_dependencies_grep
85 }
86
87 not_python_cache_find() {
88     grep -vE "(^|/).__pycache__/" | grep -vE "(^|/)\.mypy_cache/"
89 }
90
91 not_python_cache_grep() {
92     grep -v "^[^:]*__pycache__/" | grep -v "^[^:]*\.mypy_cache/"
93 }
94
95 not_cache_find() {
96     not_python_cache_find

```

```

97  }
98
99  not_cache_grep() {
100      not_python_cache_grep
101  }
102
103  not_git_find() {
104      grep -vE "(^|/)\.git/"
105  }
106
107  not_git_grep() {
108      grep -v "^[^:]*\.git/"
109  }
110
111  not_archive_find() {
112      grep -vE "(\.gz|\.rar|\.tar|\.tgz|\.whl)$"
113  }
114
115  not_archive_grep() {
116      grep -vE "^[^:]*(\.gz|\.rar|\.tar|\.tgz|\.whl):"
117  }
118
119  not_license_find() {
120      grep -vE "(^|/)\COPYING$" | grep -vE "(^|/)\COPYING\LESSER$"
121  }
122
123  not_license_grep() {
124      grep -v "^[^:]*\COPYING:" | grep -v "^[^:]*\COPYING\LESSER:"
125  }
126
127  not_main_tex_find() {
128      grep -vE "(^|/)$main_directory\.tex$"
129  }
130
131  not_main_tex_grep() {
132      grep -v "^[^:]*$main_directory\.tex:"
133  }
134
135  relevant_find() {
136      not_dependencies_find | not_cache_find | not_git_find\
137      | not_archive_find
138  }
139
140  relevant_grep() {
141      not_dependencies_grep | not_cache_grep | not_git_grep\
142      | not_archive_grep

```


143 }

2.11 build_and_checks_dependencies/python_black_complement.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 # 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/python_isort_complement.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 subdir="build_and_checks_dependencies"
26 source "$subdir/lines_filters.sh"
27
28 check_collections_abc_place() {
29     echo "Checking import of _collections_abc is at the right place"
30     find . -name "*.py" | relevant_find | while read -r filename; do
31         [ -f "$filename" ] || continue
32         sed -i -Ez 's/\n(\nfrom _collections_abc[^\n]*)/\1\nMg'\
33             "$filename"
34     done
35 }
36
37 python_isort_complement() {
38     check_collections_abc_place
39 }
```

2.13 build_and_checks_dependencies/too_long_code_lines.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 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 too_long_code_lines(){
29     get_common_text_files_glob_patterns
30     for pattern in "${common_file_patterns[@]"; do
31         [ "$1" != "-v" ] || echo "Iterating on pattern: $pattern"
32         find . -type f -name "$pattern" -printf '%P\n'\
33             | xargs grep -H '.\{71\}'
34     done
35 }

```

2.14 build_and_checks_dependencies/update_common_build_and_checks.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 cp ./common_build_and_checks.sh.tpl ./common_build_and_checks.sh
26
27 file_names=(\
28     "build_md_from_printable_md.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     "python_isort_complement.sh"\
37     "too_long_code_lines.sh"\
38 )
39
40 for file_name in "${file_names[@]}; do
41     file_sha512=$(sha512sum ".$file_name" | cut -f1 -d' ')
42     file_sha512_1="correct_sha512='${file_sha512:0:53}'"
43     file_sha512_2="correct_sha512\+='${file_sha512:53:52}'"
44     file_sha512_3="correct_sha512\+='${file_sha512:105}'"
45     file_sha512_all="$file_sha512_1\n"
46     file_sha512_all+="$file_sha512_2\n"
47     file_sha512_all+="$file_sha512_3"
48     sed -i "s|@sha512_$file_name@|$file_sha512_all|g"\
49         ./common_build_and_checks.sh
50 done
51
52 cp ./build_and_checks.sh.tpl ../build_and_checks.sh
53
54 file_sha512=$(sha512sum common_build_and_checks.sh | cut -f1 -d' ')
55 file_sha512_1="correct_sha512='${file_sha512:0:53}'"
56 file_sha512_2="correct_sha512\+='${file_sha512:53:52}'"

```

```

57 file_sha512_3="correct_sha512\+='${file_sha512:105}'"
58 file_sha512_all="$file_sha512_1\n"
59 file_sha512_all+="$file_sha512_2\n"
60 file_sha512_all+="$file_sha512_3"
61 sed -i "s|@sha512_common_build_and_checks.sh@|$file_sha512_all|g"\
62     ../build_and_checks.sh

```

2.15 build_and_checks.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 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='11af209d9d655a6a04eb1aae52580a41ea556039d0836c351ac62'
36 correct_sha512+='e7e2d79338c26b918064dda2041e2234f2d43b8e32b52e700837'
37 correct_sha512+='7dff4c8a64e341c1d68c396'

```

```

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"

```

2.16 git_checks.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 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 }

```

2.17 latex/DevOrSysAdminScripts.tex.tpl

```
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 \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{pmbboxdraw}
44 \usepackage{fancyvrb}
```



```

45
46 % *** les environnements ***
47 %\theoremstyle{break}
48 \newtheorem{definition}[section]{Definition}
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_checkssh.tpl
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\_md\_from\_printable\_md.sh
114 }
115 \label{
116     build_and_checks_dependencies:build_md_from_printable_mdsh
117 }
118
119 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
120     build_and_checks_dependencies/build_md_from_printable_md.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_checkssh
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_checksstpl
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_patternssh
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_filtersssh
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/python\_isort\_complement.sh
235 }
236 \label{
237     build_and_checks_dependencies:python_isort_complementsh
238 }
239
240 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
241     build_and_checks_dependencies/python_isort_complement.sh
242 }
243
244
245 \subsection{
246     build\_and\_checks\_dependencies/too\_long\_code\_lines.sh
247 }
248 \label{
249     build_and_checks_dependencies:too_long_code_linessh
250 }
251
252 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
253     build_and_checks_dependencies/too_long_code_lines.sh
254 }
255
256
257 \subsection{
258     build\_and\_checks\_dependencies/update\_common\_build\_and\_checks%
259     .sh
260 }
261 \label{
262     build_and_checks_dependencies:update_common_build_and_checkssh
263 }
264
265 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
266     build_and_checks_dependencies/update_common_build_and_checks.sh
267 }
268
269
270 \subsection{
271     build\_and\_checks.sh
272 }
273 \label{
274     build_and_checkssh

```

```

275 }
276
277 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
278     build_and_checks.sh
279 }
280
281
282 \subsection{
283     git\_checks.sh
284 }
285 \label{
286     git_checkssh
287 }
288
289 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
290     git_checks.sh
291 }
292
293
294 \subsection{
295     latex/DevOrSysAdminScripts.tex.tpl
296 }
297 \label{
298     latex:DevOrSysAdminScriptstextpl
299 }
300
301 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
302     latex/DevOrSysAdminScripts.tex.tpl
303 }
304
305
306 \subsection{
307     LiensUtiles.txt
308 }
309 \label{
310     LiensUtilestxt
311 }
312
313 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
314     LiensUtiles.txt
315 }
316
317
318 \subsection{
319     pre-commit
320 }

```

```

321 \label{
322     pre-commit
323 }
324
325 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
326     pre-commit
327 }
328
329
330 \subsection{
331     README.md.tpl
332 }
333 \label{
334     READMEmdtpl
335 }
336
337 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
338     README.md.tpl
339 }
340
341
342 \subsection{
343     wget\_sha512.sh
344 }
345 \label{
346     wget_sha512sh
347 }
348
349 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
350     wget_sha512.sh
351 }
352
353
354 Merci Dieu ! Merci P\`ere ! Merci Seigneur ! Merci Saint Esprit !
355
356 \end{document}

```

2.18 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

2.19 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

```

2.20 README.md.tpl

```

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

```

```
42
43 [GitHub-code-size-in-bytes-badge]: https://img.shields.io/github/\
44 languages/code-size/llyaudet/DevOrSysAdminScripts
```

2.21 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 }
```

41 }

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