

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: 75

Current git SHA1: 33fadd808d21925ae74e65daeb0897b57ca2ea31

Code lines: 3309 total lines, 2932 not empty lines, 377 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 04:02] ./
|— [4.0K May 16 03:59] build_and_checks_dependencies/
|   |— [1.4K May 16 03:01] build_and_checks.sh.tpl*
|   |— [1.7K May 16 03:58] 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 03:59] common_build_and_checks.sh*
|   |— [5.1K May 16 03:37] 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 04:02] licenses_templates/
|       |— [4.9K May 16 03:44] 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 16 03:40] 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 03:59] 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
— [141K May 16 03:59] DevOrSysAdminScripts.pdf
— [2.2K May 16 02:44] git_checks.sh
— [4.0K May 16 04:02] latex/
— [ 13K May 16 04:02] DevOrSysAdminScripts.tex
— [ 13K May 16 03:33] DevOrSysAdminScripts.tex.tpl
— [ 424 May  6 00:49] LiensUtiles.txt
— [1.1K May 16 02:44] pre-commit
— [1.6K May 16 03:53] 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 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     filename="$2"
41 else
```

```

42     filename="README"
43 fi
44
45 if [[ -f "${filename}.md.tpl" ]];
46 then
47     sed -Ez "$sed_expression" "${filename}.md.tpl"\
48     > "${filename}_temp1.md"
49     sed -Ez "$sed_expression" "${filename}_temp1.md"\
50     > "${filename}_temp2.md"
51     sed -Ez "$sed_expression" "${filename}_temp2.md"\
52     > "${filename}_temp3.md"
53     sed -Ez "$sed_expression" "${filename}_temp3.md"\
54     > "${filename}_temp4.md"
55     overwrite_if_not_equal "${filename}.md" "${filename}_temp4.md"
56     rm "${filename}_temp1.md" "${filename}_temp2.md"\
57     "${filename}_temp3.md"
58 else
59     echo "No file ${filename}.md.tpl"
60 fi
61
62 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:
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7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
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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 subdirs="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="$URL_beginning/build_md_from_printable_md.sh"
34 correct_sha512='f443133905731f4d5f8b844b10fdb4eb909ef8127cc11009c8c5e'
35 correct_sha512+='9dc3e42754f244f3ef829d22d562abdfefbb75acc692c3b21874'
36 correct_sha512+='eb421a375d6a9049406494b'
37 wget_sha512 "$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+='8fc750d43da63bd25e3ee27f7blacd4da355d6e8ea133cea75f7'
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="$URL_beginning2/build_license_templates.sh"
84 correct_sha512=' 021d3ccc3301c3c8754854ae338b0f828d419ccddfc218320cca3'
85 correct_sha512+=' 7f9118bd9c2871f5b6263448188575f53107e4503d2cbab55a00'
86 correct_sha512+=' f5543d832138cac22cf3747'
87 wget_sha512 "$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+=' 98ca86cdd844c6ac150c3445c80debbb3fc2574b5fceeef79ec'
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+='b6447b26abafbdbc850f69946913b5b2c423b265c9066a2b4655'
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="$1"
162  fi
163
164  echo "Building license headers"
165  ./${subdir2}/build_license_templates.sh "$cwd"
166
167  echo "Building README.md"
168  ./${subdir}/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
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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
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="$1"
130 fi
131
132 echo "Building license headers"
133 "$subdir2/build_license_templates.sh" "$cwd"
134
135 echo "Building README.md"
136 "$subdir/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/comparisons.sh

```

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



```

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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 $? si toutes les chaînes en arguments sont égales.
28     # J'ai rerepensé au 3-way-merge
29     # et à mon article sur le principe de première différence
30     # appliqué à la largeur modulaire, de clique ou de rang avec
31     # l'idée d'un principe de première différence ternaire.
32     all_args=""$*""
33     current="$all_args"
34     for arg in $@; do
35         if [[ "$current" == "$all_args" ]]; then
36             current="$arg"
37             continue
38         fi
39         if [[ "$current" != "$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     # $1=$filename
88     # $2=$subfilename
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.
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```

```

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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     "./latex/$main_directory.tex"
56
57 tree -a --gitignore\
58     -I "$main_directory.aux"\
59     -I "$main_directory.log"\
60     -I "$main_directory.out"\
61     -I "$main_directory.tex.tpl2"\
62     -I current_tree.txt\
63     -I current_tree_light.txt\
64     -I "node_modules/"\
65     -I "__pycache__/"\
66     -I ".mypy_cache/"\
67     -I ".git/"\
68     > current_tree_light.txt
69
70 tree -a -DFh --gitignore\
71     -I "$main_directory.aux"\
72     -I "$main_directory.log"\
73     -I "$main_directory.out"\
74     -I "$main_directory.tex.tpl2"\
75     -I current_tree.txt\
76     -I current_tree_light.txt\
77     -I "node_modules/"\
78     -I "__pycache__/"\
79     -I ".mypy_cache/"\
80     -I ".git/"\
81     > current_tree.txt
82
83 shopt -s dotglob
84 find . -type f -printf '%P\n' | relevant_find | sort\
85     | while read -r filename;
86 do
87     git check-ignore -q "$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     #   ${filename/./\./g}\\hyperref\${${filename/./\./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

```

2.9 build_and_checks_dependencies/generate_from_template.sh

```

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```

```

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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     echo "$3" > "$2.temp"
31     cat "$1" >> "$2.temp"
32     echo "$4" >> "$2.temp"
33     overwrite_if_not_equal "$2" "$2.temp"
34 }
35
36 generate_from_template_with_line_comments() {
37     # $1=base_file_name
38     # $2=target_file_name
39     # $3=line_comment_prefix
40     # $4=optional_post_processing
41     sed -e "s/^/$3/g" "$1" > "$2.temp"
42     if [[ -n "$4" ]]; then
43         eval "$4"
44     fi
45     overwrite_if_not_equal "$2" "$2.temp"
46 }

```

2.10 build_and_checks_dependencies/get_common_text_glob_patterns.sh

```

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```



```

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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_license_templates.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 #
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 "$subdir/comparisons.sh"
27 source "$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=${block_comment_languages[i]}
84         license_filename="$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             "$license_filename.tpl"\
90             "$enter_string" "$exit_string"
91     done
92     for ((i=0; i<${#line_comment_languages[@]}; i++)); do
93         extension=${line_comment_languages[i]}
94         license_filename="$license_prefix2.$extension"
95         prefix_string=${line_comment_prefixes[i]}
96         generate_from_template_with_line_comments\
97             "$license_prefix2.tpl"\
98             "$license_filename.tpl"\
99             "$prefix_string"
100         "sed -i -E -e 's/\s*$/g' '$license_filename.tpl.temp'"
101     done
102 done
103 # -----
104
105 file_name=repository_data.txt
106 grep_variable "$file_name" repository_name
107 grep_variable "$file_name" license
108 grep_variable "$file_name" full_name
109 license_prefix2="$license_prefix$license"
110 # First year according to current state of git repository.
111 first_year="$(git log | grep 'Date:' | cut -f 8 -d ' ' | tail -1)"
112 # Last year according to current state of git repository.
113 last_year="$(git log | grep 'Date:' | cut -f 8 -d ' ' | head -1)"
114 copyright_string="$first_year-$last_year $full_name"
115 for ((i=0; i<${#block_comment_languages[@]}; i++)); do
116     extension=${block_comment_languages[i]}
117     license_filename="$license_prefix2.$extension"

```

```

118 sed -e "s/@repository_name@/$repository_name/g"\
119     -e "s/@copyright_string@/$copyright_string/g"\
120     "$license_filename.tpl" > "$license_filename.temp"
121 overwrite_if_not_equal "$license_filename" "$license_filename.temp"
122 cat "$license_filename" | head --lines=-1 | tail --lines=-1\
123     > "$license_filename.temp"
124 find . -type f -name ".*$extension" -printf '%P\n' | relevant_find\
125     | while read -r filename;
126 do
127
128     if is_subfile "$filename" "$license_filename.temp"
129     then
130         echo "File $filename has no/wrong license header?"
131     fi
132 done
133 rm "$license_filename.temp"
134 done
135 for ((i=0; i<${#line_comment_languages[@]}; i++)); do
136     extension=${line_comment_languages[i]}
137     license_filename="$license_prefix2.$extension"
138     sed -e "s/@repository_name@/$repository_name/g"\
139         -e "s/@copyright_string@/$copyright_string/g"\
140         "$license_filename.tpl" > "$license_filename.temp"
141     overwrite_if_not_equal "$license_filename" "$license_filename.temp"
142     find . -type f -name ".*$extension" -printf '%P\n' | relevant_find\
143         | while read -r filename;
144     do
145
146         if is_subfile "$filename" "$license_filename"
147         then
148             echo "File $filename has no/wrong license header?"
149         fi
150     done
151 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;
14 without even the implied warranty of
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

```

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
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 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 """

```

2.14 build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.sh.tpl

```
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2 #
3 # @repository_name@ is free software:
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16 #
17 # You should have received a copy of
18 # the GNU General Public License
19 # along with @repository_name@.
20 # If not, see <https://www.gnu.org/licenses/>.
21 #
22 # Copyright @copyright_string@
```

2.15 build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.tex.tpl

```
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2 %
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5 % of the GNU General Public License
6 % as published by the Free Software Foundation,
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8 % or (at your option) any later version.
9 %
10 % @repository_name@ is distributed in the hope
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12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU General Public License for more details.
16 %
17 % You should have received a copy of
18 % the GNU General Public License
19 % along with @repository_name@.
```

```

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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19 along with @repository_name@.
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22 Copyright @copyright_string@

```

2.17 build_and_checks_dependencies/licenses.templates/license_file_header LGPLv3+.c

```

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```



```

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17
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21 If not, see <https://www.gnu.org/licenses/>.
22
23 ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24 */

```

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

```

1  /*
2  This file is part of @repository_name@ library.
3
4  @repository_name@ is free software:
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9  or (at your option) any later version.
10
11 @repository_name@ is distributed in the hope
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14 without even the implied warranty of
15 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
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17
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21 If not, see <https://www.gnu.org/licenses/>.
22
23 ©Copyright @copyright_string@
24 */

```

2.19 build_and_checks_dependencies/licenses_templates/license_file_header LGPLv3+.py

```

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```

```

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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  """

```

2.20 build_and_checks_dependencies/licenses_templates/license_file_header LGPLv3+.py.tpl

```

1  """
2  This file is part of @repository_name@ library.
3
4  @repository_name@ is free software:
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7  as published by the Free Software Foundation,
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9  or (at your option) any later version.
10
11  @repository_name@ is distributed in the hope
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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 @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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2 #
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22 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
```

2.22 build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.sh.tpl

```
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9 #
10 # @repository_name@ is distributed in the hope
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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
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```

```

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21 #
22 # @Copyright @copyright_string@

```

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

```

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```

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

```

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```

```

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22 % ©Copyright @copyright_string@

```

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 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 }

```

2.27 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:
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6  # of the GNU Lesser General Public License
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9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
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15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
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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 # 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 }

```

2.28 build_and_checks_dependencies/overwrite_if_not_equal.sh

```

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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" "$2"
33     is_equal=$?
34     if [[ $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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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

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

```

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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 }

```

2.31 build_and_checks_dependencies/too_long_code_lines.sh

```

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24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 too_long_code_lines(){
29     get_common_text_files_glob_patterns
30     for pattern in "${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 }

```

2.32 build_and_checks_dependencies/update_common_build_and_checks.sh

```

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```

```

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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_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

```

2.33 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="$URL_beginning/common_build_and_checks.sh"
35 correct_sha512='5580d960608efca6546c632c2ad9c4b851d8bb85477371ff28e8e'
36 correct_sha512+='3e9cdf4fc5deea648ae8d8b5862c58528146dd17ed5923edb4b1'
37 correct_sha512+='743189d6d4529831e155959'
38 wget_sha512 "$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

```

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

```

2.35 latex/DevOrSysAdminScripts.tex.tpl

```

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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{pmboxdraw}
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_checksstpl
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/comparisons.sh
173 }
174 \label{
175     build_and_checks_dependencies:comparisonssh
176 }
177
178 \VerbatimInput[numbers=left,xleftmargin=-5mm]{

```

```

179     build_and_checks_dependencies/comparisons.sh
180 }
181
182
183 \subsection{
184     build\_and\_checks\_dependencies/create\_PDF.sh
185 }
186 \label{
187     build_and_checks_dependencies:create_PDFsh
188 }
189
190 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
191     build_and_checks_dependencies/create_PDF.sh
192 }
193
194
195 \subsection{
196     build\_and\_checks\_dependencies/generate\_from\_template.sh
197 }
198 \label{
199     build_and_checks_dependencies:generate_from_templates
200 }
201
202 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
203     build_and_checks_dependencies/generate_from_template.sh
204 }
205
206
207 \subsection{
208     build\_and\_checks\_dependencies/get\_common\_text\_glob\_patterns%
209     .sh
210 }
211 \label{
212     build_and_checks_dependencies:get_common_text_glob_patterns
213 }
214
215 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
216     build_and_checks_dependencies/get_common_text_glob_patterns.sh
217 }
218
219
220 \subsection{
221     build\_and\_checks\_dependencies/licenses\_templates/%
222     build\_license\_templates.sh
223 }
224 \label{

```



```

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

```

```

271 license_file_header_GPLv3+shtpl
272 }
273
274 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
275     build_and_checks_dependencies/licenses_templates/%
276     license_file_header_GPLv3+.sh.tpl
277 }
278
279
280 \subsection{
281     build\_and\_checks\_dependencies/licenses\_templates/%
282     license\_file\_header\_GPLv3+.tex.tpl
283 }
284 \label{
285     build_and_checks_dependencies:licenses_templates:%
286     license_file_header_GPLv3+textpl
287 }
288
289 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
290     build_and_checks_dependencies/licenses_templates/%
291     license_file_header_GPLv3+.tex.tpl
292 }
293
294
295 \subsection{
296     build\_and\_checks\_dependencies/licenses\_templates/%
297     license\_file\_header\_GPLv3+.tpl
298 }
299 \label{
300     build_and_checks_dependencies:licenses_templates:%
301     license_file_header_GPLv3+tpl
302 }
303
304 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
305     build_and_checks_dependencies/licenses_templates/%
306     license_file_header_GPLv3+.tpl
307 }
308
309
310 \subsection{
311     build\_and\_checks\_dependencies/licenses\_templates/%
312     license\_file\_header\_LGPLv3+.c
313 }
314 \label{
315     build_and_checks_dependencies:licenses_templates:%
316     license_file_header_LGPLv3+c

```

```

317 }
318
319 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
320     build_and_checks_dependencies/licenses_templates/%
321     license_file_header_LGPLv3+.c
322 }
323
324
325 \subsection{
326     build\_and\_checks\_dependencies/licenses\_templates/%
327     license\_file\_header\_LGPLv3+.c.tpl
328 }
329 \label{
330     build_and_checks_dependencies:licenses_templates:%
331     license_file_header_LGPLv3+ctpl
332 }
333
334 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
335     build_and_checks_dependencies/licenses_templates/%
336     license_file_header_LGPLv3+.c.tpl
337 }
338
339
340 \subsection{
341     build\_and\_checks\_dependencies/licenses\_templates/%
342     license\_file\_header\_LGPLv3+.py
343 }
344 \label{
345     build_and_checks_dependencies:licenses_templates:%
346     license_file_header_LGPLv3+py
347 }
348
349 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
350     build_and_checks_dependencies/licenses_templates/%
351     license_file_header_LGPLv3+.py
352 }
353
354
355 \subsection{
356     build\_and\_checks\_dependencies/licenses\_templates/%
357     license\_file\_header\_LGPLv3+.py.tpl
358 }
359 \label{
360     build_and_checks_dependencies:licenses_templates:%
361     license_file_header_LGPLv3+pytpl
362 }

```

```

363
364 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
365     build_and_checks_dependencies/licenses_templates/%
366     license_file_header_LGPLv3+.py.tpl
367 }
368
369
370 \subsection{
371     build\_and\_checks\_dependencies/licenses\_templates/%
372     license\_file\_header\_LGPLv3+.sh
373 }
374 \label{
375     build_and_checks_dependencies:licenses_templates:%
376     license_file_header_LGPLv3+sh
377 }
378
379 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
380     build_and_checks_dependencies/licenses_templates/%
381     license_file_header_LGPLv3+.sh
382 }
383
384
385 \subsection{
386     build\_and\_checks\_dependencies/licenses\_templates/%
387     license\_file\_header\_LGPLv3+.sh.tpl
388 }
389 \label{
390     build_and_checks_dependencies:licenses_templates:%
391     license_file_header_LGPLv3+shtpl
392 }
393
394 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
395     build_and_checks_dependencies/licenses_templates/%
396     license_file_header_LGPLv3+.sh.tpl
397 }
398
399
400 \subsection{
401     build\_and\_checks\_dependencies/licenses\_templates/%
402     license\_file\_header\_LGPLv3+.tex
403 }
404 \label{
405     build_and_checks_dependencies:licenses_templates:%
406     license_file_header_LGPLv3+tex
407 }
408

```

```

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

```

```

455
456
457 \subsection{
458     build\_and\_checks\_dependencies/lines\_filters.sh
459 }
460 \label{
461     build_and_checks_dependencies:lines_filterssh
462 }
463
464 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
465     build_and_checks_dependencies/lines_filters.sh
466 }
467
468
469 \subsection{
470     build\_and\_checks\_dependencies/overwrite\_if\_not\_equal.sh
471 }
472 \label{
473     build_and_checks_dependencies:overwrite_if_not_equalsh
474 }
475
476 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
477     build_and_checks_dependencies/overwrite_if_not_equal.sh
478 }
479
480
481 \subsection{
482     build\_and\_checks\_dependencies/python\_black\_complement.sh
483 }
484 \label{
485     build_and_checks_dependencies:python_black_complementsh
486 }
487
488 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
489     build_and_checks_dependencies/python_black_complement.sh
490 }
491
492
493 \subsection{
494     build\_and\_checks\_dependencies/python\_isort\_complement.sh
495 }
496 \label{
497     build_and_checks_dependencies:python_isort_complementsh
498 }
499
500 \VerbatimInput[numbers=left,xleftmargin=-5mm]{

```

```

501     build_and_checks_dependencies/python_isort_complement.sh
502 }
503
504
505 \subsection{
506     build\_and\_checks\_dependencies/too\_long\_code\_lines.sh
507 }
508 \label{
509     build_and_checks_dependencies:too_long_code_linesssh
510 }
511
512 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
513     build_and_checks_dependencies/too_long_code_lines.sh
514 }
515
516
517 \subsection{
518     build\_and\_checks\_dependencies/update\_common\_build\_and\_checks%
519     .sh
520 }
521 \label{
522     build_and_checks_dependencies:update_common_build_and_checksssh
523 }
524
525 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
526     build_and_checks_dependencies/update_common_build_and_checks.sh
527 }
528
529
530 \subsection{
531     build\_and\_checks.sh
532 }
533 \label{
534     build_and_checksssh
535 }
536
537 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
538     build_and_checks.sh
539 }
540
541
542 \subsection{
543     git\_checks.sh
544 }
545 \label{
546     git_checkssh

```

```

547 }
548
549 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
550     git_checks.sh
551 }
552
553
554 \subsection{
555     latex/DevOrSysAdminScripts.tex.tpl
556 }
557 \label{
558     latex:DevOrSysAdminScriptstextpl
559 }
560
561 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
562     latex/DevOrSysAdminScripts.tex.tpl
563 }
564
565
566 \subsection{
567     LiensUtiles.txt
568 }
569 \label{
570     LiensUtilestxt
571 }
572
573 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
574     LiensUtiles.txt
575 }
576
577
578 \subsection{
579     pre-commit
580 }
581 \label{
582     pre-commit
583 }
584
585 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
586     pre-commit
587 }
588
589
590 \subsection{
591     README.md.tpl
592 }

```



```

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

```

2.36 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

2.37 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

```

2.38 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
```

2.39 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 name=Laurent Lyaudet
8 full_name=Laurent Frédéric Bernard François Lyaudet
9 email=Laurent.Lyaudet@gmail.com
10 website=https://lyaudet.eu/laurent/
11 acknowledgments=Merci Dieu !
12 acknowledgments=Merci Père ! Merci Seigneur ! Merci Saint Esprit !
```

2.40 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 !