

DevOrSysAdminScripts

Laurent Lyaudet

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

laurent.lyaudet@gmail.com

May 16, 2024

Abstract

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

Current version: 2024-05-16

Current number of commits: 73

Current git SHA1: 5c48779a8cc3b5ac876a9b4a8da7b9f2c2747bf5

Code lines: 3028 total lines, 2709 not empty lines, 319 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
│   ├── comparisons.sh
│   ├── create_PDF.sh
│   ├── generate_from_template.sh
│   ├── get_common_text_glob_patterns.sh
│   └── licenses_templates
│       ├── build_license_templates.sh
│       ├── license_file_header_GPLv3+.c.tpl
│       ├── license_file_header_GPLv3+.py.tpl
│       ├── license_file_header_GPLv3+.sh.tpl
│       ├── license_file_header_GPLv3+.tex.tpl
│       ├── license_file_header_GPLv3+.tpl
│       ├── license_file_header_LGPLv3+.c
│       └── license_file_header_LGPLv3+.c.tpl
```

```

|   |   |— license_file_header_LGPLv3+.py
|   |   |— license_file_header_LGPLv3+.py.tpl
|   |   |— license_file_header_LGPLv3+.sh
|   |   |— license_file_header_LGPLv3+.sh.tpl
|   |   |— license_file_header_LGPLv3+.tex
|   |   |— license_file_header_LGPLv3+.tex.tpl
|   |   |— license_file_header_LGPLv3+.tpl
|   |— lines_counts.sh
|   |— lines_filters.sh
|   |— overwrite_if_not_equal.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.html
|— DevOrSysAdminScripts.pdf
|— git_checks.sh
|— latex
|   |— DevOrSysAdminScripts.tex
|   |— DevOrSysAdminScripts.tex.tpl
|— LiensUtiles.txt
|— pre-commit
|— README.md
|— README.md.tpl
|— repository_data.txt
|— wget_sha512.sh

```

4 directories, 46 files

```

[ 12K May 16 03:12] ./
|— [4.0K May 16 03:12] build_and_checks_dependencies/
|   |— [1.4K May 16 03:01] build_and_checks.sh.tpl*
|   |— [1.6K May 16 02:41] build_md_from_printable_md.sh*
|   |— [1.0K May 16 02:41] check_shell_scripts_beginning.sh
|   |— [1.8K May 16 02:42] check_URLs.sh
|   |— [7.5K May 16 03:12] common_build_and_checks.sh*
|   |— [5.2K May 16 03:12] common_build_and_checks.sh.tpl
|   |— [2.8K May 16 02:28] comparisons.sh
|   |— [6.5K May 16 02:42] create_PDF.sh*
|   |— [1.3K May 16 02:42] generate_from_template.sh
|   |— [1.7K May 16 02:42] get_common_text_glob_patterns.sh
|   |— [4.0K May 16 03:12] licenses_templates/
|       |— [4.9K May 16 02:45] build_license_templates.sh*

```

```

— [ 713 May 14 23:15] license_file_header_GPLv3+.c.tpl
— [ 715 May 14 23:19] license_file_header_GPLv3+.py.tpl
— [ 747 May 15 18:15] license_file_header_GPLv3+.sh.tpl
— [ 747 May 15 18:15] license_file_header_GPLv3+.tex.tpl
— [ 707 May 14 23:23] license_file_header_GPLv3+.tpl
— [ 782 May 15 17:06] license_file_header_LGPLv3+.c
— [ 734 May 14 23:20] license_file_header_LGPLv3+.c.tpl
— [ 784 May 15 17:06] license_file_header_LGPLv3+.py
— [ 736 May 14 23:20] license_file_header_LGPLv3+.py.tpl
— [ 816 May 15 18:15] license_file_header_LGPLv3+.sh
— [ 768 May 15 18:15] license_file_header_LGPLv3+.sh.tpl
— [ 816 May 15 18:15] license_file_header_LGPLv3+.tex
— [ 768 May 15 18:15] license_file_header_LGPLv3+.tex.tpl
— [ 728 May 14 23:24] license_file_header_LGPLv3+.tpl
— [1.7K May 16 02:42] lines_counts.sh
— [5.2K May 16 02:43] lines_filters.sh
— [1.1K May 16 02:43] overwrite_if_not_equal.sh
— [1.3K May 16 02:43] python_black_complement.sh
— [1.3K May 16 02:43] python_isort_complement.sh
— [1.2K May 16 02:43] too_long_code_lines.sh
— [2.4K May 16 03:10] update_common_build_and_checks.sh*
— [1.6K May 16 03:12] build_and_checks.sh*
— [ 34K May  6 00:49] COPYING
— [7.5K May  6 00:49] COPYING.LESSER
— [ 15K May 14 18:40] DevOrSysAdminScripts.html
— [106K May 15 18:00] DevOrSysAdminScripts.pdf
— [2.2K May 16 02:44] git_checks.sh
— [4.0K May 16 03:12] latex/
— [6.9K May 16 03:12] DevOrSysAdminScripts.tex
— [6.9K May 16 02:46] DevOrSysAdminScripts.tex.tpl
— [ 424 May  6 00:49] LiensUtiles.txt
— [1.1K May 16 02:44] pre-commit
— [1.6K May 16 03:12] README.md
— [1.6K May 15 18:00] README.md.tpl
— [ 538 May 14 23:04] repository_data.txt
— [1.1K May 16 02:45] wget_sha512.sh

```

4 directories, 46 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 Frédéric Bernard François Lyaudet
24
25 source ./wget_sha512.sh
26
27 mkdir -p build_and_checks_dependencies/licenses_templates
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 Frédéric Bernard François 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 Frédéric Bernard François 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 Frédéric Bernard François 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 Frédéric Bernard François 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="$URL_beginning/build_md_from_printable_md.sh"
34 correct_sha512='f6e5300069ed146bd1065080ab257cffb4e1c8327fd48b10e342e'
35 correct_sha512+='a5769505f5b2a1e5a4ffa944c8c8881db2d953eb4b933f4a0fcb'
36 correct_sha512+='ca52ec54a1606582402de19'
37 wget_sha512 ".$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='312ea7604694b2b0c0e96ecfb8896571f8ddad3bac071e7483d78'
43 correct_sha512+='6f44ba1781c007819024ece389ef11e7da9a330ca61f222dea19'
44 correct_sha512+='f5326d9a3b3710056a903b6'
45 wget_sha512 ".$subdir/check_shell_scripts_beginning.sh" "$script" \
46 "$correct_sha512"
47
48 script="$URL_beginning/check_URLs.sh"
49 correct_sha512='91e6297e954bfe6b6bc60c5ed81b1d1dcc5ee9b95b185f83baff9'
50 correct_sha512+='f16ac2f8059873c8dbfbec17cc1cca029e38595dbcc656bea815'
51 correct_sha512+='b8994fdb25a8c5beae765cc'
52 wget_sha512 ".$subdir/check_URLs.sh" "$script" "$correct_sha512"
53
54 script="$URL_beginning/comparisons.sh"
55 correct_sha512='edalcdad71ef71db542a6bb7f6a0fdc4b3ab5cb4cb90eb44955f3'
56 correct_sha512+='8fc750d43da63bd25e3ee27f7b1acd4da355d6e8ea133cea75f7'
57 correct_sha512+='ff9d30b0a8f72cc565696c9'
58 wget_sha512 ".$subdir/comparisons.sh" "$script" "$correct_sha512"
59
60 script="$URL_beginning/create_PDF.sh"
61 correct_sha512='3640c97ca929cfc50d3d753bd3da29301fe365f9508a449847073'
62 correct_sha512+='74712c48607e040cc8bd80f41108d31e79b03ee4026c87d48f63'
63 correct_sha512+='d84462cb205fa905e1b4d83'
64 wget_sha512 ".$subdir/create_PDF.sh" "$script" "$correct_sha512"
65 chmod +x ".$subdir/create_PDF.sh"
66
67 script="$URL_beginning/generate_from_template.sh"
68 correct_sha512='cefb11d2446a7ec18badae3ade3008ba2776dc7af35dae0c753b0'
69 correct_sha512+='e47fd92e81b15fd10a3e56ae58f043f05924085538d181a49b46'

```

```

70 correct_sha512+= 'fd8ac50bd50a126a264e14a'
71 wget_sha512 "$subdir/generate_from_template.sh" "$script" \
72     "$correct_sha512"
73
74 script="$URL_beginning/get_common_text_glob_patterns.sh"
75 correct_sha512='cd341e8fd1074d53f6ea88b332fc4375f06af0e4c0b56e1ddb39c'
76 correct_sha512+= '8ab988ea5f0c21ec4088fe1946ae44f3ea7ba394f558c03a446f'
77 correct_sha512+= '0971482a4a7a8d6fe041153'
78 wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script" \
79     "$correct_sha512"
80
81 URL_beginning2="$URL_beginning/licenses_templates"
82 subdir2="$subdir/licenses_templates"
83 script="$URL_beginning2/build_license_templates.sh"
84 correct_sha512='c06f40ae44250591d32982ca01ce33ee06d09db04b3b6548624b5'
85 correct_sha512+= '4f67c6e5b80509f413e865dd771dd319a0de7f6622b56bc5df8c'
86 correct_sha512+= 'b0f84830c41bcd527ad5a1c'
87 wget_sha512 "$subdir2/build_license_templates.sh" "$script" \
88     "$correct_sha512"
89 chmod +x "$subdir2/build_license_templates.sh"
90
91 script="$URL_beginning2/license_file_header_GPLv3+.tpl"
92 correct_sha512='2bdef9a729a5a9ca5ed87ef8a518877c5ee6b31b4533608660316'
93 correct_sha512+= 'a4e595fb31465a4847f4d53a2f7264118bd4eab7c1d1892e00bc'
94 correct_sha512+= '1861455ed02898f194db067'
95 wget_sha512 "$subdir2/license_file_header_GPLv3+.tpl" "$script" \
96     "$correct_sha512"
97
98 script="$URL_beginning2/license_file_header_LGPLv3+.tpl"
99 correct_sha512='265fd0d086b48ab798f35a072335a4976e4eda8c256febba6c77c'
100 correct_sha512+= '98ca86cdd844c6ac150c3445c80debbb3fc2574b5fceeaf79ec'
101 correct_sha512+= '734a759bdef5fe798067c62'
102 wget_sha512 "$subdir2/license_file_header_LGPLv3+.tpl" "$script" \
103     "$correct_sha512"
104
105 script="$URL_beginning/lines_counts.sh"
106 correct_sha512='cc58b84da70ad2c6adfa8c421e58bfc1b410e2508e8b28ece29db'
107 correct_sha512+= 'ab13405379aa2e0e586be741f3c785147c1bfc486e2be07ba0f7'
108 correct_sha512+= 'e0d63193e14482949cecaed'
109 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
110
111 script="$URL_beginning/lines_filters.sh"
112 correct_sha512='5c9da4e6b8910256dd412effdfc3303e025634d4a650e710741b5'
113 correct_sha512+= '0f43871a3464cdd4935fa52ee756f9848192fb3e95e9a2d17e54'
114 correct_sha512+= '69ae594c96a1597be1044c5'
115 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"

```

```

116
117 script="$URL_beginning/overwrite_if_not_equal.sh"
118 correct_sha512='66cf1352946f96106206de7b1b71a42c2bf5be4b5636929c64e10'
119 correct_sha512+='88db7261872aa57057630a92ae51461528f2a2f61fe3da52a549'
120 correct_sha512+='db8f9febb542fe6b22f51dd'
121 wget_sha512 "$subdir/overwrite_if_not_equal.sh" "$script" \
122     "$correct_sha512"
123
124 script="$URL_beginning/python_black_complement.sh"
125 correct_sha512='7152e9d01cc3c72371695635cd6866b2e13ce25f4842afb8e4e87'
126 correct_sha512+='b6447b26abafbdbbc850f69946913b5b2c423b265c9066a2b4655'
127 correct_sha512+='6dea19c04a5416588423a74'
128 wget_sha512 "$subdir/python_black_complement.sh" "$script" \
129     "$correct_sha512"
130
131 script="$URL_beginning/python_isort_complement.sh"
132 correct_sha512='ca3d5f7547e97c302845d772c4c7079d55ec3f98482cc620ef417'
133 correct_sha512+='b5b85720067b27252fea8c7ddade226d97ee7bc7f8575c7ff8f0'
134 correct_sha512+='5dcc20672f0ea9c376a3fd2'
135 wget_sha512 "$subdir/python_isort_complement.sh" "$script" \
136     "$correct_sha512"
137
138 script="$URL_beginning/too_long_code_lines.sh"
139 correct_sha512='865abda5d73f84bc8f660ac165ce71d69ba96423ffee14399662c'
140 correct_sha512+='2bc1dd69fafa421327ae9d9a61b1d17c2b8619e0a606db7dc0d6'
141 correct_sha512+='fad475096828bf339075f09'
142 wget_sha512 "$subdir/too_long_code_lines.sh" "$script" \
143     "$correct_sha512"
144
145 shopt -s globstar
146 source "$subdir/check_shell_scripts_beginning.sh"
147 source "$subdir/check_URLs.sh"
148 source "$subdir/comparisons.sh"
149 source "$subdir/generate_from_template.sh"
150 source "$subdir/get_common_text_glob_patterns.sh"
151 source "$subdir/lines_counts.sh"
152 source "$subdir/lines_filters.sh"
153 source "$subdir/overwrite_if_not_equal.sh"
154 source "$subdir/python_black_complement.sh"
155 source "$subdir/python_isort_complement.sh"
156 source "$subdir/too_long_code_lines.sh"
157
158 cwd="."
159 if [[ -n "$1" ]];
160 then
161     cwd="$1"

```

```

162 fi
163
164 echo "Building license headers"
165 ./build_and_checks_dependencies/licenses_templates/build_md_from_printable_md.sh "$s
166
167 echo "Building README.md"
168 ./build_and_checks_dependencies/build_md_from_printable_md.sh "$cwd"
169
170 pushd .
171 cd "$cwd"
172
173 echo "Running isort"
174 isort .
175 python_isort_complement
176
177 echo "Running black"
178 black .
179 python_black_complement
180
181 find . -name "pyproject.toml" | relevant_find\
182 | while read -r filename;
183 do
184     if grep -q "Typing :: Typed" "$filename"; then
185         echo "Running mypy"
186         mypy $(dirname "$filename")
187     fi
188 done
189
190 echo "Analyzing too long lines"
191 too_long_code_lines | relevant_grep | not_license_grep
192
193 echo "Analyzing shell scripts beginning"
194 check_shell_scripts_beginning | relevant_grep
195
196 echo "Analyzing URLs"
197 check_URLs | relevant_grep
198
199 echo "Creating the PDF file of the listing of the source code"
200 ./build_and_checks_dependencies/create_PDF.sh
201
202 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 Frédéric Bernard François 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/comparisons.sh"

```

```

49 @sha512_comparisons.sh@
50 wget_sha512 "$subdir/comparisons.sh" "$script" "$correct_sha512"
51
52 script="$URL_beginning/create_PDF.sh"
53 @sha512_create_PDF.sh@
54 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"
55 chmod +x "$subdir/create_PDF.sh"
56
57 script="$URL_beginning/generate_from_template.sh"
58 @sha512_generate_from_template.sh@
59 wget_sha512 "$subdir/generate_from_template.sh" "$script" \
60     "$correct_sha512"
61
62 script="$URL_beginning/get_common_text_glob_patterns.sh"
63 @sha512_get_common_text_glob_patterns.sh@
64 wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script" \
65     "$correct_sha512"
66
67 URL_beginning2="$URL_beginning/licenses_templates"
68 subdir2="$subdir/licenses_templates"
69 script="$URL_beginning2/build_license_templates.sh"
70 @sha512_build_license_templates.sh@
71 wget_sha512 "$subdir2/build_license_templates.sh" "$script" \
72     "$correct_sha512"
73 chmod +x "$subdir2/build_license_templates.sh"
74
75 script="$URL_beginning2/license_file_header_GPLv3+.tpl"
76 @sha512_license_file_header_GPLv3+.tpl@
77 wget_sha512 "$subdir2/license_file_header_GPLv3+.tpl" "$script" \
78     "$correct_sha512"
79
80 script="$URL_beginning2/license_file_header_LGPLv3+.tpl"
81 @sha512_license_file_header_LGPLv3+.tpl@
82 wget_sha512 "$subdir2/license_file_header_LGPLv3+.tpl" "$script" \
83     "$correct_sha512"
84
85 script="$URL_beginning/lines_counts.sh"
86 @sha512_lines_counts.sh@
87 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
88
89 script="$URL_beginning/lines_filters.sh"
90 @sha512_lines_filters.sh@
91 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
92
93 script="$URL_beginning/overwrite_if_not_equal.sh"
94 @sha512_overwrite_if_not_equal.sh@

```

```

95 wget_sha512 "$subdir/overwrite_if_not_equal.sh" "$script"\
96     "$correct_sha512"
97
98 script="$URL_beginning/python_black_complement.sh"
99 @sha512_python_black_complement.sh@
100 wget_sha512 "$subdir/python_black_complement.sh" "$script"\
101     "$correct_sha512"
102
103 script="$URL_beginning/python_isort_complement.sh"
104 @sha512_python_isort_complement.sh@
105 wget_sha512 "$subdir/python_isort_complement.sh" "$script"\
106     "$correct_sha512"
107
108 script="$URL_beginning/too_long_code_lines.sh"
109 @sha512_too_long_code_lines.sh@
110 wget_sha512 "$subdir/too_long_code_lines.sh" "$script"\
111     "$correct_sha512"
112
113 shopt -s globstar
114 source "$subdir/check_shell_scripts_beginning.sh"
115 source "$subdir/check_URLs.sh"
116 source "$subdir/comparisons.sh"
117 source "$subdir/generate_from_template.sh"
118 source "$subdir/get_common_text_glob_patterns.sh"
119 source "$subdir/lines_counts.sh"
120 source "$subdir/lines_filters.sh"
121 source "$subdir/overwrite_if_not_equal.sh"
122 source "$subdir/python_black_complement.sh"
123 source "$subdir/python_isort_complement.sh"
124 source "$subdir/too_long_code_lines.sh"
125
126 cwd="."
127 if [[ -n "$1" ]];
128 then
129     cwd="$1"
130 fi
131
132 echo "Building license headers"
133 ./build_and_checks_dependencies/licenses_templates/build_md_from_printable_md.sh "$1"
134
135 echo "Building README.md"
136 ./build_and_checks_dependencies/build_md_from_printable_md.sh "$cwd"
137
138 pushd .
139 cd "$cwd"
140

```

```

141 echo "Running isort"
142 isort .
143 python_isort_complement
144
145 echo "Running black"
146 black .
147 python_black_complement
148
149 find . -name "pyproject.toml" | relevant_find\
150 | while read -r filename;
151 do
152     if grep -q "Typing :: Typed" "$filename"; then
153         echo "Running mypy"
154         mypy $(dirname "$filename")
155     fi
156 done
157
158 echo "Analyzing too long lines"
159 too_long_code_lines | relevant_grep | not_license_grep
160
161 echo "Analyzing shell scripts beginning"
162 check_shell_scripts_beginning | relevant_grep
163
164 echo "Analyzing URLs"
165 check_URLs | relevant_grep
166
167 echo "Creating the PDF file of the listing of the source code"
168 ./build_and_checks_dependencies/create_PDF.sh
169
170 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 Frédéric Bernard François 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     "$main_directory.tex"
56
57 tree -a --gitignore \
58     -I "$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     git check-ignore -q "$filename" && continue
88     base_filename=$(basename "$filename")
89     [ "$base_filename" != "current_tree_light.txt" ] || continue
90     [ "$base_filename" != "current_tree.txt" ] || continue
91     [ "$base_filename" != "COPYING" ] || continue
92     [ "$base_filename" != "COPYING.LESSER" ] || continue
93     [ "$base_filename" != "$main_directory.pdf" ] || continue
94     [ "$base_filename" != "$main_directory.tex" ] || continue
95     [ "$base_filename" != "$main_directory.tex.tpl2" ] || continue
96     if [[ "$base_filename" == *.md ]]; then
97         if [ -f "$filename.tpl" ]; then
98             # in_place_grep -v "$base_filename$" current_tree.txt
99             # in_place_grep -v "$base_filename$" current_tree_light.txt
100             continue
101         fi
102     fi
103     cleaned_path1=$(sed -e 's/_/\_\_/g' <(echo "$filename"))
104     cleaned_path2=$(sed -e 's\\/://:/g' -e 's/\././g' <(echo "$filename"))
105     if grep -q " $filename\$" ". /latex/$main_directory.tex.tpl2"; then

```

```

106     echo ""
107     # sed -i -Ez\
108     #   "s/$filename\n/\
109     #   ${filename}/.\n/g}\hyperref\{{filename}/.\n/g}\n/Mg"\
110     #   "current_tree_light.txt"
111   else
112     echo "The file $filename is not listed"\
113     " in ./latex/$main_directory.tex.tpl"
114     echo "TODO:\subsection{"
115     echo "TODO:  $cleaned_path1"
116     echo "TODO:}"
117     echo "TODO:\label{"
118     echo "TODO:  $cleaned_path2"
119     echo "TODO:}"
120     echo "TODO:"
121     echo "TODO:\VerbatimInput[numbers=left,xleftmargin=-5mm] {"
122     echo "TODO:  $filename"
123     echo "TODO:}"
124     echo "TODO:"
125     echo "TODO:"
126   fi
127 done
128 shopt -u dotglob
129 shopt -s globstar
130
131 split_last_line() {
132   # $1=$new_lines
133   # $2=$prefix
134   split_last_line_result="$1"
135   if echo "$1" | sed -e 's/\n/n/g' | grep -q '\{71\}$'; then
136     start=$(
137       echo "$1" | sed -e 's/\n/n/g' | head --lines=-1\
138       | sed -z 's/\n/\n/g'\
139     )
140     # echo "start: $start"
141     last_line=$(echo "$1" | sed -e 's/\n/n/g' | tail --lines=1)
142     # echo "last_line: $last_line"
143     split_last_line_result=""
144     if [[ -n "$start" ]]; then
145       split_last_line_result="$start\n"
146     fi
147     split_last_line_result+="${last_line:0:69}\n"
148     split_last_line_result+="$2${last_line:69}"
149   fi
150 }
151

```

```

152 # We verify if some lines are beyond 70 characters
153 # in current_tree_light.txt et current_tree.txt.
154 trees=("current_tree_light.txt" "current_tree.txt")
155 for some_tree in "${trees[@]}; do
156     grep '\{71\}' "$some_tree" | while read -r some_line; do
157         # echo "some_line: $some_line"
158         prefix=$(
159             echo "$some_line" \
160                 | sed -E -e 's/(.*)-[^-]+$/\1/g' -e 's/[^ ]+$/g' \
161         )
162         prefix+="| "
163         # echo "prefix: $prefix"
164         filename=$(
165             echo "$some_line" \
166                 | sed -E 's|.* (([a-zA-Z0-9\._/-]+).)$|\1|g' \
167         )
168         # echo "filename: $filename"
169         line_start=$(
170             echo "$some_line" \
171                 | sed -E "s/(.*)[ ]*$filename/\1/g" \
172                 | sed -e 's/ */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 Frédéric Bernard François 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 Frédéric Bernard François 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 Frédéric Bernard François 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 ll_wc() {
35     # current options to wc:
36     # -c --bytes
37     # -m --chars
38     # -l --lines
39     # --files0-from # Incompatible with cat,
40     #                 # another thing intentional by ?
41     #                 # I don't see the meaning of "files0".
42     # -L --max-line-length
43     # -w --words
44     # --help
45     # --version
46     # New option by Laurent Lyaudet (and probably other before):
47     # -n --no-filenames display only number(s)
48     # I think I did that the first time many years ago (Teliae ?).
49     args=""
50     number_only=0
51     for arg in $@; do
52         if [[ $arg == "-n" ]]; then
53             number_only=1
54         elif [[ $arg == "--no-filenames" ]]; then
55             number_only=1
56         else
57             if [[ $number_only == 0 ]]; then
58                 args+=" "$arg
59                 continue
60             fi
61             if [[ "$arg" == "-*" ]]; then
62                 args+=" "$arg
63             fi
64         fi
65     done

```

```

66 # echo "$args"
67 # echo "$number_only"
68 if [[ $number_only -gt 0 ]]; then
69     # Too simple code, only the base use case is handled now.
70     # Convenient but incomplete.
71     # With more time,
72     # the simpler would be to submit a patch to GNU coreutils,
73     # unless blockade from assholes.
74     # Otherwise, it may be more simply handled in PHP or Python
75     # (argparse, etc.).
76     # You'll need to start by improving cat first,
77     # with --files0-from handling.
78     # echo "hack cat '${!#}' | wc $args"
79     cat "${!#}" | wc "${args[@]}"
80 else
81     # echo "normal"
82     wc "${args[@]}"
83 fi
84 }
85
86 # I submitted a patch for wc :).
87 # echo "https://domain/list-path/2024-05/msg00013.html" | \
88 #   sed -e 's|domain|lists.gnu.org|' \
89 #       -e 's|list-path|archive/html/bug-coreutils|'
90 # I found another way to have a long URL fit on 70 characters.
91 # If it is merged, the following would be better:
92 # If --no-filenames option available,
93 # we redefine ll_wc command as an alias.
94 wc_help_text=$(wc --help)
95 if [[ "$wc_help_text" == *" --no-filenames "*" ]]; then
96     alias ll_wc='wc'
97 fi
98
99 in_place_grep() {
100     grep $@ > "${!#}"".temp_in_place_grep"
101     lines_before=$(ll_wc -l -n "${!#}")
102     lines_after=$(ll_wc -l -n "${!#}"".temp_in_place_grep")
103     # echo "$lines_before"
104     # echo "$lines_after"
105     if [[ "$lines_before" == "$lines_after" ]]; then
106         rm "${!#}"".temp_in_place_grep"
107         return
108     fi
109     mv "${!#}"".temp_in_place_grep" "${!#}"
110 }
111

```

```

112 grep_variable() {
113     # $1=$file
114     # $2=$variable_name
115     regexp="( ?<=^$2=) .*$"
116     # echo $regexp
117     variable_value="$(grep -oP "$regexp" "$1")"
118     # echo $variable_value
119     declare -g "$2"="$variable_value"
120 }
121
122 empty_lines() {
123     grep '^$'
124 }
125
126 not_empty_lines() {
127     grep -v '^$'
128 }
129
130 space_starting_lines() {
131     grep '^[ ]'
132 }
133
134 not_space_starting_lines() {
135     grep '^[^ ]'
136 }
137
138 empty_lines_after_filename() {
139     grep '^[^:]\+:$'
140 }
141
142 not_empty_lines_after_filename() {
143     grep -v '^[^:]\+:$'
144 }
145
146 space_starting_lines_after_filename() {
147     grep '^[^:]\+:'
148 }
149
150 not_space_starting_lines_after_filename() {
151     grep '^[^:]\+:[^ ]'
152 }
153
154 not_JS_dependencies_find() {
155     grep -vE "(^|/)node_modules/" | grep -vE "(^|/)package-lock\.json$"
156 }
157

```

```

158 not_JS_dependencies_grep() {
159     grep -v "^[^:]*node_modules/" | grep -v "^[^:]*package-lock\.json:"
160 }
161
162 not_dependencies_find() {
163     not_JS_dependencies_find
164 }
165
166 not_dependencies_grep() {
167     not_JS_dependencies_grep
168 }
169
170 not_python_cache_find() {
171     grep -vE "(^|/).__pycache__/" | grep -vE "(^|/)\.mypy_cache/"
172 }
173
174 not_python_cache_grep() {
175     grep -v "^[^:]*__pycache__/" | grep -v "^[^:]*\.mypy_cache/"
176 }
177
178 not_cache_find() {
179     not_python_cache_find
180 }
181
182 not_cache_grep() {
183     not_python_cache_grep
184 }
185
186 not_git_find() {
187     grep -vE "(^|/)\.git/"
188 }
189
190 not_git_grep() {
191     grep -v "^[^:]*\.git/"
192 }
193
194 not_archive_find() {
195     grep -vE "(\.gz|\.rar|\.tar|\.tgz|\.whl)$"
196 }
197
198 not_archive_grep() {
199     grep -vE "^[^:]*(\.gz|\.rar|\.tar|\.tgz|\.whl):"
200 }
201
202 not_license_find() {
203     grep -vE "(^|/).COPYING$" | grep -vE "(^|/).COPYING\..LESSER$"

```

```

204 }
205
206 not_license_grep() {
207     grep -v "^[^:]*COPYING:" | grep -v "^[^:]*COPYING\..LESSER:"
208 }
209
210 not_main_tex_find() {
211     grep -vE "(^|/)$main_directory\.tex$"
212 }
213
214 not_main_tex_grep() {
215     grep -v "^[^:]*$main_directory\.tex:"
216 }
217
218 relevant_find() {
219     not_dependencies_find | not_cache_find | not_git_find\
220     | not_archive_find
221 }
222
223 relevant_grep() {
224     not_dependencies_grep | not_cache_grep | not_git_grep\
225     | not_archive_grep
226 }

```

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 Frédéric Bernard François 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 Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"

```

```

26 source "$subdir/lines_filters.sh"
27 source "$subdir/overwrite_if_not_equal.sh"
28
29 check_collections_abc_place(){
30     echo "Checking import of _collections_abc is at the right place"
31     find . -name "*.py" | relevant_find | while read -r filename; do
32         [ -f "$filename" ] || continue
33         sed -Ez 's/\n(\nfrom _collections_abc[^\n]*)/\1\nMg'\
34             "$filename" > "$filename.temp"
35         overwrite_if_not_equal "$filename" "$filename.temp"
36     done
37 }
38
39 python_isort_complement(){
40     check_collections_abc_place
41 }

```

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 Frédéric Bernard François 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 Frédéric Bernard François 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     "comparisons.sh"\
32     "create_PDF.sh"\
33     "generate_from_template.sh"\
34     "get_common_text_glob_patterns.sh"\
35     "licenses_templates/build_license_templates.sh"\

```



```

36 "licenses_templates/license_file_header_GPLv3+.tpl"\
37 "licenses_templates/license_file_header_LGPLv3+.tpl"\
38 "lines_counts.sh"\
39 "lines_filters.sh"\
40 "overwrite_if_not_equal.sh"\
41 "python_black_complement.sh"\
42 "python_isort_complement.sh"\
43 "too_long_code_lines.sh"\
44 )
45
46 for file_name in "${file_names[@]}; do
47     file_sha512=$(sha512sum "$file_name" | cut -f1 -d' ')
48     file_sha512_1="correct_sha512='${file_sha512:0:53}' "
49     file_sha512_2="correct_sha512\+='${file_sha512:53:52}' "
50     file_sha512_3="correct_sha512\+='${file_sha512:105}' "
51     file_sha512_all="$file_sha512_1\n"
52     file_sha512_all+="$file_sha512_2\n"
53     file_sha512_all+="$file_sha512_3"
54     base_filename=$(basename $file_name)
55     sed -i "s|@sha512_$base_filename@|$file_sha512_all|g"\
56         ./common_build_and_checks.sh
57 done
58
59 cp ./build_and_checks.sh.tpl ../build_and_checks.sh
60
61 file_sha512=$(sha512sum common_build_and_checks.sh | cut -f1 -d' ')
62 file_sha512_1="correct_sha512='${file_sha512:0:53}' "
63 file_sha512_2="correct_sha512\+='${file_sha512:53:52}' "
64 file_sha512_3="correct_sha512\+='${file_sha512:105}' "
65 file_sha512_all="$file_sha512_1\n"
66 file_sha512_all+="$file_sha512_2\n"
67 file_sha512_all+="$file_sha512_3"
68 sed -i "s|@sha512_common_build_and_checks.sh@|$file_sha512_all|g"\
69     ../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 Frédéric Bernard François Lyaudet
24
25 source ./wget_sha512.sh
26
27 mkdir -p build_and_checks_dependencies/licenses_templates
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="$URL_beginning/common_build_and_checks.sh"
35 correct_sha512='e2b3f4fce607bef1533a5df1bc6f29b753d36fe9db26c303f6c82'
36 correct_sha512+='1b24eca5183704234a885a09e3e161916a2cfc253a89a42d753b'
37 correct_sha512+='15590ef6bb3d4d17edf1cf1'
38 wget_sha512 "$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 Frédéric Bernard François 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  % This file is part of DevOrSysAdminScripts library.
2  %
3  % DevOrSysAdminScripts is free software:
4  % you can redistribute it and/or modify it under the terms
5  % of the GNU Lesser General Public License
6  % as published by the Free Software Foundation,
7  % either version 3 of the License,
8  % or (at your option) any later version.
9  %
10 % DevOrSysAdminScripts is distributed in the hope
11 % that it will be useful,
12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU Lesser General Public License for more details.
16 %

```

```

17 % You should have received a copy of
18 % the GNU Lesser General Public License
19 % along with DevOrSysAdminScripts.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
23
24 \documentclass{article}
25
26 \usepackage[utf8]{inputenc}
27 \usepackage{subfigure}
28 \usepackage{amsmath}
29 \usepackage{amssymb}
30 \usepackage{amsthm}
31 \usepackage[pdftex]{hyperref}
32 \usepackage{tikz}
33 \usepackage{caption}
34 \usepackage[round]{natbib}
35 \usepackage{fancyhdr}
36 \usepackage{amsfonts}
37 \usepackage{times}
38 \usepackage{ifpdf}
39 \usepackage{latexsym}
40 \usepackage{graphicx}
41 \usepackage{enumerate}
42 \usepackage{pmbboxdraw}
43 \usepackage{fancyvrb}
44
45 % *** les environnements ***
46 %\theoremstyle{break}
47 \newtheorem{definition}[Definition][section]
48 \newtheorem{proposition}[definition]{Proposition}
49 \newtheorem{theorem}[definition]{Theorem}
50 \newtheorem{lemma}[definition]{Lemma}
51 \newtheorem{corollary}[definition]{Corollary}
52 \newtheorem{remark}[definition]{Remark}
53 \newtheorem{openproblem}[definition]{Open problem}
54
55 \begin{document}
56
57 \author{
58   Laurent Lyaudet\\
59   \url{https://lyaudet.eu/laurent/}\\
60   laurent.lyaudet@gmail.com
61 }
62 \title{DevOrSysAdminScripts}

```

```

63
64 \maketitle
65 \begin{abstract}
66 Some ``small'' useful scripts
67 for enhancing development or system-administrators tasks
68 \end{abstract}
69
70 Current version: @current_date@
71
72 Current number of commits: @number_of_commits@
73
74 Current git SHA1: @current_git_SHA1@
75
76 Code lines: @number_of_lines@
77
78 \section{Files tree}
79 \label{section:tree}
80
81 \begin{verbatim}
82 @current_tree_light@
83 \end{verbatim}
84
85 \begin{verbatim}
86 @current_tree@
87 \end{verbatim}
88
89 \section{Listing of files}
90 \label{section:listing}
91
92 The following source code is covered by LGPLv3+.
93 The text of the license is available at:
94 \url{https://www.gnu.org/licenses/}.
95 The git repository of this source code is also available at:
96 \url{https://github.com/LLyaudet/DevOrSysAdminScripts/}.
97
98
99 \subsection{
100     build\_and\_checks\_dependencies/build\_and\_checks.sh.tpl
101 }
102 \label{
103     build_and_checks_dependencies:build_and_checkssh.tpl
104 }
105
106 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
107     build_and_checks_dependencies/build_and_checks.sh.tpl
108 }

```

```

109
110
111 \subsection{
112     build\_and\_checks\_dependencies/build\_md\_from\_printable\_md.sh
113 }
114 \label{
115     build_and_checks_dependencies:build_md_from_printable_mdsh
116 }
117
118 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
119     build_and_checks_dependencies/build_md_from_printable_md.sh
120 }
121
122
123 \subsection{
124     build\_and\_checks\_dependencies/check\_shell\_scripts\_beginning.sh
125 }
126 \label{
127     build_and_checks_dependencies:check_shell_scripts_beginningsh
128 }
129
130 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
131     build_and_checks_dependencies/check_shell_scripts_beginning.sh
132 }
133
134
135 \subsection{
136     build\_and\_checks\_dependencies/check\_URLs.sh
137 }
138 \label{
139     build_and_checks_dependencies:check_URLssh
140 }
141
142 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
143     build_and_checks_dependencies/check_URLs.sh
144 }
145
146
147 \subsection{
148     build\_and\_checks\_dependencies/common\_build\_and\_checks.sh
149 }
150 \label{
151     build_and_checks_dependencies:common_build_and_checkssh
152 }
153
154 \VerbatimInput[numbers=left,xleftmargin=-5mm]{

```

```

155     build_and_checks_dependencies/common_build_and_checks.sh
156 }
157
158
159 \subsection{
160     build\_and\_checks\_dependencies/common\_build\_and\_checks.sh.tpl
161 }
162 \label{
163     build_and_checks_dependencies:common_build_and_checksssh
164 }
165
166 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
167     build_and_checks_dependencies/common_build_and_checks.sh.tpl
168 }
169
170
171 \subsection{
172     build\_and\_checks\_dependencies/create\_PDF.sh
173 }
174 \label{
175     build_and_checks_dependencies:create_PDFsh
176 }
177
178 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
179     build_and_checks_dependencies/create_PDF.sh
180 }
181
182
183 \subsection{
184     build\_and\_checks\_dependencies/get\_common\_text\_glob\_patterns%
185     .sh
186 }
187 \label{
188     build_and_checks_dependencies:get_common_text_glob_patternsssh
189 }
190
191 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
192     build_and_checks_dependencies/get_common_text_glob_patterns.sh
193 }
194
195
196 \subsection{
197     build\_and\_checks\_dependencies/lines\_counts.sh
198 }
199 \label{
200     build_and_checks_dependencies:lines_countssh

```



```

201 }
202
203 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
204     build_and_checks_dependencies/lines_counts.sh
205 }
206
207
208 \subsection{
209     build\_and\_checks\_dependencies/lines\_filters.sh
210 }
211 \label{
212     build_and_checks_dependencies:lines_filterssh
213 }
214
215 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
216     build_and_checks_dependencies/lines_filters.sh
217 }
218
219
220 \subsection{
221     build\_and\_checks\_dependencies/python\_black\_complement.sh
222 }
223 \label{
224     build_and_checks_dependencies:python_black_complementsh
225 }
226
227 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
228     build_and_checks_dependencies/python_black_complement.sh
229 }
230
231
232 \subsection{
233     build\_and\_checks\_dependencies/python\_isort\_complement.sh
234 }
235 \label{
236     build_and_checks_dependencies:python_isort_complementsh
237 }
238
239 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
240     build_and_checks_dependencies/python_isort_complement.sh
241 }
242
243
244 \subsection{
245     build\_and\_checks\_dependencies/too\_long\_code\_lines.sh
246 }

```

```

247 \label{
248     build_and_checks_dependencies:too_long_code_linessh
249 }
250
251 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
252     build_and_checks_dependencies/too_long_code_lines.sh
253 }
254
255
256 \subsection{
257     build\_and\_checks\_dependencies/update\_common\_build\_and\_checks%
258 .sh
259 }
260 \label{
261     build_and_checks_dependencies:update_common_build_and_checkssh
262 }
263
264 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
265     build_and_checks_dependencies/update_common_build_and_checks.sh
266 }
267
268
269 \subsection{
270     build\_and\_checks.sh
271 }
272 \label{
273     build_and_checkssh
274 }
275
276 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
277     build_and_checks.sh
278 }
279
280
281 \subsection{
282     git\_checks.sh
283 }
284 \label{
285     git_checkssh
286 }
287
288 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
289     git_checks.sh
290 }
291
292

```

```

293 \subsection{
294     latex/DevOrSysAdminScripts.tex.tpl
295 }
296 \label{
297     latex:DevOrSysAdminScriptstextpl
298 }
299
300 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
301     latex/DevOrSysAdminScripts.tex.tpl
302 }
303
304
305 \subsection{
306     LiensUtiles.txt
307 }
308 \label{
309     LiensUtilestxt
310 }
311
312 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
313     LiensUtiles.txt
314 }
315
316
317 \subsection{
318     pre-commit
319 }
320 \label{
321     pre-commit
322 }
323
324 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
325     pre-commit
326 }
327
328
329 \subsection{
330     README.md.tpl
331 }
332 \label{
333     READMEmdtpl
334 }
335
336 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
337     README.md.tpl
338 }

```

```

339
340
341 \subsection{
342     wget\_sha512.sh
343 }
344 \label{
345     wget_sha512sh
346 }
347
348 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
349     wget\_sha512.sh
350 }
351
352
353 Merci Dieu ! Merci P\`ere ! Merci Seigneur ! Merci Saint Esprit !
354
355 \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 Frédéric Bernard François 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 development 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 Frédéric Bernard François 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 !