

DevOrSysAdminScripts

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Abstract

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

Current version: 2024-05-16

Current number of commits: 82

Current git SHA1: 1d54cf82db4f9e5457d3cc9af55503527cd5dc

Code lines: 3406 total lines, 3022 not empty lines, 384 empty lines.

1 Files tree

```
.
├── build_and_checks_dependencies
│   ├── build_and_checks.sh.tpl
│   ├── build_md_from_printable_md.sh
│   ├── check_shell_scripts_beginnings.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
│   ├── grammar_and_spell_check.sh
│   └── licenses_templates
│       ├── build_licenses_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, 47 files

```
[ 12K May 16 20:13] ./
— [4.0K May 16 20:13] build_and_checks_dependencies/
  — [1.4K May 16 03:01] build_and_checks.sh.tpl*
  — [1.7K May 16 13:46] build_md_from_printable_md.sh*
  — [1.2K May 16 19:53] check_shell_scripts_beginnings.sh
  — [1.9K May 16 15:23] check_URLs.sh
  — [7.8K May 16 20:13] common_build_and_checks.sh*
  — [5.3K May 16 20:12] common_build_and_checks.sh.tpl
  — [2.9K May 16 15:28] comparisons.sh
  — [6.6K May 16 15:26] create_PDF.sh*
  — [1.5K May 16 15:33] generate_from_template.sh
  — [1.7K May 16 02:42] get_common_text_glob_patterns.sh
  — [1.5K May 16 20:01] grammar_and_spell_check.sh
```

```

├── [4.0K May 16 20:13] licenses_templates/
│   ├── [5.1K May 16 19:58] build_licenses_templates.sh*
│   ├── [ 713 May 16 14:58] license_file_header_GPLv3+.c.tpl
│   ├── [ 715 May 16 14:58] license_file_header_GPLv3+.py.tpl
│   ├── [ 747 May 16 14:58] license_file_header_GPLv3+.sh.tpl
│   ├── [ 747 May 16 14:58] license_file_header_GPLv3+.tex.tpl
│   ├── [ 707 May 14 23:23] license_file_header_GPLv3+.tpl
│   ├── [ 782 May 16 14:58] license_file_header_LGPLv3+.c
│   ├── [ 734 May 16 14:58] license_file_header_LGPLv3+.c.tpl
│   ├── [ 784 May 16 14:58] license_file_header_LGPLv3+.py
│   ├── [ 736 May 16 14:58] license_file_header_LGPLv3+.py.tpl
│   ├── [ 816 May 16 14:58] license_file_header_LGPLv3+.sh
│   ├── [ 768 May 16 14:58] license_file_header_LGPLv3+.sh.tpl
│   ├── [ 816 May 16 14:58] license_file_header_LGPLv3+.tex
│   ├── [ 768 May 16 14:58] license_file_header_LGPLv3+.tex.tpl
│   └── [ 728 May 14 23:24] license_file_header_LGPLv3+.tpl
├── [1.7K May 16 15:15] lines_counts.sh
├── [5.4K May 16 15:17] lines_filters.sh
├── [1.1K May 16 15:32] overwrite_if_not_equal.sh
├── [1.3K May 16 02:43] python_black_complement.sh
├── [1.5K May 16 15:27] python_isort_complement.sh
├── [1.2K May 16 15:32] too_long_code_lines.sh
├── [2.4K May 16 20:12] update_common_build_and_checks.sh*
├── [1.6K May 16 20:13] 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
├── [144K May 16 20:07] DevOrSysAdminScripts.pdf
├── [2.5K May 16 15:31] git_checks.sh
├── [4.0K May 16 20:13] latex/
│   ├── [ 13K May 16 20:13] DevOrSysAdminScripts.tex
│   └── [ 13K May 16 19:42] DevOrSysAdminScripts.tex.tpl
├── [ 424 May  6 00:49] LiensUtiles.txt
├── [1.1K May 16 02:44] pre-commit
├── [1.6K May 16 14:58] README.md
├── [1.6K May 15 18:00] README.md.tpl
├── [ 629 May 16 18:41] repository_data.txt
└── [1.2K May 16 15:27] wget_sha512.sh

```

4 directories, 47 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:
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6  # of the GNU Lesser General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
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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
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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/overwrite_if_not_equal.sh"
27
28 sed_expression='s/(\[[a-zA-Z0-9:-]*\]): [^\n\]*\\\\n/\\1/Mg'
29 sed_expression+=';s/(<http[^\n\]*\\\\n/\\1/Mg'
30 sed_expression+=';s/(- <http[^\n\]*\\\\n/\\1/Mg'
31
32 pushd .
33 if [[ -n "$1" ]];
34 then
35     cd "$1"
36 fi
37
38 if [[ -n "$2" ]];
39 then

```

```

40     file_name="$2"
41 else
42     file_name="README"
43 fi
44
45 if [[ -f "${file_name}.md.tpl" ]];
46 then
47     sed -Ez "$sed_expression" "${file_name}.md.tpl"\
48     > "${file_name}_temp1.md"
49     sed -Ez "$sed_expression" "${file_name}_temp1.md"\
50     > "${file_name}_temp2.md"
51     sed -Ez "$sed_expression" "${file_name}_temp2.md"\
52     > "${file_name}_temp3.md"
53     sed -Ez "$sed_expression" "${file_name}_temp3.md"\
54     > "${file_name}_temp4.md"
55     overwrite_if_not_equal "${file_name}.md" "${file_name}_temp4.md"
56     rm "${file_name}_temp1.md" "${file_name}_temp2.md"\
57     "${file_name}_temp3.md"
58 else
59     echo "No file ${file_name}.md.tpl"
60 fi
61
62 popd

```

2.3 build_and_checks_dependencies/check_shell_scripts_beginnings.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
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10 #
11 # DevOrSysAdminScripts is distributed in the hope
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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
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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     LFBFL_file_name=$(basename "$1")
27     if [[ "$LFBFL_file_name" =~ license_file_header_.*\.sh ]];
28     then
29         return 0
30     fi
31     diff <(head -n 1 "$1") <(echo '#!/usr/bin/env bash')
32 }
33
34
35 check_shell_scripts_beginnings() {
36     shopt -s globstar
37     for check_shell_scripts_beginnings_var_i in **/*.sh; do
38         check_one_shell_script_beginning\
39             "$check_shell_scripts_beginnings_var_i"
40     done
41 }

```

2.4 build and checks dependencies/check_URLs.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
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4 # DevOrSysAdminScripts is free software:
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18 # You should have received a copy of
19 # the GNU Lesser General Public License
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22 #

```

```

23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 check_URLs() {
29     get_common_text_files_glob_patterns
30
31     declare -A LFBFL_substitutions
32     LFBFL_substitutions=(\
33         ["http://www.gnu.org/licenses/"]="https://www.gnu.org/licenses/"\
34     )
35
36     for LFBFL_pattern in "${common_file_patterns[@]}; do
37         [ "$1" != "-v" ] || echo "Iterating on pattern: $LFBFL_pattern"
38         find . -type f -name "$LFBFL_pattern" -printf '%P\n'\
39             | xargs grep -H 'http:'\
40             | grep -v "^[^:]*check_URLs.sh:"
41         for LFBFL_file_name in $LFBFL_pattern; do
42             [ -f "$LFBFL_file_name" ] || continue
43             LFBFL_base_file_name=$(basename "$LFBFL_file_name")
44             [ "$LFBFL_base_file_name" != "check_URLs.sh" ] || continue
45             [ "$1" != "-v" ] || echo "Handling the file: $LFBFL_file_name"
46             for LFBFL_substitution in "${!LFBFL_substitutions[@]}; do
47                 LFBFL_substitution2=\
48                 ${LFBFL_substitutions[$LFBFL_substitution]}
49                 if grep -q "$LFBFL_substitution" "$LFBFL_file_name"; then
50                     sed -i "s|$LFBFL_substitution|$LFBFL_substitution2|g"\
51                         "$LFBFL_file_name"
52                 fi
53             done
54         done
55     done
56 }

```

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:
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9 # or (at your option) any later version.

```



```

10 #
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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="$URL_beginning/build_md_from_printable_md.sh"
34 correct_sha512='5231a90246a58da4bb27440edd3281c02b05e29cd9b1bfe340a25'
35 correct_sha512+='7eefcf7df82f70ed3ce95a112bc03710839b2dfde066317c938f'
36 correct_sha512+='302bc599f8d293d45910b8a'
37 wget_sha512 "$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_beginnings.sh"
42 correct_sha512='d94931d4b20b7987aed4dd02663ad5feba3389c8fdea2fdbfb91d'
43 correct_sha512+='0b71eed4ef80c8d4a8eef5c147837183b2c9ed6d577cda3ad67f'
44 correct_sha512+='6d6485a015eac56fa0daa3b'
45 wget_sha512 "$subdir/check_shell_scripts_beginnings.sh" "$script" \
46 "$correct_sha512"
47
48 script="$URL_beginning/check_URLs.sh"
49 correct_sha512='d83cac890cc02fabaed5612ff59dd581e4e42e4f9de5710ad80bb'
50 correct_sha512+='41db46f9e2ec6f5bddb6006e209e81d45432a908717d10188ebc'
51 correct_sha512+='a623b1493e4098dd78cd80b'
52 wget_sha512 "$subdir/check_URLs.sh" "$script" "$correct_sha512"
53
54 script="$URL_beginning/comparisons.sh"
55 correct_sha512='df5bfe91de1fb948601776c2205f313fca6fabcb1703ec94c36d77'

```

```

56 correct_sha512+= '4c623f1d694de26eff0e6b950000ff84c12f2747c9403b7981b2'
57 correct_sha512+= '92aa2bd06a9e74fa0beb798'
58 wget_sha512 "$subdir/comparisons.sh" "$script" "$correct_sha512"
59
60 script="$URL_beginning/create_PDF.sh"
61 correct_sha512='dea932f06ab14e3ee2d1c2142fe76e901bf1d42c80629b7e41e7a'
62 correct_sha512+= '6ebd8bdf4a12bfd023ad7bb7732ff0f9243f198c0fe529dd139f'
63 correct_sha512+= 'ea38ed235c0c7267bc25c54'
64 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"
65 chmod +x "$subdir/create_PDF.sh"
66
67 script="$URL_beginning/generate_from_template.sh"
68 correct_sha512='5a7732f2f93ce4020cbaea76dfd94cdaf313dd2f472d5ab0d9361'
69 correct_sha512+= '7b3e6bf1bdea2a4475989689cbf1f50e8dac50c49b0ea7c385d7'
70 correct_sha512+= '00999336dd0bd03483fba64'
71 wget_sha512 "$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 script="$URL_beginning/grammar_and_spell_check.sh"
82 correct_sha512='69dcb77061f2e560d6268622ae72ef11d412b996520b7321b1f20'
83 correct_sha512+= '427fb4eda6d2fb5909938da6c0af4099921190298d372466dea3'
84 correct_sha512+= 'b45805f0c271da852578075'
85 wget_sha512 "$subdir/grammar_and_spell_check.sh" "$script" \
86     "$correct_sha512"
87
88 URL_beginning2="$URL_beginning/licenses_templates"
89 subdir2="$subdir/licenses_templates"
90 script="$URL_beginning2/build_licenses_templates.sh"
91 correct_sha512='6cc01a243d5561a8be48af1867eda7ce05b28470abe72e0f20cf9'
92 correct_sha512+= '06db230aed50a886b632cb722alb7c20e97fd31e70686da2db88'
93 correct_sha512+= 'f467fdf5479199f15ed0df8'
94 wget_sha512 "$subdir2/build_licenses_templates.sh" "$script" \
95     "$correct_sha512"
96 chmod +x "$subdir2/build_licenses_templates.sh"
97
98 script="$URL_beginning2/license_file_header_GPLv3+.tpl"
99 correct_sha512='2bdef9a729a5a9ca5ed87ef8a518877c5ee6b31b4533608660316'
100 correct_sha512+= 'a4e595fb31465a4847f4d53a2f7264118bd4eab7c1d1892e00bc'
101 correct_sha512+= '1861455ed02898f194db067'

```

```

102 wget_sha512 "$subdir2/license_file_header_GPLv3+.tpl" "$script"\
103 "$correct_sha512"
104
105 script="$URL_beginning2/license_file_header_LGPLv3+.tpl"
106 correct_sha512='265fd0d086b48ab798f35a072335a4976e4eda8c256febba6c77c'
107 correct_sha512+='98ca86cdd844c6ac150c3445c80debbb3fc2574b5fceeaf79ec'
108 correct_sha512+='734a759bdef5fe798067c62'
109 wget_sha512 "$subdir2/license_file_header_LGPLv3+.tpl" "$script"\
110 "$correct_sha512"
111
112 script="$URL_beginning/lines_counts.sh"
113 correct_sha512='4aa984d1a3709d3ed6ad5a4accc5e1d9cee2f174730ef232dbcd6'
114 correct_sha512+='1d3661191e1904a0072fdb818c96e4aff5e58d5d7b0b024a874f'
115 correct_sha512+='17acb35d98bbde10fb6dacd'
116 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
117
118 script="$URL_beginning/lines_filters.sh"
119 correct_sha512='692bea2719639e37d761ac5330633f31cfe4252cf3c114e51b5e2'
120 correct_sha512+='0f57fa3ff6385e9a792ad6e701f0e33be45db30a38470507a995'
121 correct_sha512+='eda016e2755b9f05dba0d08'
122 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
123
124 script="$URL_beginning/overwrite_if_not_equal.sh"
125 correct_sha512='afabf6f384e61920dbc575afb1519173ac2654b6180b9a28c5ffc'
126 correct_sha512+='173a05c6e6d4011d7bc8912da15caee923c9033d8355967920e4'
127 correct_sha512+='d05e2cd575c3cf065fc8e40'
128 wget_sha512 "$subdir/overwrite_if_not_equal.sh" "$script"\
129 "$correct_sha512"
130
131 script="$URL_beginning/python_black_complement.sh"
132 correct_sha512='7152e9d01cc3c72371695635cd6866b2e13ce25f4842afb8e4e87'
133 correct_sha512+='b6447b26abafbdb8c850f69946913b5b2c423b265c9066a2b4655'
134 correct_sha512+='6dea19c04a5416588423a74'
135 wget_sha512 "$subdir/python_black_complement.sh" "$script"\
136 "$correct_sha512"
137
138 script="$URL_beginning/python_isort_complement.sh"
139 correct_sha512='770e5ed16e4b5f6d61577794033161d361bc2eacea6d08a5c7b9a'
140 correct_sha512+='1577666cf655d1c947108adb9151d87f937471d30716a6d50d76'
141 correct_sha512+='f84bbcf1f1620fb9ede4575'
142 wget_sha512 "$subdir/python_isort_complement.sh" "$script"\
143 "$correct_sha512"
144
145 script="$URL_beginning/too_long_code_lines.sh"
146 correct_sha512='a8716971f22a14160701b6e801c4f66220e2e1dd174f24e43775e'
147 correct_sha512+='e743aeaa4ee66dadae185e134c3554f8c37d8ee457d051336ed3'

```

```

148 correct_sha512+= '430b734bcf80e8d5704064b'
149 wget_sha512 "$subdir/too_long_code_lines.sh" "$script"\
150     "$correct_sha512"
151
152 shopt -s globstar
153 source "$subdir/check_shell_scripts_beginnings.sh"
154 source "$subdir/check_URLs.sh"
155 source "$subdir/comparisons.sh"
156 source "$subdir/generate_from_template.sh"
157 source "$subdir/get_common_text_glob_patterns.sh"
158 source "$subdir/lines_counts.sh"
159 source "$subdir/lines_filters.sh"
160 source "$subdir/overwrite_if_not_equal.sh"
161 source "$subdir/python_black_complement.sh"
162 source "$subdir/python_isort_complement.sh"
163 source "$subdir/too_long_code_lines.sh"
164
165 cwd="."
166 if [[ -n "$1" ]];
167 then
168     cwd="$1"
169 fi
170
171 echo "Building license headers"
172 "$subdir2/build_licenses_templates.sh" "$cwd"
173
174 echo "Building README.md"
175 "$subdir/build_md_from_printable_md.sh" "$cwd"
176
177 pushd .
178 cd "$cwd"
179
180 echo "Running isort"
181 isort .
182 python_isort_complement
183
184 echo "Running black"
185 black .
186 python_black_complement
187
188 find . -name "pyproject.toml" | relevant_find\
189 | while read -r file_name;
190 do
191     if grep -q "Typing :: Typed" "$file_name"; then
192         echo "Running mypy"
193         mypy $(dirname "$file_name")

```

```

194     fi
195 done
196
197 echo "Analyzing too long lines"
198 too_long_code_lines | relevant_grep | not_license_grep
199
200 echo "Analyzing shell scripts beginnings"
201 check_shell_scripts_beginnings | relevant_grep
202
203 echo "Analyzing URLs"
204 check_URLs | relevant_grep
205
206 echo "Creating the PDF file of the listing of the source code"
207 ./build_and_checks_dependencies/create_PDF.sh
208
209 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
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8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
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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_beginnings.sh"
40 @sha512_check_shell_scripts_beginnings.sh@
41 wget_sha512 "$subdir/check_shell_scripts_beginnings.sh" "$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 script="$URL_beginning/grammar_and_spell_check.sh"
68 @sha512_grammar_and_spell_check.sh@
69 wget_sha512 "$subdir/grammar_and_spell_check.sh" "$script" \
70 "$correct_sha512"
71
72 URL_beginning2="$URL_beginning/licenses_templates"
73 subdir2="$subdir/licenses_templates"

```

```

74 script="$URL_beginning2/build_licenses_templates.sh"
75 @sha512_build_licenses_templates.sh@
76 wget_sha512 "$subdir2/build_licenses_templates.sh" "$script" \
77     "$correct_sha512"
78 chmod +x "$subdir2/build_licenses_templates.sh"
79
80 script="$URL_beginning2/license_file_header_GPLv3+.tpl"
81 @sha512_license_file_header_GPLv3+.tpl@
82 wget_sha512 "$subdir2/license_file_header_GPLv3+.tpl" "$script" \
83     "$correct_sha512"
84
85 script="$URL_beginning2/license_file_header_LGPLv3+.tpl"
86 @sha512_license_file_header_LGPLv3+.tpl@
87 wget_sha512 "$subdir2/license_file_header_LGPLv3+.tpl" "$script" \
88     "$correct_sha512"
89
90 script="$URL_beginning/lines_counts.sh"
91 @sha512_lines_counts.sh@
92 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
93
94 script="$URL_beginning/lines_filters.sh"
95 @sha512_lines_filters.sh@
96 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
97
98 script="$URL_beginning/overwrite_if_not_equal.sh"
99 @sha512_overwrite_if_not_equal.sh@
100 wget_sha512 "$subdir/overwrite_if_not_equal.sh" "$script" \
101     "$correct_sha512"
102
103 script="$URL_beginning/python_black_complement.sh"
104 @sha512_python_black_complement.sh@
105 wget_sha512 "$subdir/python_black_complement.sh" "$script" \
106     "$correct_sha512"
107
108 script="$URL_beginning/python_isort_complement.sh"
109 @sha512_python_isort_complement.sh@
110 wget_sha512 "$subdir/python_isort_complement.sh" "$script" \
111     "$correct_sha512"
112
113 script="$URL_beginning/too_long_code_lines.sh"
114 @sha512_too_long_code_lines.sh@
115 wget_sha512 "$subdir/too_long_code_lines.sh" "$script" \
116     "$correct_sha512"
117
118 shopt -s globstar
119 source "$subdir/check_shell_scripts_beginnings.sh"

```

```

120 source "$subdir/check_URLs.sh"
121 source "$subdir/comparisons.sh"
122 source "$subdir/generate_from_template.sh"
123 source "$subdir/get_common_text_glob_patterns.sh"
124 source "$subdir/lines_counts.sh"
125 source "$subdir/lines_filters.sh"
126 source "$subdir/overwrite_if_not_equal.sh"
127 source "$subdir/python_black_complement.sh"
128 source "$subdir/python_isort_complement.sh"
129 source "$subdir/too_long_code_lines.sh"
130
131 cwd="."
132 if [[ -n "$1" ]];
133 then
134     cwd="$1"
135 fi
136
137 echo "Building license headers"
138 "$subdir2/build_licenses_templates.sh" "$cwd"
139
140 echo "Building README.md"
141 "$subdir/build_md_from_printable_md.sh" "$cwd"
142
143 pushd .
144 cd "$cwd"
145
146 echo "Running isort"
147 isort .
148 python_isort_complement
149
150 echo "Running black"
151 black .
152 python_black_complement
153
154 find . -name "pyproject.toml" | relevant_find\
155 | while read -r file_name;
156 do
157     if grep -q "Typing :: Typed" "$file_name"; then
158         echo "Running mypy"
159         mypy $(dirname "$file_name")
160     fi
161 done
162
163 echo "Analyzing too long lines"
164 too_long_code_lines | relevant_grep | not_license_grep
165

```



```

166 echo "Analyzing shell scripts beginnings"
167 check_shell_scripts_beginnings | relevant_grep
168
169 echo "Analyzing URLs"
170 check_URLs | relevant_grep
171
172 echo "Creating the PDF file of the listing of the source code"
173 ./build_and_checks_dependencies/create_PDF.sh
174
175 popd

```

2.7 build_and_checks_dependencies/comparisons.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
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15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
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20 # along with DevOrSysAdminScripts.
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22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24
25 equal(){
26     # Returns 1 if all the arguments strings are equal.
27     # Renvoie 1 dans $? si toutes les chaînes en arguments sont égales.
28     # J'ai rerepensé au 3-way-merge
29     # et à mon article sur le principe de première différence
30     # appliqué à la largeur modulaire, de clique ou de rang avec
31     # l'idée d'un principe de première différence ternaire.
32     equal_var_all_args="'$*'"
33     equal_var_current="$equal_var_all_args"

```

```

34   for equal_var_arg in $@; do
35       if [[ "$equal_var_current" == "$equal_var_all_args" ]]; then
36           equal_var_current="$equal_var_arg"
37           continue
38       fi
39       if [[ "$equal_var_current" != "$equal_var_arg" ]]; then
40           return 0
41       fi
42   done
43   return 1
44 }
45
46 max(){
47     # Returns the maximum string among the arguments.
48     # Renvoie la chaîne la plus grande parmi celles proposées.
49     # $1=$sort command with the flags you want to be applied.
50     # $ max sort a b c
51     # c
52     if [[ "$#" == 0 ]]; then
53         return 1
54     fi
55     printf "%s\n" "${@:2}" | eval "$1 -r" | head -1
56 }
57
58 min(){
59     # Returns the minimum string among the arguments.
60     # Renvoie la chaîne la plus petite parmi celles proposées.
61     # $1=$sort command with the flags you want to be applied.
62     # $ min sort a b c
63     # a
64     if [[ "$#" == 0 ]]; then
65         return 1
66     fi
67     printf "%s\n" "${@:2}" | eval "$1" | head -1
68 }
69
70 is_substring(){
71     # $1=$string
72     # $2=$substring
73     is_substring_var_1=$(
74         echo "$1" | sed -e 's/\\/\\&/g' -e "s/'/\\\\&/g"
75     )
76     is_substring_var_2=$(
77         echo "$2" | sed -e 's/\\/\\&/g' -e "s/'/\\\\&/g"
78     )
79     is_substring_var_3="\$a = '$is_substring_var_1';"

```

```

80     is_substring_var_3+=" \b = preg_quote('$is_substring_var_2');"
81     is_substring_var_3+=" \c = '/'.addslashes(\b, '/').'/';"
82     is_substring_var_3+=" die(preg_match(\c, \a));"
83     php -r "$is_substring_var_3"
84 }
85
86 is_subfile() {
87     # $1=$file_name
88     # $2=$sub_file_name
89     is_subfile_var_1="\a = file_get_contents('$1');"
90     is_subfile_var_1+=" \b = preg_quote(file_get_contents('$2'));"
91     is_subfile_var_1+=" \c = '/'.addslashes(\b, '/').'/';"
92     is_subfile_var_1+=" die(preg_match(\c, \a));"
93     php -r "$is_subfile_var_1"
94 }

```

2.8 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:
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9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
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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
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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 file_name;
86 do
87     git check-ignore -q "$file_name" && continue
88     base_file_name=$(basename "$file_name")
89     [ "$base_file_name" != "current_tree_light.txt" ] || continue
90     [ "$base_file_name" != "current_tree.txt" ] || continue
91     [ "$base_file_name" != "COPYING" ] || continue
92     [ "$base_file_name" != "COPYING.LESSER" ] || continue
93     [ "$base_file_name" != "$main_directory.pdf" ] || continue
94     [ "$base_file_name" != "$main_directory.tex" ] || continue
95     [ "$base_file_name" != "$main_directory.tex.tpl2" ] || continue
96     if [[ "$base_file_name" == *.md ]]; then
97         if [ -f "$file_name.tpl" ]; then
98             # in_place_grep -v "$base_file_name$" current_tree.txt
99             # in_place_grep -v "$base_file_name$" current_tree_light.txt
100             continue
101         fi
102     fi
103     cleaned_path1=$(sed -e 's/_/\_\_/g' <(echo "$file_name"))
104     cleaned_path2=$(sed -e 's/\//:/g' -e 's/\././g' <(echo "$file_name"))
105     if grep -q " $file_name\$" ". /latex/$main_directory.tex.tpl2"; then
106         echo ""
107         # sed -i -Ez\
108         # "s/$file_name\n/\
109         # ${file_name/./\./g}\hyperref\{\${file_name/./\./g}\}\n/Mg"\
110         # "current_tree_light.txt"
111     else
112         echo "The file $file_name is not listed"\
113             " in ./latex/$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:  $file_name"
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     LFBFL_start=$(
137       echo "$1" | sed -e 's/\\n/\\n/g' | head --lines=-1\
138       | sed -z 's/\\n/\\n/g'\
139     )
140     # echo "start: $LFBFL_start"
141     LFBFL_last_line=$(
142       echo "$1" | sed -e 's/\\n/\\n/g' | tail --lines=1\
143     )
144     # echo "last_line: $LFBFL_last_line"
145     split_last_line_result=""
146     if [[ -n "$LFBFL_start" ]]; then
147       split_last_line_result="$LFBFL_start\n"
148     fi
149     split_last_line_result+="${LFBFL_last_line:0:69}\n"
150     split_last_line_result+="$2${LFBFL_last_line:69}"
151   fi
152 }
153
154 # We verify if some lines are beyond 70 characters
155 # in current_tree_light.txt et current_tree.txt.
156 trees=("current_tree_light.txt" "current_tree.txt")
157 for some_tree in "${trees[@]}; do
158   grep '\.{71\}$' "$some_tree" | while read -r some_line; do
159     # echo "some_line: $some_line"
160     prefix=$(
161       echo "$some_line"\
162       | sed -E -e 's/(.*)-[^-]+$/\1/g' -e 's/[^ ]+$/\1/g'\
163     )
164     prefix+="| "
165     # echo "prefix: $prefix"
166     file_name=$(

```

```

167     echo "$some_line"\
168         | sed -E 's|.* ([[a-zA-Z0-9\._/-]+).)$|\1|g'\
169 )
170 # echo "file_name: $file_name"
171 line_start=$( \
172     echo "$some_line"\
173         | sed -E "s/(.*)[ ]*$file_name/\1/g"\
174         | sed -e 's/ */ /g'
175 )
176 # echo "line_start: $line_start"
177 some_line=$( \
178     echo "$some_line"\
179         | sed -E -e 's/[\\\/\[\]/g' -e 's/]/\\\/g'\
180 )
181 new_lines="$prefix$file_name"
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=$split_last_line_result
188 split_last_line "$new_lines" "$prefix"
189 new_lines=$split_last_line_result
190 sed -i -e "s/$some_line/$line_start\n$new_lines/g" "$some_tree"
191 done
192 done
193
194 sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}'\
195     "./latex/$main_directory.tex"
196 sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}'\
197     "./latex/$main_directory.tex"
198
199 pdflatex "./latex/$main_directory.tex" > /dev/null
200 pdflatex "./latex/$main_directory.tex" > /dev/null
201 pdflatex "./latex/$main_directory.tex" > /dev/null
202
203 files_to_delete=(\
204     "$main_directory.aux"\
205     "$main_directory.log"\
206     "$main_directory.out"\
207     "current_tree.txt"
208     "current_tree_light.txt"
209     "./latex/$main_directory.tex.tpl2"
210 )
211 # Comment the following line if you need to debug.
212 for file_name in "${files_to_delete[@]}; do

```

```

213     rm -f "$file_name"
214 done

```

2.9 build_and_checks_dependencies/generate_from_template.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
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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.
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22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24
25 generate_from_template_with_block_comments() {
26     # $1=base_file_name
27     # $2=target_file_name
28     # $3=enter_block_comment
29     # $4=exit_block_comment
30     LFBFL_temp=".generate_from_template_with_block_comments.temp"
31     echo "$3" > "$2$LFBFL_temp"
32     cat "$1" >> "$2$LFBFL_temp"
33     echo "$4" >> "$2$LFBFL_temp"
34     overwrite_if_not_equal "$2" "$2$LFBFL_temp"
35 }
36
37 generate_from_template_with_line_comments() {
38     # $1=base_file_name
39     # $2=target_file_name
40     # $3=line_comment_prefix
41     # $4=optional_post_processing

```



```

42 LFBFL_temp=".generate_from_template_with_line_comments.temp"
43 sed -e "s/^/$3/g" "$1" > "$2$LFBFL_temp"
44 if [[ -n "$4" ]]; then
45     eval "$4"
46 fi
47 overwrite_if_not_equal "$2" "$2$LFBFL_temp"
48 }

```

2.10 build_and_checks_dependencies/get_common_text_glob_patterns.sh

```

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17 #
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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 }

```

2.11 build_and_checks_dependencies/licenses_templates/build_licenses_templates.sh

```
1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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4  # DevOrSysAdminScripts is free software:
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9  # or (at your option) any later version.
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22 #
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/comparisons.sh"
27 source "$subdir/generate_from_template.sh"
28 source "$subdir/lines_filters.sh"
29 source "$subdir/overwrite_if_not_equal.sh"
30
31 license_subdir="$subdir/licenses_templates/"
32 license_prefix="$license_subdir"license_file_header_"
33 licenses=(\
34     "GPLv3+" \
35     "LGPLv3+"
36 )
37
38 # -----
39 # Various language definitions for text file formats
40 block_comment_languages=(\
41     "c" \
42     "py" \
43 )
44 block_comment_enters=(\
```

```

45     '/' '*' '\
46     '""""'\
47 )
48 block_comment_exits=(\
49     '/' '*' '\
50     '""""'\
51 )
52 equal "${#block_comment_languages[@]}" "\
53     "${#block_comment_enters[@]}" "\
54     "${#block_comment_exits[@]}"
55 if [[ $? == 0 ]]; then
56     echo '/!\' "Problème de définition des tableaux de langages 1"/!\'
57 fi
58
59 line_comment_languages=(\
60     "sh"\
61     "tex"\
62 )
63 line_comment_prefixes=(\
64     '#' '\
65     '%' '\
66 )
67 equal "${#line_comment_languages[@]}" "\
68     "${#line_comment_prefixes[@]}"
69 if [[ $? == 0 ]]; then
70     echo '/!\' "Problème de définition des tableaux de langages 2"/!\'
71 fi
72 # -----
73
74 # -----
75 # We generate the license header templates adapted to various text
76 # files formats.
77 # Kamoulox do endfor, Jacques Beauregard XD
78 # (C'est toujours mieux que l'inverse :) !)
79 # for do endfor -> for do done (Fort Doux Donne).
80 for license in "${licenses[@]"; do
81     license_prefix2="$license_prefix$license"
82     for ((i=0; i<${#block_comment_languages[@]}; i++)); do
83         extension=${block_comment_languages[i]}
84         license_file_name="$license_prefix2.$extension"
85         enter_string=${block_comment_enters[i]}
86         exit_string=${block_comment_exits[i]}
87         generate_from_template_with_block_comments\
88             "$license_prefix2.tpl"\
89             "$license_file_name.tpl"\
90             "$enter_string" "$exit_string"

```

```

91     done
92     LFBFL_temp2=".generate_from_template_with_line_comments.temp"
93     for ((i=0; i<${#line_comment_languages[@]}; i++)); do
94         extension=${line_comment_languages[i]}
95         license_file_name="$license_prefix2.$extension"
96         prefix_string=${line_comment_prefixes[i]}
97
98         generate_from_template_with_line_comments\
99             "$license_prefix2.tpl"\
100             "$license_file_name.tpl"\
101             "$prefix_string"\
102             "sed -i -E -e 's/\s*$//g' '$license_file_name.tpl$LFBFL_temp2' "
103     done
104 done
105 # -----
106
107 file_name=repository_data.txt
108 grep_variable "$file_name" repository_name
109 grep_variable "$file_name" license
110 grep_variable "$file_name" author_full_name
111 license_prefix2="$license_prefix$license"
112 # First year according to current state of git repository.
113 first_year="$(git log | grep 'Date:' | cut -f 8 -d ' ' | tail -1)"
114 # Last year according to current state of git repository.
115 last_year="$(git log | grep 'Date:' | cut -f 8 -d ' ' | head -1)"
116 copyright_string="$first_year-$last_year $author_full_name"
117 for ((i=0; i<${#block_comment_languages[@]}; i++)); do
118     extension=${block_comment_languages[i]}
119     license_file_name="$license_prefix2.$extension"
120     sed -e "s/@repository_name@/$repository_name/g"\
121         -e "s/@copyright_string@/$copyright_string/g"\
122         "$license_file_name.tpl" > "$license_file_name.temp"
123     overwrite_if_not_equal "$license_file_name"\
124         "$license_file_name.temp"
125     head --lines=-1 "$license_file_name" | tail --lines=-1\
126         > "$license_file_name.temp"
127     find . -type f -name "$*. $extension" -printf '%P\n' | relevant_find\
128         | while read -r file_name;
129     do
130         if is_subfile "$file_name" "$license_file_name.temp"
131         then
132             echo "File $file_name has no/wrong license header?"
133         fi
134     done
135     rm "$license_file_name.temp"
136 done

```

```

137 for ((i=0; i<${#line_comment_languages[@]}; i++)); do
138     extension=${line_comment_languages[i]}
139     license_file_name="$license_prefix2.$extension"
140     sed -e "s/@repository_name@/$repository_name/g"\
141         -e "s/@copyright_string@/$copyright_string/g"\
142         "$license_file_name.tpl" > "$license_file_name.temp"
143     overwrite_if_not_equal "$license_file_name"\
144         "$license_file_name.temp"
145     find . -type f -name "*. $extension" -printf '%P\n' | relevant_find\
146         | while read -r file_name;
147     do
148         if is_subfile "$file_name" "$license_file_name"
149         then
150             echo "File $file_name has no/wrong license header?"
151         fi
152     done
153 done

```

2.12 build_and_checks_dependencies/licenses.templates/license_file_header_GPLv3+.c.tpl

```

1  /*
2  This file is part of @repository_name@ library.
3
4  @repository_name@ is free software:
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6  of the GNU 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  @repository_name@ is distributed in the hope
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13  but WITHOUT ANY WARRANTY;
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15  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16  See the GNU General Public License for more details.
17
18  You should have received a copy of
19  the GNU General Public License
20  along with @repository_name@.
21  If not, see <https://www.gnu.org/licenses/>.
22
23  ©Copyright @copyright_string@
24  */

```

2.13 build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.py.tpl

```
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4  @repository_name@ is free software:
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8  either version 3 of the License,
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22
23  ©Copyright @copyright_string@
24  """
```

2.14 build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.sh.tpl

```
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6  # as published by the Free Software Foundation,
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9  #
10 # @repository_name@ is distributed in the hope
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```

```

18 # the GNU General Public License
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21 #
22 # ©Copyright @copyright_string@

```

2.15 build_and_checks_dependencies/licenses.templates/license_file_header_GPLv3+.tex.tpl

```

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8 % or (at your option) any later version.
9 %
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20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright @copyright_string@

```

2.16 build_and_checks_dependencies/licenses.templates/license_file_header_GPLv3+.tpl

```

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```

2.17 build_and_checks_dependencies/licenses_templates/license_file_header LGPLv3+.c

```

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23  ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24  */

```

2.18 build_and_checks_dependencies/licenses_templates/license_file_header LGPLv3+.c.tpl

```

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```

```

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10
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22
23  ©Copyright @copyright_string@
24  */

```

2.19 build_and_checks_dependencies/licenses.templates/license_file_header LGPLv3+.py

```

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17
18  You should have received a copy of
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20  along with DevOrSysAdminScripts.
21  If not, see <https://www.gnu.org/licenses/>.
22
23  ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24  """

```

2.20 build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.py.tpl

```
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10
11  @repository_name@ is distributed in the hope
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16  See the GNU Lesser General Public License for more details.
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18  You should have received a copy of
19  the GNU Lesser General Public License
20  along with @repository_name@.
21  If not, see <https://www.gnu.org/licenses/>.
22
23  ©Copyright @copyright_string@
24  """
```

2.21 build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.sh

```
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```

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```

2.22 build_and_checks_dependencies/licenses.templates/license_file_header LGPLv3+.sh.tpl

```

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```

2.23 build_and_checks_dependencies/licenses.templates/license_file_header LGPLv3+.tex

```

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```

```

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```

2.24 build_and_checks_dependencies/licenses.templates/license_file_header LGPLv3+.tex.tpl

```

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```

2.25 build_and_checks_dependencies/licenses.templates/license_file_header LGPLv3+.tpl

```

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9

```

```

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```

2.26 build_and_checks_dependencies/lines_counts.sh

```

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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 LFBFL_pattern in "${common_file_patterns[@]}"; do
32         [ "$1" != "-v" ] || echo "Iterating on pattern: $LFBFL_pattern"
33         find . -type f -name "$LFBFL_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_file_name
45 }
46
47 all_self_not_empty_code_lines(){
48     all_self_code_lines | not_empty_lines_after_file_name
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 }

```

2.27 build and checks dependencies/lines_filters.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
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```

```

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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     ll_wc_var_args=""
50     ll_wc_var_number_only=0
51     for ll_wc_var_arg in $@; do
52         if [[ $ll_wc_var_arg == "-n" ]]; then
53             ll_wc_var_number_only=1
54         elif [[ $ll_wc_var_arg == "--no-filenames" ]]; then
55             ll_wc_var_number_only=1
56         else
57             if [[ $ll_wc_var_number_only == 0 ]]; then
58                 ll_wc_var_args+=" "$ll_wc_var_arg"

```



```

59         continue
60     fi
61     if [[ "$ll_wc_var_arg" == "-*" ]]; then
62         ll_wc_var_args+=" "$ll_wc_var_arg
63     fi
64 fi
65 done
66 # echo "$ll_wc_var_args"
67 # echo "$ll_wc_var_number_only"
68 if [[ $ll_wc_var_number_only -gt 0 ]]; then
69     # Too simple code, only the base use case is handled now.
70     # Convenient but incomplete.
71     # With more time,
72     # the simpler would be to submit a patch to GNU coreutils,
73     # unless blockade from assholes.
74     # Otherwise, it may be more simply handled in PHP or Python
75     # (argparse, etc.).
76     # You'll need to start by improving cat first,
77     # with --files0-from handling.
78     # echo "hack cat '${!#}' | wc $args"
79     cat "${!#}" | wc "${ll_wc_var_args[@]}"
80 else
81     # echo "normal"
82     wc "${ll_wc_var_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     LFBFL_temp=".in_place_grep.temp"
101     grep $@ > "${!#}" "$LFBFL_temp"
102     LFBFL_lines_before=$(ll_wc -l -n "${!#}")
103     LFBFL_lines_after=$(ll_wc -l -n "${!#}" "$LFBFL_temp")
104     # echo "$LFBFL_lines_before"

```

```

105     # echo "$LFBFL_lines_after"
106     if [[ "$LFBFL_lines_before" == "$LFBFL_lines_after" ]]; then
107         rm "${!#}" "$LFBFL_temp"
108         return
109     fi
110     mv "${!#}" "$LFBFL_temp" "${!#}"
111 }
112
113 grep_variable() {
114     # $1=$file
115     # $2=$variable_name
116     LFBFL_regexp="(?!<^$2=).*$"
117     # echo $LFBFL_regexp
118     LFBFL_variable_value="$(grep -oP "$LFBFL_regexp" "$1")"
119     # echo $LFBFL_variable_value
120     declare -g "$2"="$LFBFL_variable_value"
121 }
122
123 empty_lines() {
124     grep '^$'
125 }
126
127 not_empty_lines() {
128     grep -v '^$'
129 }
130
131 space_starting_lines() {
132     grep '^[ ]'
133 }
134
135 not_space_starting_lines() {
136     grep '^[^ ]'
137 }
138
139 empty_lines_after_file_name() {
140     grep '^[^:]\+$'
141 }
142
143 not_empty_lines_after_file_name() {
144     grep -v '^[^:]\+$'
145 }
146
147 space_starting_lines_after_file_name() {
148     grep '^[^:]\+ '
149 }
150

```

```

151 not_space_starting_lines_after_file_name() {
152     grep '^[:]\+:[^ ]'
153 }
154
155 not_JS_dependencies_find() {
156     grep -vE "(^|/)node_modules/" | grep -vE "(^|/)package-lock\.json$"
157 }
158
159 not_JS_dependencies_grep() {
160     grep -v "^[^:]*node_modules/" | grep -v "^[^:]*package-lock\.json:"
161 }
162
163 not_dependencies_find() {
164     not_JS_dependencies_find
165 }
166
167 not_dependencies_grep() {
168     not_JS_dependencies_grep
169 }
170
171 not_python_cache_find() {
172     grep -vE "(^|/).__pycache__/" | grep -vE "(^|/)\.mypy_cache/"
173 }
174
175 not_python_cache_grep() {
176     grep -v "^[^:]*__pycache__/" | grep -v "^[^:]*\.mypy_cache/"
177 }
178
179 not_cache_find() {
180     not_python_cache_find
181 }
182
183 not_cache_grep() {
184     not_python_cache_grep
185 }
186
187 not_git_find() {
188     grep -vE "(^|/)\.git/"
189 }
190
191 not_git_grep() {
192     grep -v "^[^:]*\.git/"
193 }
194
195 not_archive_find() {
196     grep -vE "(\.gz|\.rar|\.tar|\.tgz|\.whl)$"

```

```

197 }
198
199 not_archive_grep() {
200     grep -vE "^[^:]*(\\.gz|\\.rar|\\.tar|\\.tgz|\\.whl):"
201 }
202
203 not_license_find() {
204     grep -vE "(^|/)COPYING$" | grep -vE "(^|/)COPYING\\.LESSER$"
205 }
206
207 not_license_grep() {
208     grep -v "^[^:]*COPYING:" | grep -v "^[^:]*COPYING\\.LESSER:"
209 }
210
211 not_main_tex_find() {
212     grep -vE "(^|/)$main_directory\\.tex$"
213 }
214
215 not_main_tex_grep() {
216     grep -v "^[^:]*$main_directory\\.tex:"
217 }
218
219 relevant_find() {
220     not_dependencies_find | not_cache_find | not_git_find\
221     | not_archive_find
222 }
223
224 relevant_grep() {
225     not_dependencies_grep | not_cache_grep | not_git_grep\
226     | not_archive_grep
227 }

```

2.28 build_and_checks_dependencies/overwrite_if_not_equal.sh

```

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```

```

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23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 overwrite_if_not_equal() {
26     # $1=$target_file_name
27     # $2=$temp_file_name
28     if [[ ! -f "$1" ]]; then
29         mv "$2" "$1"
30         return
31     fi
32     diff -q "$1" "$2"
33     overwrite_if_not_equal_var_is_equal=$?
34     if [[ $overwrite_if_not_equal_var_is_equal == 0 ]]; then
35         rm "$2"
36     else
37         mv "$2" "$1"
38     fi
39 }

```

2.29 build_and_checks_dependencies/python_black_complement.sh

```

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```

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

```

2.30 build_and_checks_dependencies/python_isort_complement.sh

```

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```

```

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     LFBFL_temp=".check_collections_abc_place.temp"
32     find . -name "*.py" | relevant_find\
33         | while read -r LFBFL_file_name; do
34         [ -f "$LFBFL_file_name" ] || continue
35         sed -Ez 's/\n(\nfrom _collections_abc[^\n]*)/\1\n/Mg'\
36             "$LFBFL_file_name" > "$LFBFL_file_name$LFBFL_temp"
37         overwrite_if_not_equal "$LFBFL_file_name"\
38             "$LFBFL_file_name$LFBFL_temp"
39     done
40 }
41
42 python_isort_complement(){
43     check_collections_abc_place
44 }

```

2.31 build_and_checks_dependencies/too_long_code_lines.sh

```

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```

```

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23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 too_long_code_lines(){
29     get_common_text_files_glob_patterns
30     for LFBFL_pattern in "${common_file_patterns[@]}"; do
31         [ "$1" != "-v" ] || echo "Iterating on pattern: $LFBFL_pattern"
32         find . -type f -name "$LFBFL_pattern" -printf '%P\n' \
33             | xargs grep -H '.\{71\}'
34     done
35 }

```

2.32 build_and_checks_dependencies/update_common_build_and_checks.sh

```

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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_beginnings.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 "grammar_and_spell_check.sh"\
36 "licenses_templates/build_licenses_templates.sh"\
37 "licenses_templates/license_file_header_GPLv3+.tpl"\
38 "licenses_templates/license_file_header_LGPLv3+.tpl"\
39 "lines_counts.sh"\
40 "lines_filters.sh"\
41 "overwrite_if_not_equal.sh"\
42 "python_black_complement.sh"\
43 "python_isort_complement.sh"\
44 "too_long_code_lines.sh"\
45 )
46
47 for file_name in "${file_names[@]}; do
48     file_sha512=$(sha512sum ".$file_name" | cut -f1 -d' ')
49     file_sha512_1="correct_sha512='${file_sha512:0:53}' "
50     file_sha512_2="correct_sha512\+='${file_sha512:53:52}' "
51     file_sha512_3="correct_sha512\+='${file_sha512:105}' "
52     file_sha512_all="$file_sha512_1\n"
53     file_sha512_all+="$file_sha512_2\n"
54     file_sha512_all+="$file_sha512_3"
55     base_file_name=$(basename "$file_name")
56     sed -i "s|@sha512_$base_file_name@|$file_sha512_all|g"\
57         ./common_build_and_checks.sh
58 done
59
60 cp ./build_and_checks.sh.tpl ../build_and_checks.sh
61
62 file_sha512=$(sha512sum common_build_and_checks.sh | cut -f1 -d' ')
63 file_sha512_1="correct_sha512='${file_sha512:0:53}' "
64 file_sha512_2="correct_sha512\+='${file_sha512:53:52}' "
65 file_sha512_3="correct_sha512\+='${file_sha512:105}' "
66 file_sha512_all="$file_sha512_1\n"
67 file_sha512_all+="$file_sha512_2\n"
68 file_sha512_all+="$file_sha512_3"
69 sed -i "s|@sha512_common_build_and_checks.sh@|$file_sha512_all|g"\
70     ../build_and_checks.sh

```

2.33 build_and_checks.sh

```
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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="$URL_beginning/common_build_and_checks.sh"
35 correct_sha512='69aff78795d84048543e59740c0e0d5c714899dc8c6b42e33164c'
36 correct_sha512+='197c3858a28295f21a0230a85aef97a383790fe5a5a465194934'
37 correct_sha512+='7127fe53e6e63c6b73fa65a'
38 wget_sha512 "$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"

```

2.34 git_checks.sh

```

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24
25 check_files() {
26     check_files_var_send_summary_1="ATTENTION : models modifiés"
27     check_files_var_send_body_1="Vérifiez si besoin de migrations"
28     check_files_var_send_body_2=\
29 "Pensez aussi aux contraintes d'unicités"
30     check_files_var_send_body_2+=" dès la création du modèle"
31     check_files_var_send_summary_2="ATTENTION : serializers modifiés"
32     check_files_var_send_body_3=\
33 "Les nouveaux preloadings sont interdits -> #Prefetch()"
34     if git diff --cached --name-only | grep models;
35     then
36         notify-send "$check_files_var_send_summary_1"\
37             "$check_files_var_send_body_1"
38         notify-send "$check_files_var_send_summary_1"\
39             "$check_files_var_send_body_2"

```

```

40     fi
41     if git diff --cached --name-only | grep serializer;
42     then
43         notify-send "$check_files_var_send_summary_2"\
44             "$check_files_var_send_body_3"
45     fi
46     return 0
47 }
48
49
50 check_no_abusive_trailing_comma(){
51     LFBFL_send_summary_1="ATTENTION"
52     LFBFL_send_body_1="Il semblerait que vous affectiez un tuple"
53     LFBFL_send_body_1+=" au lieu d'une autre valeur dans une variable."
54     if git diff --cached -r | grep ' = .*,\s*$';
55     then
56         notify-send "$LFBFL_send_summary_1" "$LFBFL_send_body_1"
57         return 1
58     fi
59     return 0
60 }
61
62
63 check_black_code_formatting(){
64     # attention ça ne marche que sur les fichiers "stagés" avec git add
65     LFBFL_files_string=$( \
66         git diff --cached --name-only | grep '\.py'\
67     )
68     echo "$LFBFL_files_string"
69     mapfile -t LFBFL_some_files <<< "$LFBFL_files_string"
70     LFBFL_error=0
71     for LFBFL_file in ${LFBFL_some_files[@]}; do
72         echo "Black will check formatting on file $LFBFL_file"
73         if ! black --check --diff "$LFBFL_file";
74         then
75             LFBFL_error=1
76         fi
77     done
78     if [ $LFBFL_error -eq '1' ];
79     then
80         return 1
81     fi
82     return 0
83 }

```

2.35 build_and_checks_dependencies/grammar_and_spell_check.sh

```
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24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27 source "$subdir/lines_filters.sh"
28
29 grammar_and_spell_check() {
30     get_common_text_files_glob_patterns
31     grep_variable "$1" grammar_or_spell_checker_command
32     LFBFL_command=$( \
33         echo "$grammar_or_spell_checker_command" \
34         | sed -Ez -e "s/\n//Mg" \
35     )
36     for LFBFL_pattern in "${common_file_patterns[@]}; do
37         [ "$2" != "-v" ] || echo "Iterating on pattern: $LFBFL_pattern"
38         find . -type f -name "$LFBFL_pattern" -printf '%P\n' \
39             | while read -r file_name;
40         do
41             LFBFL_eval_string="$LFBFL_command $file_name"
42             eval "$LFBFL_eval_string"
43         done
44     done
```

45 }

2.36 latex/DevOrSysAdminScripts.tex.tpl

```
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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/%
125     check\_shell\_scripts\_beginnings.sh
126 }
127 \label{
128     build_and_checks_dependencies:check_shell_scripts_beginningssh
129 }
130
131 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
132     build_and_checks_dependencies/check_shell_scripts_beginnings.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/comparisons.sh
174 }
175 \label{
176     build_and_checks_dependencies:comparisonssh
177 }
178
179 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
180     build_and_checks_dependencies/comparisons.sh

```

```

181 }
182
183
184 \subsection{
185     build\_and\_checks\_dependencies/create\_PDF.sh
186 }
187 \label{
188     build_and_checks_dependencies:create_PDFsh
189 }
190
191 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
192     build_and_checks_dependencies/create_PDF.sh
193 }
194
195
196 \subsection{
197     build\_and\_checks\_dependencies/generate\_from\_template.sh
198 }
199 \label{
200     build_and_checks_dependencies:generate_from_templatessh
201 }
202
203 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
204     build_and_checks_dependencies/generate_from_template.sh
205 }
206
207
208 \subsection{
209     build\_and\_checks\_dependencies/get\_common\_text\_glob\_patterns%
210     .sh
211 }
212 \label{
213     build_and_checks_dependencies:get_common_text_glob_patternsssh
214 }
215
216 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
217     build_and_checks_dependencies/get_common_text_glob_patterns.sh
218 }
219
220
221 \subsection{
222     build\_and\_checks\_dependencies/licenses\_templates/%
223     build\_licenses\_templates.sh
224 }
225 \label{
226     build_and_checks_dependencies:licenses_templates:%

```

```

227 build_licenses_templates.sh
228 }
229
230 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
231     build_and_checks_dependencies/licenses_templates/%
232 build_licenses_templates.sh
233 }
234
235
236 \subsection{
237     build\_and\_checks\_dependencies/licenses\_templates/%
238 license\_file\_header\_GPLv3+.c.tpl
239 }
240 \label{
241     build_and_checks_dependencies:licenses_templates:%
242 license_file_header_GPLv3+ctpl
243 }
244
245 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
246     build_and_checks_dependencies/licenses_templates/%
247 license_file_header_GPLv3+.c.tpl
248 }
249
250
251 \subsection{
252     build\_and\_checks\_dependencies/licenses\_templates/%
253 license\_file\_header\_GPLv3+.py.tpl
254 }
255 \label{
256     build_and_checks_dependencies:licenses_templates:%
257 license_file_header_GPLv3+pytpl
258 }
259
260 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
261     build_and_checks_dependencies/licenses_templates/%
262 license_file_header_GPLv3+.py.tpl
263 }
264
265
266 \subsection{
267     build\_and\_checks\_dependencies/licenses\_templates/%
268 license\_file\_header\_GPLv3+.sh.tpl
269 }
270 \label{
271     build_and_checks_dependencies:licenses_templates:%
272 license_file_header_GPLv3+shtpl

```

```

273 }
274
275 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
276     build_and_checks_dependencies/licenses_templates/%
277     license_file_header_GPLv3+.sh.tpl
278 }
279
280
281 \subsection{
282     build\_and\_checks\_dependencies/licenses\_templates/%
283     license\_file\_header\_GPLv3+.tex.tpl
284 }
285 \label{
286     build_and_checks_dependencies:licenses_templates:%
287     license_file_header_GPLv3+textpl
288 }
289
290 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
291     build_and_checks_dependencies/licenses_templates/%
292     license_file_header_GPLv3+.tex.tpl
293 }
294
295
296 \subsection{
297     build\_and\_checks\_dependencies/licenses\_templates/%
298     license\_file\_header\_GPLv3+.tpl
299 }
300 \label{
301     build_and_checks_dependencies:licenses_templates:%
302     license_file_header_GPLv3+tpl
303 }
304
305 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
306     build_and_checks_dependencies/licenses_templates/%
307     license_file_header_GPLv3+.tpl
308 }
309
310
311 \subsection{
312     build\_and\_checks\_dependencies/licenses\_templates/%
313     license\_file\_header\_LGPLv3+.c
314 }
315 \label{
316     build_and_checks_dependencies:licenses_templates:%
317     license_file_header_LGPLv3+c
318 }

```

```

319
320 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
321     build_and_checks_dependencies/licenses_templates/%
322     license_file_header_LGPLv3+.c
323 }
324
325
326 \subsection{
327     build\_and\_checks\_dependencies/licenses\_templates/%
328     license\_file\_header\_LGPLv3+.c.tpl
329 }
330 \label{
331     build_and_checks_dependencies:licenses_templates:%
332     license_file_header_LGPLv3+ctpl
333 }
334
335 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
336     build_and_checks_dependencies/licenses_templates/%
337     license_file_header_LGPLv3+.c.tpl
338 }
339
340
341 \subsection{
342     build\_and\_checks\_dependencies/licenses\_templates/%
343     license\_file\_header\_LGPLv3+.py
344 }
345 \label{
346     build_and_checks_dependencies:licenses_templates:%
347     license_file_header_LGPLv3+py
348 }
349
350 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
351     build_and_checks_dependencies/licenses_templates/%
352     license_file_header_LGPLv3+.py
353 }
354
355
356 \subsection{
357     build\_and\_checks\_dependencies/licenses\_templates/%
358     license\_file\_header\_LGPLv3+.py.tpl
359 }
360 \label{
361     build_and_checks_dependencies:licenses_templates:%
362     license_file_header_LGPLv3+pytpl
363 }
364

```

```

365 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
366     build_and_checks_dependencies/licenses_templates/%
367     license_file_header_LGPLv3+.py.tpl
368 }
369
370
371 \subsection{
372     build\_and\_checks\_dependencies/licenses\_templates/%
373     license\_file\_header\_LGPLv3+.sh
374 }
375 \label{
376     build_and_checks_dependencies:licenses_templates:%
377     license_file_header_LGPLv3+sh
378 }
379
380 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
381     build_and_checks_dependencies/licenses_templates/%
382     license_file_header_LGPLv3+.sh
383 }
384
385
386 \subsection{
387     build\_and\_checks\_dependencies/licenses\_templates/%
388     license\_file\_header\_LGPLv3+.sh.tpl
389 }
390 \label{
391     build_and_checks_dependencies:licenses_templates:%
392     license_file_header_LGPLv3+shtpl
393 }
394
395 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
396     build_and_checks_dependencies/licenses_templates/%
397     license_file_header_LGPLv3+.sh.tpl
398 }
399
400
401 \subsection{
402     build\_and\_checks\_dependencies/licenses\_templates/%
403     license\_file\_header\_LGPLv3+.tex
404 }
405 \label{
406     build_and_checks_dependencies:licenses_templates:%
407     license_file_header_LGPLv3+tex
408 }
409
410 \VerbatimInput[numbers=left,xleftmargin=-5mm]{

```

```

411     build_and_checks_dependencies/licenses_templates/%
412     license_file_header_LGPLv3+.tex
413 }
414
415
416 \subsection{
417     build\_and\_checks\_dependencies/licenses\_templates/%
418     license\_file\_header\_LGPLv3+.tex.tpl
419 }
420 \label{
421     build_and_checks_dependencies:licenses_templates:%
422     license_file_header_LGPLv3+textpl
423 }
424
425 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
426     build_and_checks_dependencies/licenses_templates/%
427     license_file_header_LGPLv3+.tex.tpl
428 }
429
430
431 \subsection{
432     build\_and\_checks\_dependencies/licenses\_templates/%
433     license\_file\_header\_LGPLv3+.tpl
434 }
435 \label{
436     build_and_checks_dependencies:licenses_templates:%
437     license_file_header_LGPLv3+tpl
438 }
439
440 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
441     build_and_checks_dependencies/licenses_templates/%
442     license_file_header_LGPLv3+.tpl
443 }
444
445
446 \subsection{
447     build\_and\_checks\_dependencies/lines\_counts.sh
448 }
449 \label{
450     build_and_checks_dependencies:lines_countssh
451 }
452
453 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
454     build_and_checks_dependencies/lines_counts.sh
455 }
456

```

```

457
458 \subsection{
459     build\_and\_checks\_dependencies/lines\_filters.sh
460 }
461 \label{
462     build_and_checks_dependencies:lines_filterssh
463 }
464
465 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
466     build_and_checks_dependencies/lines_filters.sh
467 }
468
469
470 \subsection{
471     build\_and\_checks\_dependencies/overwrite\_if\_not\_equal.sh
472 }
473 \label{
474     build_and_checks_dependencies:overwrite_if_not_equalsh
475 }
476
477 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
478     build_and_checks_dependencies/overwrite_if_not_equal.sh
479 }
480
481
482 \subsection{
483     build\_and\_checks\_dependencies/python\_black\_complement.sh
484 }
485 \label{
486     build_and_checks_dependencies:python_black_complementsh
487 }
488
489 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
490     build_and_checks_dependencies/python_black_complement.sh
491 }
492
493
494 \subsection{
495     build\_and\_checks\_dependencies/python\_isort\_complement.sh
496 }
497 \label{
498     build_and_checks_dependencies:python_isort_complementsh
499 }
500
501 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
502     build_and_checks_dependencies/python_isort_complement.sh

```



```

503 }
504
505
506 \subsection{
507     build\_and\_checks\_dependencies/too\_long\_code\_lines.sh
508 }
509 \label{
510     build_and_checks_dependencies:too_long_code_linessh
511 }
512
513 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
514     build_and_checks_dependencies/too_long_code_lines.sh
515 }
516
517
518 \subsection{
519     build\_and\_checks\_dependencies/update\_common\_build\_and\_checks%
520     .sh
521 }
522 \label{
523     build_and_checks_dependencies:update_common_build_and_checks%
524     sh
525 }
526 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
527     build_and_checks_dependencies/update_common_build_and_checks.sh
528 }
529
530
531 \subsection{
532     build\_and\_checks.sh
533 }
534 \label{
535     build_and_checks%
536     sh
537 }
538 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
539     build_and_checks.sh
540 }
541
542
543 \subsection{
544     git\_checks.sh
545 }
546 \label{
547     git_checks%
548     sh

```

```

549
550 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
551     git_checks.sh
552 }
553
554
555 \subsection{
556     build\_and\_checks\_dependencies/grammar\_and\_spell\_check.sh
557 }
558 \label{
559     build_and_checks_dependencies:grammar_and_spell_checksh
560 }
561
562 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
563     build_and_checks_dependencies/grammar_and_spell_check.sh
564 }
565
566
567 \subsection{
568     latex/DevOrSysAdminScripts.tex.tpl
569 }
570 \label{
571     latex:DevOrSysAdminScriptstextpl
572 }
573
574 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
575     latex/DevOrSysAdminScripts.tex.tpl
576 }
577
578
579 \subsection{
580     LiensUtiles.txt
581 }
582 \label{
583     LiensUtilestxt
584 }
585
586 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
587     LiensUtiles.txt
588 }
589
590
591 \subsection{
592     pre-commit
593 }
594 \label{

```

```

595     pre-commit
596 }
597
598 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
599     pre-commit
600 }
601
602
603 \subsection{
604     README.md.tpl
605 }
606 \label{
607     READMEmdtpl
608 }
609
610 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
611     README.md.tpl
612 }
613
614
615 \subsection{
616     repository\_data.txt
617 }
618 \label{
619     repository_datatxt
620 }
621
622 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
623     repository_data.txt
624 }
625
626
627 \subsection{
628     wget\_sha512.sh
629 }
630 \label{
631     wget_sha512sh
632 }
633
634 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
635     wget_sha512.sh
636 }
637
638
639 Merci Dieu ! Merci P\`ere ! Merci Seigneur ! Merci Saint Esprit !
640

```

641 \end{document}

2.37 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
```

2.38 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

```

2.39 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/lllyaudet/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/lllyaudet/DevOrSysAdminScripts

```

2.40 repository_data.txt

```

1 repository_name=DevOrSysAdminScripts
2 repository_web_url=https://github.com/LLyaudet/DevOrSysAdminScripts/
3 repository_git_url=git@github.com:LLyaudet/DevOrSysAdminScripts.git
4 abstract=Some \small" useful scripts
5 abstract=for enhancing development or system-administrators tasks
6 license=LGPLv3+
7 author_email=Laurent.Lyaudet@gmail.com
8 author_full_name=Laurent Frédéric Bernard François Lyaudet
9 author_last_name=Lyaudet
10 author_name=Laurent Lyaudet
11 author_website=https://lyaudet.eu/laurent/
12 acknowledgments=Merci Dieu !
13 acknowledgments=Merci Père ! Merci Seigneur ! Merci Saint Esprit !
14 grammar_or_spell_checker_command=more

```

2.41 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 file_name
27     # $2 download_URL
28     # $3 correct_sha512
29     if [[ ! -f "$1" ]];
30     then
31         wget -O "$1" "$2"
32     fi
33     wget_sha512_var_present_sha512=$(sha512sum "$1" | cut -f1 -d' ')
34     if [[ "$wget_sha512_var_present_sha512" != "$3" ]];
35     then
36         echo "$1 does not have correct sha512"
37         echo "wanted $3"
38         echo "found $wget_sha512_var_present_sha512"
39         exit
40     fi
41 }

```

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