

DevOrSysAdminScripts

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Abstract

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

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Code lines: 6877 total lines, 6198 not empty lines, 679 empty lines.

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1 Files tree

```
. └── build_and_checks_dependencies
    ├── build_and_checks.exec.sh.tpl
    ├── build_md_from_printable_md.exec.sh
    ├── check_shell_scripts_beginnings.libr.sh
    ├── check_URLs.libr.sh
    ├── common_build_and_checks.exec.sh
    ├── common_build_and_checks.exec.sh.tpl
    ├── comparisons.libr.sh
    ├── create_PDF.exec.sh
    ├── generate_from_template.libr.sh
    ├── get_common_text_glob_patterns.libr.sh
    ├── grammar_and_spell_check.libr.sh
    └── licenses_templates
        ├── build_licenses_templates.exec.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 GPLv3+.c
        ├── license_file_header GPLv3+.c.tpl
        ├── license_file_header GPLv3+.py
        ├── license_file_header GPLv3+.py.tpl
        ├── license_file_header GPLv3+.sh
        ├── license_file_header GPLv3+.sh.tpl
        ├── license_file_header GPLv3+.tex
        ├── 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.libr.sh
        └── lines_filters.libr.sh
        └── lines_maps.libr.sh
        └── overwrite_if_not_equal.libr.sh
        └── python_black_complement.libr.sh
        └── python_isort_complement.libr.sh
```

```
    └── split_score.exec.php
    └── split_score.libr.php
    └── strings_functions.libr.sh
    └── too_long_code_lines.libr.sh
    └── update_common_build_and_checks.exec.sh
    └── update_or_check_files_names_listing.exec.sh
    └── build_and_checks.exec.sh
    └── build_and_checks_variables
        ├── bandit_baseline.json
        ├── bandit.ini
        ├── DevOrSysAdminScripts.html.tpl
        ├── DevOrSysAdminScripts.tex
        ├── DevOrSysAdminScripts.tex.tpl
        ├── files_listing.tex.tpl
        ├── files_names_listing.txt
        ├── .gitignore
        ├── licenses_notes.txt
        ├── pylintrc.toml
        └── repository_data.txt
    └── COPYING
    └── COPYING.LESSER
    └── DevOrSysAdminScripts.html
    └── DevOrSysAdminScripts.pdf
    └── git_helpers
        ├── git_checks.libr.sh
        ├── post-commit
        ├── post_commit_renaming_comment.libr.sh
        └── pre-commit
    └── LiensUtiles.txt
    └── README.html
    └── README.md
    └── README.md.tpl
    └── unicode.libr.php
    └── upgrade_build_and_checks.exec.sh
    └── wget_sha512.libr.sh
```

5 directories, 74 files

```
[ 12K Feb  3 14:29]  ./
└── [4.0K Feb  3 14:29]  build_and_checks_dependencies/
    ├── [3.4K Feb  3 14:21]  build_and_checks.exec.sh.tpl*
    ├── [2.5K Jan  3 18:57]  build_md_from_printable_md.exec.sh*
    ├── [1.3K Jan  3 18:57]  check_shell_scripts_beginnings.libr.sh
    ├── [2.7K Jan  3 19:40]  check_URLs.libr.sh
    ├── [ 21K Feb  3 12:38]  common_build_and_checks.exec.sh*
    └── [ 16K Jan 30 19:24]  common_build_and_checks.exec.sh.tpl
```

```

[3.1K Jan  3 18:57]  comparisons.libr.sh
[ 15K Feb  3 12:38]  create_PDF.exec.sh*
[3.1K Jan  3 18:57]  generate_from_template.libr.sh
[1.9K Jan  3 18:57]  get_common_text_glob_patterns.libr.sh
[1.9K Jan  3 18:57]  grammar_and_spell_check.libr.sh
[4.0K Feb  3 14:29]  licenses_templates/
[ 8.9K Jan  5 17:56]  build_licenses_templates.exec.sh*
[ 734 Dec 30 19:34]  license_file_header_AGPLv3+.c.tpl
[ 736 Dec 30 19:34]  license_file_header_AGPLv3+.py.tpl
[ 768 Dec 30 19:34]  license_file_header_AGPLv3+.sh.tpl
[ 768 Jan  5 17:57]  license_file_header_AGPLv3+.tex.tpl
[ 728 Dec 30 19:32]  license_file_header_AGPLv3+.tpl
[ 761 Jan  3 18:40]  license_file_header_GPLv3+.c
[ 713 Dec 27 21:48]  license_file_header_GPLv3+.c.tpl
[ 763 Jan  3 18:40]  license_file_header_GPLv3+.py
[ 715 Dec 27 21:48]  license_file_header_GPLv3+.py.tpl
[ 795 Jan  3 18:48]  license_file_header_GPLv3+.sh
[ 747 Dec 27 21:48]  license_file_header_GPLv3+.sh.tpl
[ 795 Jan  5 17:57]  license_file_header_GPLv3+.tex
[ 747 Jan  5 17:57]  license_file_header_GPLv3+.tex.tpl
[ 707 Dec 27 21:48]  license_file_header_GPLv3+.tpl
[ 782 Jan  3 18:40]  license_file_header_LGPLv3+.c
[ 734 Dec 27 21:48]  license_file_header_LGPLv3+.c.tpl
[ 784 Jan  3 18:40]  license_file_header_LGPLv3+.py
[ 736 Dec 27 21:48]  license_file_header_LGPLv3+.py.tpl
[ 816 Jan  3 18:48]  license_file_header_LGPLv3+.sh
[ 768 Dec 27 21:48]  license_file_header_LGPLv3+.sh.tpl
[ 816 Jan  3 18:48]  license_file_header_LGPLv3+.tex
[ 768 Dec 27 21:48]  license_file_header_LGPLv3+.tex.tpl
[ 728 Dec 27 21:48]  license_file_header_LGPLv3+.tpl
[2.2K Jan  3 18:57]  lines_counts.libr.sh
[6.7K Jan  3 18:57]  lines_filters.libr.sh
[2.8K Jan  3 18:57]  lines_maps.libr.sh
[1.7K Feb  3 11:56]  overwrite_if_not_equal.libr.sh
[1.4K Jan 24 18:32]  python_black_complement.libr.sh
[1.7K Jan  3 18:57]  python_isort_complement.libr.sh
[1.5K Jan  4 13:59]  split_score.exec.php
[1.9K Jan  4 13:38]  split_score.libr.php
[ 12K Jan  4 15:39]  strings_functions.libr.sh
[2.3K Jan  3 18:57]  too_long_code_lines.libr.sh
[4.0K Feb  3 10:19]  update_common_build_and_checks.exec.sh*
[4.2K Jan  4 13:49]  *
| update_or_check_files_names_listing.exec.sh**
[3.6K Feb  3 14:21]  build_and_checks.exec.sh*
[4.0K Feb  3 14:29]  build_and_checks_variables/
| [ 15 Jan  5 20:00]  bandit_baseline.json

```

```

    [ 25 Jan  5 18:49] bandit.ini
    [5.1K Jan  7 16:45] DevOrSysAdminScripts.html.tpl
    [ 27K Feb  3 14:29] DevOrSysAdminScripts.tex
    [3.8K Jan  7 16:46] DevOrSysAdminScripts.tex.tpl
    [ 15K Jan 30 19:43] files_listing.tex.tpl
    [5.4K Jan 30 19:43] files_names_listing.txt
    [ 24 Jan 15 22:26] .gitignore
    [1.1K Jan  7 16:44] licenses_notes.txt
    [ 173 Jan 30 19:40] pylintrc.toml
    [3.5K Jan 15 22:24] repository_data.txt
[ 34K May  6 2024] COPYING
[7.5K Dec 27 21:48] COPYING.LESSER
[275K Feb  3 14:29] DevOrSysAdminScripts.html
[269K Feb  3 14:29] DevOrSysAdminScripts.pdf
[4.0K Jan  4 13:54] git_helpers/
    [3.4K Jan  3 18:57] git_checks.libr.sh
    [1.2K Dec 30 17:25] post-commit
    [ 13K Jan  4 13:54] post_commit_renaming_comment.libr.sh
    [1.3K Dec 30 17:03] pre-commit
[ 830 Dec 29 19:10] LiensUtiles.txt
[3.4K Jan  5 19:29] README.html
[3.3K Jan  5 19:29] README.md
[3.3K Jan  5 19:29] README.md.tpl
[ 6.5K Jan  3 18:57] unicode.libr.php
[1.4K Feb  3 14:19] upgrade_build_and_checks.exec.sh*
[1.5K Jan  3 18:57] wget_sha512.libr.sh

5 directories, 74 files

```

2 Listing of files

This repository is dual licensed. All the Bash scripts source code is covered by GPLv3+. All the PHP scripts source code is covered by GPLv3+.

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

Here is a listing of the dependencies of the code in this repository:

- The following dependencies are GPLv3+ licensed:
basename, bash (and its builtins), cat, chmod, cp, cut, date, diff, dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum, shellcheck, sort, tail, wc, wget, xargs
- The following dependencies are GPLv2+ licensed:
more, pandoc, pdflatex, pdflatex, tree

- The following dependencies are GPLv2 licensed:
git, pylint
- The following dependencies are LGPLv2.1+ licensed:
notify-send
- The following dependencies are MIT licensed:
black, isort, mypy
- The following dependencies are Apache-2.0 licensed:
bandit
- php is licensed under PHP License v3.01
- tex is licensed under Knuth license
- pcregrep has a custom license from Cambridge University

Remark: Some commands listed under GPLv3+ are POSIX and can have different implementations under another license; for example, uutils coreutils is MIT licensed, whilst GNU coreutils is GPLv3+ licensed.

2.1 build_and_checks_dependencies/build_and_checks.exec.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "build_and_checks.exec.sh.tpl" was renamed from

```

```

25 # "build_and_checks.sh.tpl" to "build_and_checks.exec.sh.tpl".
26 # The file "build_and_checks.exec.sh" generated from the file
27 # "build_and_checks.sh.tpl" or "build_and_checks.exec.sh.tpl"
28 # was renamed from
29 # "build_and_checks.sh" to "build_and_checks.exec.sh".
30
31 build_and_checks() {
32     local LFBFL_working_directory="."
33     if [[ -n "$1" ]]; then
34         LFBFL_working_directory="$1"
35     fi
36     readonly LFBFL_working_directory
37
38     local LFBFL_verbose=""
39     if [[ "$2" == "--verbose" ]]; then
40         echo "$0 $*"
41         LFBFL_verbose="--verbose"
42     fi
43     readonly LFBFL_verbose
44
45     # shellcheck disable=SC1091
46     source ./wget_sha512.libr.sh
47
48     LFBFL_subdir="build_and_checks_dependencies"
49     mkdir -p "${LFBFL_subdir}/licenses_templates"
50     mkdir -p "build_and_checks_variables/temp"
51     if ! [[ -f "build_and_checks_variables/.gitignore" ]]; then
52         echo "temp/" > "build_and_checks_variables/.gitignore"
53         echo "" >> "build_and_checks_variables/.gitignore"
54     fi
55
56     # LFBFL_dependencies_raw_content_download_URL
57     local LFBFL_dependencies_URL
58     LFBFL_dependencies_URL="https://raw.githubusercontent.com/LLyaudet/"
59     LFBFL_dependencies_URL+="DevOrSysAdminScripts/main/${LFBFL_subdir}"
60     readonly LFBFL_dependencies_URL
61
62     declare -r LFBFL_common_file_name="common_build_and_checks.exec.sh"
63     # LFBFL_script_download_URL
64     declare -r \
65         LFBFL_script="${LFBFL_dependencies_URL}/${LFBFL_common_file_name}"
66     declare -r \
67         LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_common_file_name}"
68     @sha512_common_build_and_checks.exec.sh@
69     wget_sha512 "${LFBFL_file_path}" "${LFBFL_script}" \
70         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

```

```

71 chmod +x "./${LFBFL_file_path}"
72
73 "${LFBFL_file_path}" "${LFBFL_working_directory}" \
74   "${LFBFL_dependencies_URL}" "${LFBFL_verbose}"
75 }
76
77 if [[ "$*" == "--fixed_point_build* ]]; then
78   echo "--fixed_point_build"
79   source "./build_and_checks_dependencies/lines_filters.libr.sh"
80   LFBFL_data_file_name="./build_and_checks_variables/"
81   LFBFL_data_file_name+="repository_data.txt"
82   grep_variable "${LFBFL_data_file_name}" repository_name
83   # Touching the 3 following files first let us iterate
84   # upgrade_build_and_checks 2 times instead of 3 to reach
85   # a fixed point.
86   touch "./build_and_checks_variables/${repository_name}.tex"
87   touch "./${repository_name}.pdf"
88   touch "./${repository_name}.html"
89   # The two iterations of build_and_checks needs to complete
90   # during the same minute to have a fixed point.
91   build_and_checks "$@"
92   # build_and_checks "$@" second iteration below
93   # Then calling this script without --fixed_point_build should not
94   # yield any new superficial modifications.
95 fi
96
97 build_and_checks "$@"

```

2.2 build_and_checks_dependencies/build_md_from_printable_md.exec.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 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 General Public License for more details.

```

```

17  #
18  # You should have received a copy of
19  # the GNU General Public License
20  # along with DevOrSysAdminScripts.
21  # If not, see <https://www.gnu.org/licenses/>.
22  #
23  # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24  # This file was renamed from "build_md_from_printable_md.sh"
25  # to "build_md_from_printable_md.exec.sh".
26
27 LFBFL_verbose=""
28 if [ "$3" == "--verbose" ]; then
29   echo "$0 $*"
30   # shellcheck disable=SC2034
31   LFBFL_verbose="--verbose"
32 fi
33
34 LFBFL_subdir="build_and_checks_dependencies"
35 # shellcheck disable=SC1090
36 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
37
38 LFBFL_sed_expression='s/(\[[a-zA-Z0-9:-]*\]: [^\n\\]*)\\n/\1/Mg'
39 LFBFL_sed_expression+=';s/(<http[^\\n\\"]*)\\n/\1/Mg'
40 LFBFL_sed_expression+=';s/(- <http[^\\n\\"]*)\\n/\1/Mg'
41
42 declare -i LFBFL_cd_result
43 pushd .
44 if [ -n "$1" ];
45 then
46   cd "$1" || {
47     LFBFL_cd_result=$?;
48     echo "build_md_from_printable_md no such directory";
49     # shellcheck disable=SC2248,2250
50     exit $LFBFL_cd_result;
51   }
52 fi
53
54 file_name="README"
55 if [ -n "$2" ];
56 then
57   file_name="$2"
58 fi
59
60 if [ -f "${file_name}.md.tpl" ];
61 then
62   sed -Ez "${LFBFL_sed_expression}" "${file_name}.md.tpl" \

```

```

63      > "${file_name}_temp1.md"
64  sed -Ez "${LFBFL_sed_expression}" "${file_name}_temp1.md"\ \
65      > "${file_name}_temp2.md"
66  sed -Ez "${LFBFL_sed_expression}" "${file_name}_temp2.md"\ \
67      > "${file_name}_temp3.md"
68  sed -Ez "${LFBFL_sed_expression}" "${file_name}_temp3.md"\ \
69      > "${file_name}_temp4.md"
70  overwrite_if_not_equal "${file_name}.md" "${file_name}_temp4.md"
71  rm "${file_name}_temp1.md" "${file_name}_temp2.md"\ \
72      "${file_name}_temp3.md"
73 else
74   echo "No file ${file_name}.md.tpl"
75 fi
76
77 pandoc -f markdown "${file_name}.md" > "${file_name}.html.temp"
78 overwrite_if_not_equal "${file_name}.html" "${file_name}.html.temp"
79
80 declare -i LFBFL_popd_result
81 popd || {
82   LFBFL_popd_result=$?;
83   echo "build_md_from_printable_md no popd";
84   # shellcheck disable=SC2248,2250
85   exit $LFBFL_popd_result;
86 }

```

2.3 build_and_checks_dependencies/check_shell_scripts_beginnings.libr.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License

```

```

20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "check_shell_scripts_beginnings.sh"
25 # to "check_shell_scripts_beginnings.libr.sh".
26
27 check_one_shell_script_beginning() {
28     declare -r LFBFL_file_name=$(basename "$1")
29     if [[ "${LFBFL_file_name}" =~ license_file_header_.*\.sh ]]; then
30         return 0
31     fi
32     # shellcheck disable=SC2312
33     diff <(head -n 1 "$1") <(echo '#!/usr/bin/env bash')
34 }
35
36
37 check_shell_scripts_beginnings() {
38     shopt -s globstar
39     local LFBFL_file_name
40     for LFBFL_file_name in **/*.sh; do
41         check_one_shell_script_beginning "${LFBFL_file_name}"
42     done
43 }

```

2.4 build_and_checks_dependencies/check_URLs.libr.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License

```

```

20  # along with DevOrSysAdminScripts.
21  # If not, see <https://www.gnu.org/licenses/>.
22  #
23  # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24  # This file was renamed from "check_URLs.sh" to "check_URLs.libr.sh".
25
26  LFBFL_subdir="build_and_checks_dependencies"
27  # shellcheck disable=SC1090
28  source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
29  # shellcheck disable=SC1090
30  source "./${LFBFL_subdir}/lines_filters.libr.sh"
31
32  check_URLs() {
33      get_COMMON_TEXT_FILES_GLOB_PATTERNS
34
35      declare -A LFBFL_substitutions
36      LFBFL_substitutions=( \
37          ["http://www.gnu.org/licenses/"]="https://www.gnu.org/licenses/" \
38      )
39
40      local LFBFL_pattern
41      local LFBFL_file_name
42      local LFBFL_base_file_name
43      local LFBFL_substitution
44      local LFBFL_substitution2
45      # shellcheck disable=SC2154
46      for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
47          [[ "$1" != "-v" ]]\
48              || echo "Iterating on pattern: ${LFBFL_pattern}"
49  # shellcheck disable=SC2312
50      find . -type f -name "${LFBFL_pattern}" -printf '%P\n' \
51          | xargs grep -H 'http:' \
52          | grep -v "| xargs grep -H 'htt'" \
53          | grep -vP "[']http(:[^']*)['].*[']https\\1[']"
54  # Last grep just above will remove false positives from
55  # substitutions that fit on one line.
56  # shellcheck disable=SC2312
57      find . -type f -name "${LFBFL_pattern}" -printf '%P\n' \
58          | relevant_find | not_main_html_find \
59          | while read -r LFBFL_file_name;
60      do
61          [[ -f "${LFBFL_file_name}" ]] || continue
62          LFBFL_base_file_name=$(basename "${LFBFL_file_name}")
63          [[ "${LFBFL_base_file_name}" != "check_URLs.libr.sh" ]]\
64              || continue
65          [[ "$1" != "-v" ]]\

```

```

66         || echo "Handling the file: ${LFBFL_file_name}"
67         for LFBFL_substitution in "${!LFBFL_substitutions[@]}"; do
68             LFBFL_substitution2=\
69             ${LFBFL_substitutions[$LFBFL_substitution]}
70             if grep -q "${LFBFL_substitution}" "${LFBFL_file_name}"; then
71                 sed -i "s|${LFBFL_substitution}|${LFBFL_substitution2}|g"\ \
72                 "${LFBFL_file_name}"
73             fi
74         done
75     done
76 done
77 }

```

2.5 build_and_checks_dependencies/common_build_and_checks.exec.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "common_build_and_checks.exec.sh.tpl" was renamed from
25 # "common_build_and_checks.sh.tpl" to
26 # "common_build_and_checks.exec.sh.tpl".
27 # The file "common_build_and_checks.exec.sh" generated from the file
28 # "common_build_and_checks.sh.tpl"
29 # or "common_build_and_checks.exec.sh.tpl"
30 # was renamed from
31 # "common_build_and_checks.sh" to "common_build_and_checks.exec.sh".

```

```

32
33 common_build_and_checks() {
34     # $1 LFBFL_working_directory
35     # $2 LFBFL_dependencies_URL
36     # $3 optional --verbose
37     declare -r LFBFL_working_directory="$1"
38     # declare -r LFBFL_dependencies_URL="$2" too long
39     declare -r LFBFL_start_URL="$2"
40     local LFBFL_verbose=""
41     if [[ "$3" == "--verbose" ]]; then
42         echo "$0 $*"
43         LFBFL_verbose="--verbose"
44     fi
45     readonly LFBFL_verbose
46
47     # shellcheck disable=SC1091
48     source ./wget_sha512.libr.sh
49
50     LFBFL_subdir="build_and_checks_dependencies"
51     local LFBFL_file_name
52     local LFBFL_URL
53     local LFBFL_file_path
54
55     LFBFL_file_name="build_md_from_printable_md.exec.sh"
56     # LFBFL_script_download_URL
57     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
58     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
59     local LFBFL_correct_sha512
60     LFBFL_correct_sha512='38ae695f213ef1c7470a707eaf84d9377e6e636098851'
61     LFBFL_correct_sha512+='0878ec6bc7b8f1d37a104816723a2de0327758dec492'
62     LFBFL_correct_sha512+='09b2f2535671580d1146b8576cd78bc683c3f2c'
63     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
64         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
65     chmod +x "./${LFBFL_file_path}"
66
67     LFBFL_file_name="check_shell_scripts_beginnings.libr.sh"
68     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
69     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
70     local LFBFL_correct_sha512
71     LFBFL_correct_sha512='c07397f927063fbe31e973461b77d7844ccab1a0db498'
72     LFBFL_correct_sha512+='ae9282114f65e6faf3fbe4eb1cd220a1b029334e4f3b'
73     LFBFL_correct_sha512+='9139721bb3123b83512df8817c06c00d4a4d559'
74     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
75         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
76
77     LFBFL_file_name="check_URLs.libr.sh"

```

```

78 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
79 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
80 local LFBFL_correct_sha512
81 LFBFL_correct_sha512='d966792d05fd23375f5006b5446b9b747a28f1ef1fe9d'
82 LFBFL_correct_sha512+='b6f8ff45caa36564bb18ddc38ba91e076bb3abceced2'
83 LFBFL_correct_sha512+='b899c7e5987a231c5165d6dacc9ec52cbe665f5'
84 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
85     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
86
87 LFBFL_file_name="comparisons.libr.sh"
88 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
89 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
90 local LFBFL_correct_sha512
91 LFBFL_correct_sha512='ffed791dabbaelb841fab8b34a2f6d74ec2fa058a1dd5'
92 LFBFL_correct_sha512+='010a2cd222f76811f594659bd60ab18839b2aab7d74b'
93 LFBFL_correct_sha512+='19641fdaf7668524b079280d46da62d491b7f70'
94 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
95     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
96
97 LFBFL_file_name="create_PDF.exec.sh"
98 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
99 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
100 local LFBFL_correct_sha512
101 LFBFL_correct_sha512='a0ef6e5f02e891f996a43c48b4d903035d05b449a9fc5'
102 LFBFL_correct_sha512+='5c0f93f17fec969ea4df73a5952c83249485e50ce4a'
103 LFBFL_correct_sha512+='0279d8be02474d603fac0e064369ad4303e32cf'
104 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
105     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
106 chmod +x "./\${LFBFL_file_path}"
107
108 LFBFL_file_name="generate_from_template.libr.sh"
109 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
110 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
111 local LFBFL_correct_sha512
112 LFBFL_correct_sha512='6687afda93cc8d45177eace4ade4e68a1bb9cc88a58e2'
113 LFBFL_correct_sha512+='94029ecbacb2c9b6d868bc868647f4262360fab21119'
114 LFBFL_correct_sha512+='7663df209b1ab969b5c672afa9c5336cf7bd8c4'
115 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
116     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
117
118 LFBFL_file_name="get_common_text_glob_patterns.libr.sh"
119 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
120 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
121 local LFBFL_correct_sha512
122 LFBFL_correct_sha512='2b87067b4fb0b3ca6c107fdf76cb605a4e9311375cc0e'
123 LFBFL_correct_sha512+='7d0735d4b6a2c182cf738a2f0b91b7210bfa63452943'

```

```

124 LFBFL_correct_sha512+='89930f17bebad69c64389e47afe8d74ec462216'
125 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
126     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
127
128 LFBFL_file_name="grammar_and_spell_check.libr.sh"
129 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
130 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
131 local LFBFL_correct_sha512
132 LFBFL_correct_sha512='a76c188a7769a1d170d415034331b1ca8574482bc1484'
133 LFBFL_correct_sha512+='eccbbb4cadea825c0668caccaca7433fa1c476137fe9'
134 LFBFL_correct_sha512+='f2a71ad6e0ee5bfbfd180bee5a775c997d79865'
135 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
136     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
137
138 # /licenses_templates/ -----
139 declare -r LFBFL_subdir2="${LFBFL_subdir}/licenses_templates"
140 declare -r LFBFL_start_URL2="${LFBFL_start_URL}/licenses_templates"
141 LFBFL_file_name="build_licenses_templates.exec.sh"
142 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
143 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
144 local LFBFL_correct_sha512
145 LFBFL_correct_sha512='c2fee55a889b379a3de67f0c425821bd2d7876df81221'
146 LFBFL_correct_sha512+='b7e5deca4cad459e80713ad834adeb5598e2565a8ef4'
147 LFBFL_correct_sha512+='5b55c63eb76ea78cc085c97cd6dc3342b6fd21b'
148 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
149     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
150 chmod +x "./${LFBFL_file_path}"
151
152 LFBFL_file_name="license_file_header GPLv3+.tpl"
153 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
154 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
155 local LFBFL_correct_sha512
156 LFBFL_correct_sha512='9f9aa56d9b90d5003a12c5ec3370ac31aab74fc4a2524'
157 LFBFL_correct_sha512+='2c5fbcb0197b0abbb8242f62dafc76eaf60faa5da173'
158 LFBFL_correct_sha512+='05924b31b64b037083532fcfd9f98445000e2d0'
159 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
160     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
161
162 LFBFL_file_name="license_file_header GPLv3+.tpl"
163 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
164 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
165 local LFBFL_correct_sha512
166 LFBFL_correct_sha512='2bdef9a729a5a9ca5ed87ef8a518877c5ee6b31b45336'
167 LFBFL_correct_sha512+='08660316a4e595fb31465a4847f4d53a2f7264118bd4'
168 LFBFL_correct_sha512+='eab7c1d1892e00bc1861455ed02898f194db067'
169 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \

```

```

170      "${LFBFL_correct_sha512}" "${LFBFL_verbose}""
171
172  LFBFL_file_name="license_file_header_LGPLv3+.tpl"
173  LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
174  LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}"
175  local LFBFL_correct_sha512
176  LFBFL_correct_sha512='265fd0d086b48ab798f35a072335a4976e4eda8c256fe'
177  LFBFL_correct_sha512+='bba6c77c98ca86cdd844c6ac150c3445c80debbb3fc2'
178  LFBFL_correct_sha512+='574b5fceeeaf79ec734a759bdef5fe798067c62'
179  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
180      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
181  # -----
182
183  LFBFL_file_name="lines_counts.libr.sh"
184  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
185  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
186  local LFBFL_correct_sha512
187  LFBFL_correct_sha512='3e34b8768b4356adf397f3ca1f47ef8f44da42808ca8b'
188  LFBFL_correct_sha512+='b95b830fa8bd9be46bb3cb1f012736b7a6d53549f8a9'
189  LFBFL_correct_sha512+='f60274d6db5d9699bc28270a7d42deaaa6d6d6f'
190  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
191      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
192
193  LFBFL_file_name="lines_filters.libr.sh"
194  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
195  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
196  local LFBFL_correct_sha512
197  LFBFL_correct_sha512='61af110e6d03c7f86dc79361c37896e7e3d4fdea18a6d'
198  LFBFL_correct_sha512+='b5ffe196ad314422e8479dfb4707c176b249a55509ff'
199  LFBFL_correct_sha512+='8413cdf44e130c691200c1e646ce59db14e9b35'
200  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
201      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
202
203  LFBFL_file_name="lines_maps.libr.sh"
204  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
205  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
206  local LFBFL_correct_sha512
207  LFBFL_correct_sha512='ca4fbcc93c407de6aa742b0d5e4ee767d341777d60b3e8'
208  LFBFL_correct_sha512+='e08e8582bab5ee6b305d47e385c1701810691c46ec6'
209  LFBFL_correct_sha512+='a34b5f740b8304114f96ee7052da095ee09c789'
210  wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
211      "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
212
213  LFBFL_file_name="overwrite_if_not_equal.libr.sh"
214  LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
215  LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"

```

```

216 local LFBFL_correct_sha512
217 LFBFL_correct_sha512='c42cc8ec7a5e18c122442ddc954d0736aad8db61610cd'
218 LFBFL_correct_sha512+='a09ec62693a0638157985bc7208c42b61f463da3852e'
219 LFBFL_correct_sha512+='85c422c0012cc80660ecee5d30c4d13bc8a118d'
220 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
221     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
222
223 LFBFL_file_name="python_black_complement.libr.sh"
224 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
225 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
226 local LFBFL_correct_sha512
227 LFBFL_correct_sha512='e28c6e0cfffe6b8eebef26bddfb440f0303d0dcc3987'
228 LFBFL_correct_sha512+='6d498d95b9d589e0800b8381124936e5103b372f509c'
229 LFBFL_correct_sha512+='aeb6213e909710a2ec1e345e076a44f0006fdbb'
230 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
231     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
232
233 LFBFL_file_name="python_isort_complement.libr.sh"
234 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
235 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
236 local LFBFL_correct_sha512
237 LFBFL_correct_sha512='637cddfb803fd8866fa2ab1c72bbcd5b55e2c0068a14d'
238 LFBFL_correct_sha512+='b6140ee00435a69990a6c5e08b6f0bf13ac9574a9ead'
239 LFBFL_correct_sha512+='c59d9b5adcc8f6d99d4d56ca1cc5785c7b22835'
240 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
241     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
242
243 LFBFL_file_name="split_score.exec.php"
244 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
245 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
246 local LFBFL_correct_sha512
247 LFBFL_correct_sha512='e55922c93c3eaf220c101c0133e2b9b5df50bb24f9683'
248 LFBFL_correct_sha512+='21c696dbe80a2207592cf9e7f3270e5fe3a4570ea11'
249 LFBFL_correct_sha512+='9f711405efa83894b88ebac85193b8cf98f39d4'
250 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
251     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
252
253 LFBFL_file_name="split_score.libr.php"
254 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
255 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
256 local LFBFL_correct_sha512
257 LFBFL_correct_sha512='83f3eda17203b34c656353883806d3b2154911cc4d4f7'
258 LFBFL_correct_sha512+='592a42413dc9f24bbd08f72bc51d20f9ca26d06d6861'
259 LFBFL_correct_sha512+='6c40a2b08517ae25bb3bd87c33c28ab4bd8fdf8'
260 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
261     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

```

```

262
263 LFBFL_file_name="strings_functions.libr.sh"
264 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
265 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
266 local LFBFL_correct_sha512
267 LFBFL_correct_sha512='90569be3419610c3ebff08c98ae9dfb4bdbed722767ab'
268 LFBFL_correct_sha512+='4ab5dab201bb8f88f8354fe3b6bff7a7ea9bc5b04a9d'
269 LFBFL_correct_sha512+='23071fad903ffd8e91ec50d0d3b2e5e9b6545fa'
270 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
271     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
272
273 LFBFL_file_name="too_long_code_lines.libr.sh"
274 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
275 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
276 local LFBFL_correct_sha512
277 LFBFL_correct_sha512='69d3b3750ee5e119b3ce4b9a6a3420056fae903a28787'
278 LFBFL_correct_sha512+='0c6047df0883cf623925cc2774d1843996b91093611f'
279 LFBFL_correct_sha512+='97785dc3087769904aeffe3084887e97a736aed'
280 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
281     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
282
283 LFBFL_file_name="update_or_check_files_names_listing.exec.sh"
284 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
285 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
286 local LFBFL_correct_sha512
287 LFBFL_correct_sha512='a0ec8202dcc962e5cbaf7908f285c9a182e6298dedaab'
288 LFBFL_correct_sha512+='af3d7b04369cf4e8639920b13b1dcc78d97bf195a202'
289 LFBFL_correct_sha512+='884d02c0c6c38982cf82ddcb673617d624ad900'
290 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
291     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
292 chmod +x "./\${LFBFL_file_path}"
293
294 shopt -s globstar
295 # shellcheck disable=SC1090
296 source "./\${LFBFL_subdir}/check_shell_scripts_beginnings.libr.sh"
297 # shellcheck disable=SC1090
298 source "./\${LFBFL_subdir}/check_URLs.libr.sh"
299 # shellcheck disable=SC1090
300 source "./\${LFBFL_subdir}/comparisons.libr.sh"
301 # shellcheck disable=SC1090
302 source "./\${LFBFL_subdir}/generate_from_template.libr.sh"
303 # shellcheck disable=SC1090
304 source "./\${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
305 # shellcheck disable=SC1090
306 source "./\${LFBFL_subdir}/grammar_and_spell_check.libr.sh"
307 # shellcheck disable=SC1090

```

```

308 source "./${LFBFL_subdir}/lines_counts.libr.sh"
309 # shellcheck disable=SC1090
310 source "./${LFBFL_subdir}/lines_filters.libr.sh"
311 # shellcheck disable=SC1090
312 source "./${LFBFL_subdir}/lines_maps.libr.sh"
313 # shellcheck disable=SC1090
314 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
315 # shellcheck disable=SC1090
316 source "./${LFBFL_subdir}/python_black_complement.libr.sh"
317 # shellcheck disable=SC1090
318 source "./${LFBFL_subdir}/python_isort_complement.libr.sh"
319 # shellcheck disable=SC1090
320 source "./${LFBFL_subdir}/strings_functions.libr.sh"
321 # shellcheck disable=SC1090
322 source "./${LFBFL_subdir}/too_long_code_lines.libr.sh"
323
324 local LFBFL_data_file_name=\
325 "build_and_checks_variables/repository_data.txt"
326
327 declare -i LFBFL_upgrade_venvs=0
328 declare -r LFBFL_upgrade_venvs_ts_file=\
329 "build_and_checks_variables/upgrade_venvs_ts"
330 declare -i LFBFL_upgrade_venvs_ts
331 declare -i LFBFL_current_ts
332 local LFBFL_upgrade_venvs_answer
333
334 upgrade_venvs_time_interval_in_seconds=""
335 grep_variable "${LFBFL_data_file_name}" \
336     upgrade_venvs_time_interval_in_seconds
337 if [[ "${upgrade_venvs_time_interval_in_seconds}" == "wat" ]]; then
338     upgrade_venvs_time_interval_in_seconds=$((RANDOM))
339 fi
340 if
341     [[ "${upgrade_venvs_time_interval_in_seconds}" == "watyouwant?" ]];
342 then
343     upgrade_venvs_time_interval_in_seconds=$((SRANDOM))
344 fi
345
346 if [[ -f "${LFBFL_upgrade_venvs_ts_file}" ]]; then
347     LFBFL_upgrade_venvs_ts=\
348 $(stat -c %Y "${LFBFL_upgrade_venvs_ts_file}")
349     LFBFL_current_ts=$((date +%s))
350     ((LFBFL_current_ts-=LFBFL_upgrade_venvs_ts))
351     ((LFBFL_current_ts-=upgrade_venvs_time_interval_in_seconds))
352     if [[ LFBFL_current_ts -gt 0 ]]; then
353         LFBFL_upgrade_venvs=1

```

```

354     fi
355   else
356     LFBFL_upgrade_venvs=1
357   fi
358   if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
359     upgrade_venvs=""
360     grep_variable "${LFBFL_data_file_name}" upgrade_venvs
361     if [[ "$upgrade_venvs" != "auto" ]]; then
362       read -r -n 1 -t 10 -p "Upgrade venvs? [Y/n]" \
363         LFBFL_upgrade_venvs_answer
364       if [[ "${LFBFL_upgrade_venvs_answer}" == "n" ]]; then
365         LFBFL_upgrade_venvs=0
366       fi
367     fi
368   fi
369
370   echo "Building license headers"
371   "./${LFBFL_subdir2}/build_licenses_templates.exec.sh" \
372     "${LFBFL_verbose}"
373
374   echo "Building README.md"
375   "./${LFBFL_subdir}/build_md_from_printable_md.exec.sh" \
376     "${LFBFL_working_directory}" "README" "${LFBFL_verbose}"
377
378   pushd .
379   # shellcheck disable=SC2164
380   cd "${LFBFL_working_directory}"
381
382   echo "Running shellcheck"
383   declare -i LFBFL_file_path_length
384   declare -i LFBFL_to_skip_number
385   local LFBFL_file_path_end
386   # shellcheck disable=SC2312
387   find . -name "*.sh" | relevant_find | while read -r LFBFL_file_path;
388   do
389     LFBFL_file_path_length=${#LFBFL_file_path}
390     LFBFL_to_skip_number=$((LFBFL_file_path_length - 9))
391     LFBFL_file_path_end="${LFBFL_file_path:${LFBFL_to_skip_number}}"
392     if [[ "${LFBFL_file_path_end}" == "GPLv3+.sh" ]]; then
393       continue
394     fi
395     shellcheck --check-sourced --enable=all --external-sources \
396       "${LFBFL_file_path}"
397   done
398
399   echo "---Python---"

```

```

400 echo "Running isort"
401 isort_venv=""
402 grep_variable "${LFBFL_data_file_name}" isort_venv
403 if [[ -n "${isort_venv}" ]]; then
404     if command -v deactivate
405     then
406         deactivate
407     fi
408     # shellcheck disable=SC1090,SC1091
409     source "${isort_venv}/bin/activate"
410 fi
411 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
412     pip install --upgrade isort
413 fi
414 isort .
415 if [[ -n "${isort_venv}" ]]; then
416     deactivate
417 fi
418 python_isort_complement
419
420 echo "Running black"
421 black_venv=""
422 grep_variable "${LFBFL_data_file_name}" black_venv
423 if [[ -n "${black_venv}" ]]; then
424     if command -v deactivate
425     then
426         deactivate
427     fi
428     # shellcheck disable=SC1090,SC1091
429     source "${black_venv}/bin/activate"
430 fi
431 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
432     pip install --upgrade black
433 fi
434 black .
435 if [[ -n "${black_venv}" ]]; then
436     deactivate
437 fi
438 python_black_complement
439
440 mypy_venv=""
441 grep_variable "${LFBFL_data_file_name}" mypy_venv
442 if [[ -n "${mypy_venv}" ]]; then
443     if command -v deactivate
444     then
445         deactivate

```

```

446     fi
447     # shellcheck disable=SC1090,SC1091
448     source "${mypy_venv}/bin/activate"
449   fi
450   if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
451     pip install --upgrade mypy
452   fi
453   shopt -s lastpipe
454   local LFBFL_directory_path
455   declare -i LFBFL_no_toml=1
456   # shellcheck disable=SC2312
457   find . -name "pyproject.toml" | relevant_find\
458     | while read -r LFBFL_file_path;
459   do
460     if grep -q "Typing :: Typed" "${LFBFL_file_path}"; then
461       echo "Running mypy"
462       LFBFL_directory_path=$(dirname "${LFBFL_file_path}")
463       mypy "${LFBFL_directory_path}"
464     fi
465     LFBFL_no_toml=0
466   done
467   if [[ LFBFL_no_toml -eq 1 ]]; then
468     echo "Running mypy"
469     mypy .
470   fi
471   if [[ -n "${mypy_venv}" ]]; then
472     deactivate
473   fi
474
475   echo "Running bandit"
476   bandit_venv=""
477   grep_variable "${LFBFL_data_file_name}" bandit_venv
478   if [[ -n "${bandit_venv}" ]]; then
479     if command -v deactivate
480     then
481       deactivate
482     fi
483     # shellcheck disable=SC1090,SC1091
484     source "${bandit_venv}/bin/activate"
485   fi
486   if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
487     pip install --upgrade bandit
488   fi
489   bandit --ini build_and_checks_variables/bandit.ini\
490     -b build_and_checks_variables/bandit_baseline.json\
491     -r .

```

```

492 # Saving new baseline in temp if necessary.
493 bandit --ini build_and_checks_variables/bandit.ini \
494     -f json -o build_and_checks_variables/temp/bandit_baseline.json \
495     -r .
496 if [[ -n "${bandit_venv}" ]]; then
497     deactivate
498 fi
499
500 echo "Running pylint"
501 pylint_venv=""
502 grep_variable "${LFBFL_data_file_name}" pylint_venv
503 if [[ -n "${pylint_venv}" ]]; then
504     if command -v deactivate
505     then
506         deactivate
507     fi
508     # shellcheck disable=SC1090,SC1091
509     source "${pylint_venv}/bin/activate"
510 fi
511 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
512     pip install --upgrade pylint
513 fi
514 pylint --rcfile build_and_checks_variables/pylintrc.toml \
515     --recursive=y .
516 if [[ -n "${pylint_venv}" ]]; then
517     deactivate
518 fi
519 echo "---Python end---"
520
521 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
522     touch "${LFBFL_upgrade_venvs_ts_file}"
523 fi
524
525 echo "Analyzing too long lines"
526 # shellcheck disable=SC2312
527 too_long_code_lines | relevant_grep | not_license_grep
528
529 echo "Analyzing shell scripts beginnings"
530 # shellcheck disable=SC2312
531 check_shell_scripts_beginnings | relevant_grep
532
533 echo "Analyzing URLs"
534 # shellcheck disable=SC2312
535 check_URLs | relevant_grep
536
537 echo "Analyzing strange characters: hover over in doubt"

```

```

538 # shellcheck disable=SC1111
539 LFBFL_usual_characters="\x00-\x7Fàâéèëïïôûç©“”└_|«»"
540 # shellcheck disable=SC2312
541 grep --exclude-dir .git --color=always\
542     -nPr "[^${LFBFL_usual_characters}]" .
543
544 echo "Checking listed files"
545 "./${LFBFL_subdir}/update_or_check_files_names_listing.exec.sh"
546
547 echo "Creating the PDF file of the listing of the source code"
548 "./${LFBFL_subdir}/create_PDF.exec.sh" "${LFBFL_verbose}"
549
550 # shellcheck disable=SC2164
551 popd
552 }
553 common_build_and_checks "$@"

```

2.6 build_and_checks_dependencies/common_build_and_checks.exec.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "common_build_and_checks.exec.sh.tpl" was renamed from
25 # "common_build_and_checks.sh.tpl" to
26 # "common_build_and_checks.exec.sh.tpl".

```

```

27 # The file "common_build_and_checks.exec.sh" generated from the file
28 # "common_build_and_checks.sh.tpl"
29 # or "common_build_and_checks.exec.sh.tpl"
30 # was renamed from
31 # "common_build_and_checks.sh" to "common_build_and_checks.exec.sh".
32
33 common_build_and_checks() {
34     # $1 LFBFL_working_directory
35     # $2 LFBFL_dependencies_URL
36     # $3 optional --verbose
37     declare -r LFBFL_working_directory="$1"
38     # declare -r LFBFL_dependencies_URL="$2" too long
39     declare -r LFBFL_start_URL="$2"
40     local LFBFL_verbose=""
41     if [[ "$3" == "--verbose" ]]; then
42         echo "$0 $*"
43         LFBFL_verbose="--verbose"
44     fi
45     readonly LFBFL_verbose
46
47     # shellcheck disable=SC1091
48     source ./wget_sha512.libr.sh
49
50     LFBFL_subdir="build_and_checks_dependencies"
51     local LFBFL_file_name
52     local LFBFL_URL
53     local LFBFL_file_path
54
55     LFBFL_file_name="build_md_from_printable_md.exec.sh"
56     # LFBFL_script_download_URL
57     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
58     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
59     @sha512_build_md_from_printable_md.exec.sh@
60     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
61         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
62     chmod +x "./${LFBFL_file_path}"
63
64     LFBFL_file_name="check_shell_scripts_beginnings.libr.sh"
65     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
66     LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
67     @sha512_check_shell_scripts_beginnings.libr.sh@
68     wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
69         "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
70
71     LFBFL_file_name="check_URLs.libr.sh"
72     LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"

```

```

73 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
74 @sha512_check_URLs.libr.sh@
75 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
76   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
77
78 LFBFL_file_name="comparisons.libr.sh"
79 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
80 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
81 @sha512_comparisons.libr.sh@
82 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
83   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
84
85 LFBFL_file_name="create_PDF.exec.sh"
86 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
87 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
88 @sha512_create_PDF.exec.sh@
89 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
90   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
91 chmod +x "./${LFBFL_file_path}"
92
93 LFBFL_file_name="generate_from_template.libr.sh"
94 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
95 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
96 @sha512_generate_from_template.libr.sh@
97 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
98   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
99
100 LFBFL_file_name="get_common_text_glob_patterns.libr.sh"
101 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
102 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
103 @sha512_get_common_text_glob_patterns.libr.sh@
104 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
105   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
106
107 LFBFL_file_name="grammar_and_spell_check.libr.sh"
108 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
109 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
110 @sha512_grammar_and_spell_check.libr.sh@
111 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
112   "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
113
114 # /licenses_templates/ -----
115 declare -r LFBFL_subdir2="${LFBFL_subdir}/licenses_templates"
116 declare -r LFBFL_start_URL2="${LFBFL_start_URL}/licenses_templates"
117 LFBFL_file_name="build_licenses_templates.exec.sh"
118 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"

```

```

119 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
120 @sha512_build_licenses_templates.exec.sh@
121 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
122     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
123 chmod +x "${LFBFL_file_path}"

124
125 LFBFL_file_name="license_file_header GPLv3+.tpl"
126 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
127 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
128 @sha512_license_file_header GPLv3+.tpl@
129 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
130     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

131
132 LFBFL_file_name="license_file_header GPLv3+.tpl"
133 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
134 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
135 @sha512_license_file_header GPLv3+.tpl@
136 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
137     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

138
139 LFBFL_file_name="license_file_header LGPLv3+.tpl"
140 LFBFL_URL="${LFBFL_start_URL2}/${LFBFL_file_name}"
141 LFBFL_file_path="./${LFBFL_subdir2}/${LFBFL_file_name}""
142 @sha512_license_file_header LGPLv3+.tpl@
143 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
144     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
145 # -----
146
147 LFBFL_file_name="lines_counts.libr.sh"
148 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
149 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
150 @sha512_lines_counts.libr.sh@
151 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
152     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

153
154 LFBFL_file_name="lines_filters.libr.sh"
155 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
156 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
157 @sha512_lines_filters.libr.sh@
158 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
159     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"

160
161 LFBFL_file_name="lines_maps.libr.sh"
162 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
163 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}""
164 @sha512_lines_maps.libr.sh@
```

```

165 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
166     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
167
168 LFBFL_file_name="overwrite_if_not_equal.libr.sh"
169 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
170 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
171 @sha512_overwrite_if_not_equal.libr.sh@ \
172 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
173     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
174
175 LFBFL_file_name="python_black_complement.libr.sh"
176 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
177 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
178 @sha512_python_black_complement.libr.sh@ \
179 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
180     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
181
182 LFBFL_file_name="python_isort_complement.libr.sh"
183 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
184 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
185 @sha512_python_isort_complement.libr.sh@ \
186 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
187     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
188
189 LFBFL_file_name="split_score.exec.php"
190 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
191 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
192 @sha512_split_score.exec.php@ \
193 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
194     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
195
196 LFBFL_file_name="split_score.libr.php"
197 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
198 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
199 @sha512_split_score.libr.php@ \
200 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
201     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
202
203 LFBFL_file_name="strings_functions.libr.sh"
204 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
205 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}" \
206 @sha512_strings_functions.libr.sh@ \
207 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
208     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
209
210 LFBFL_file_name="too_long_code_lines.libr.sh"

```

```

211 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
212 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
213 @sha512_too_long_code_lines.libr.sh@
214 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
215     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
216
217 LFBFL_file_name="update_or_check_files_names_listing.exec.sh"
218 LFBFL_URL="\${LFBFL_start_URL}/\${LFBFL_file_name}"
219 LFBFL_file_path="./\${LFBFL_subdir}/\${LFBFL_file_name}"
220 @sha512_update_or_check_files_names_listing.exec.sh@
221 wget_sha512 "\${LFBFL_file_path}" "\${LFBFL_URL}" \
222     "\${LFBFL_correct_sha512}" "\${LFBFL_verbose}"
223 chmod +x "./\${LFBFL_file_path}"
224
225 shopt -s globstar
226 # shellcheck disable=SC1090
227 source "./\${LFBFL_subdir}/check_shell_scripts_beginnings.libr.sh"
228 # shellcheck disable=SC1090
229 source "./\${LFBFL_subdir}/check_URLs.libr.sh"
230 # shellcheck disable=SC1090
231 source "./\${LFBFL_subdir}/comparisons.libr.sh"
232 # shellcheck disable=SC1090
233 source "./\${LFBFL_subdir}/generate_from_template.libr.sh"
234 # shellcheck disable=SC1090
235 source "./\${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
236 # shellcheck disable=SC1090
237 source "./\${LFBFL_subdir}/grammar_and_spell_check.libr.sh"
238 # shellcheck disable=SC1090
239 source "./\${LFBFL_subdir}/lines_counts.libr.sh"
240 # shellcheck disable=SC1090
241 source "./\${LFBFL_subdir}/lines_filters.libr.sh"
242 # shellcheck disable=SC1090
243 source "./\${LFBFL_subdir}/lines_maps.libr.sh"
244 # shellcheck disable=SC1090
245 source "./\${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
246 # shellcheck disable=SC1090
247 source "./\${LFBFL_subdir}/python_black_complement.libr.sh"
248 # shellcheck disable=SC1090
249 source "./\${LFBFL_subdir}/python_isort_complement.libr.sh"
250 # shellcheck disable=SC1090
251 source "./\${LFBFL_subdir}/strings_functions.libr.sh"
252 # shellcheck disable=SC1090
253 source "./\${LFBFL_subdir}/too_long_code_lines.libr.sh"
254
255 local LFBFL_data_file_name=\"
256 "build_and_checks_variables/repository_data.txt"

```

```

257
258     declare -i LFBFL_upgrade_venvs=0
259     declare -r LFBFL_upgrade_venvs_ts_file=\"
260 "build_and_checks_variables/upgrade_venvs_ts"
261     declare -i LFBFL_upgrade_venvs_ts
262     declare -i LFBFL_current_ts
263     local LFBFL_upgrade_venvs_answer
264
265     upgrade_venvs_time_interval_in_seconds=""
266     grep_variable "${LFBFL_data_file_name}" \
267         upgrade_venvs_time_interval_in_seconds
268     if [[ "${upgrade_venvs_time_interval_in_seconds}" == "wat" ]]; then
269         upgrade_venvs_time_interval_in_seconds=$((RANDOM))
270     fi
271     if
272         [[ "${upgrade_venvs_time_interval_in_seconds}" == "watyouwant?" ]];
273     then
274         upgrade_venvs_time_interval_in_seconds=$((SRANDOM))
275     fi
276
277     if [[ -f "${LFBFL_upgrade_venvs_ts_file}" ]]; then
278         LFBFL_upgrade_venvs_ts=\
279     $(stat -c %Y "${LFBFL_upgrade_venvs_ts_file}")
280         LFBFL_current_ts=$(date +%s)
281         ((LFBFL_current_ts-=LFBFL_upgrade_venvs_ts))
282         ((LFBFL_current_ts-=upgrade_venvs_time_interval_in_seconds))
283         if [[ LFBFL_current_ts -gt 0 ]]; then
284             LFBFL_upgrade_venvs=1
285         fi
286     else
287         LFBFL_upgrade_venvs=1
288     fi
289     if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
290         upgrade_venvs=""
291         grep_variable "${LFBFL_data_file_name}" upgrade_venvs
292         if [[ "${upgrade_venvs}" != "auto" ]]; then
293             read -r -n 1 -t 10 -p "Upgrade venvs? [Y/n]" \
294                 LFBFL_upgrade_venvs_answer
295             if [[ "${LFBFL_upgrade_venvs_answer}" == "n" ]]; then
296                 LFBFL_upgrade_venvs=0
297             fi
298         fi
299     fi
300
301     echo "Building license headers"
302     "./${LFBFL_subdir2}/build_licenses_templates.exec.sh" \

```

```

303     "${LFBFL_verbose}"
304
305 echo "Building README.md"
306 "./${LFBFL_subdir}/build_md_from_printable_md.exec.sh" \
307     "${LFBFL_working_directory}" "README" "${LFBFL_verbose}"
308
309 pushd .
310 # shellcheck disable=SC2164
311 cd "${LFBFL_working_directory}"
312
313 echo "Running shellcheck"
314 declare -i LFBFL_file_path_length
315 declare -i LFBFL_to_skip_number
316 local LFBFL_file_path_end
317 # shellcheck disable=SC2312
318 find . -name "*.sh" | relevant_find | while read -r LFBFL_file_path;
319 do
320     LFBFL_file_path_length=${#LFBFL_file_path}
321     LFBFL_to_skip_number=$((LFBFL_file_path_length - 9))
322     LFBFL_file_path_end="${LFBFL_file_path}:${LFBFL_to_skip_number}"
323     if [[ "${LFBFL_file_path_end}" == "GPLv3+.sh" ]]; then
324         continue
325     fi
326     shellcheck --check-sourced --enable=all --external-sources\
327         "${LFBFL_file_path}"
328 done
329
330 echo "---Python---"
331 echo "Running isort"
332 isort_venv=""
333 grep_variable "${LFBFL_data_file_name}" isort_venv
334 if [[ -n "${isort_venv}" ]]; then
335     if command -v deactivate
336     then
337         deactivate
338     fi
339     # shellcheck disable=SC1090,SC1091
340     source "${isort_venv}/bin/activate"
341 fi
342 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
343     pip install --upgrade isort
344 fi
345 isort .
346 if [[ -n "${isort_venv}" ]]; then
347     deactivate
348 fi

```

```

349 python_isort_complement
350
351 echo "Running black"
352 black_venv=""
353 grep_variable "${LFBFL_data_file_name}" black_venv
354 if [[ -n "${black_venv}" ]]; then
355     if command -v deactivate
356     then
357         deactivate
358     fi
359     # shellcheck disable=SC1090,SC1091
360     source "${black_venv}/bin/activate"
361 fi
362 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
363     pip install --upgrade black
364 fi
365 black .
366 if [[ -n "${black_venv}" ]]; then
367     deactivate
368 fi
369 python_black_complement
370
371 mypy_venv=""
372 grep_variable "${LFBFL_data_file_name}" mypy_venv
373 if [[ -n "${mypy_venv}" ]]; then
374     if command -v deactivate
375     then
376         deactivate
377     fi
378     # shellcheck disable=SC1090,SC1091
379     source "${mypy_venv}/bin/activate"
380 fi
381 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
382     pip install --upgrade mypy
383 fi
384 shopt -s lastpipe
385 local LFBFL_directory_path
386 declare -i LFBFL_no_toml=1
387 # shellcheck disable=SC2312
388 find . -name "pyproject.toml" | relevant_find\
389     | while read -r LFBFL_file_path;
390 do
391     if grep -q "Typing :: Typed" "${LFBFL_file_path}"; then
392         echo "Running mypy"
393         LFBFL_directory_path=$(dirname "${LFBFL_file_path}")
394         mypy "${LFBFL_directory_path}"

```

```

395     fi
396     LFBFL_no_toml=0
397 done
398 if [[ LFBFL_no_toml -eq 1 ]]; then
399     echo "Running mypy"
400     mypy .
401 fi
402 if [[ -n "${mypy_venv}" ]]; then
403     deactivate
404 fi
405
406 echo "Running bandit"
407 bandit_venv=""
408 grep_variable "${LFBFL_data_file_name}" bandit_venv
409 if [[ -n "${bandit_venv}" ]]; then
410     if command -v deactivate
411     then
412         deactivate
413     fi
414     # shellcheck disable=SC1090,SC1091
415     source "${bandit_venv}/bin/activate"
416 fi
417 if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
418     pip install --upgrade bandit
419 fi
420 bandit --ini build_and_checks_variables/bandit.ini \
421     -b build_and_checks_variables/bandit_baseline.json \
422     -r .
423 # Saving new baseline in temp if necessary.
424 bandit --ini build_and_checks_variables/bandit.ini \
425     -f json -o build_and_checks_variables/temp/bandit_baseline.json \
426     -r .
427 if [[ -n "${bandit_venv}" ]]; then
428     deactivate
429 fi
430
431 echo "Running pylint"
432 pylint_venv=""
433 grep_variable "${LFBFL_data_file_name}" pylint_venv
434 if [[ -n "${pylint_venv}" ]]; then
435     if command -v deactivate
436     then
437         deactivate
438     fi
439     # shellcheck disable=SC1090,SC1091
440     source "${pylint_venv}/bin/activate"

```

```

441     fi
442     if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
443         pip install --upgrade pylint
444     fi
445     pylint --rcfile build_and_checks_variables/pylintrc.toml \
446         --recursive=y .
447     if [[ -n "${pylint_venv}" ]]; then
448         deactivate
449     fi
450     echo "---Python end---"
451
452     if [[ LFBFL_upgrade_venvs -eq 1 ]]; then
453         touch "${LFBFL_upgrade_venvs_ts_file}"
454     fi
455
456     echo "Analyzing too long lines"
457     # shellcheck disable=SC2312
458     too_long_code_lines | relevant_grep | not_license_grep
459
460     echo "Analyzing shell scripts beginnings"
461     # shellcheck disable=SC2312
462     check_shell_scripts_beginnings | relevant_grep
463
464     echo "Analyzing URLs"
465     # shellcheck disable=SC2312
466     check_URLs | relevant_grep
467
468     echo "Analyzing strange characters: hover over in doubt"
469     # shellcheck disable=SC1111
470     LFBFL_usual_characters="\x00-\x7Fàâéèëïîôûç©“”└┘|«»"
471     # shellcheck disable=SC2312
472     grep --exclude-dir .git --color=always \
473         -nPf "[^${LFBFL_usual_characters}]" .
474
475     echo "Checking listed files"
476     "./${LFBFL_subdir}/update_or_check_files_names_listing.exec.sh"
477
478     echo "Creating the PDF file of the listing of the source code"
479     "./${LFBFL_subdir}/create_PDF.exec.sh" "${LFBFL_verbose}"
480
481     # shellcheck disable=SC2164
482     popd
483 }
484
485 common_build_and_checks "$@"

```

2.7 build_and_checks_dependencies/comparisons.libr.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "comparisons.sh" was renamed to "comparisons.libr.sh".
25
26 equal() {
27     # Returns 1 if all the arguments strings are equal.
28     # Renvoie 1 dans $? si toutes les chaînes en arguments sont égales.
29     # J'ai rerepensé au 3-way-merge
30     # et à mon article sur le principe de première différence
31     # appliqué à la largeur modulaire, de clique ou de rang avec
32     # l'idée d'un principe de première différence ternaire.
33     declare -r LFBFL_all_args="$*"
34     local LFBFL_current="${LFBFL_all_args}"
35     local LFBFL_arg
36     for LFBFL_arg in "$@"; do
37         if [[ "${LFBFL_current}" == "${LFBFL_all_args}" ]]; then
38             LFBFL_current="${LFBFL_arg}"
39             continue
40         fi
41         if [[ "${LFBFL_current}" != "${LFBFL_arg}" ]]; then
42             return 0
43         fi
44     done
```

```

45     return 1
46 }
47
48 max() {
49     # Returns the maximum string among the arguments.
50     # Renvoie la chaîne la plus grande parmi celles proposées.
51     # $1=$sort command with the flags you want to be applied.
52     # $ max sort a b c
53     # C
54     if [[ "$#" == 0 ]]; then
55         return 1
56     fi
57     # shellcheck disable=SC2312
58     printf "%s\n" "${@:2}" | eval "$1 -r" | head -1
59 }
60
61 min(){
62     # Returns the minimum string among the arguments.
63     # Renvoie la chaîne la plus petite parmi celles proposées.
64     # $1=$sort command with the flags you want to be applied.
65     # $ min sort a b c
66     # a
67     if [[ "$#" == 0 ]]; then
68         return 1
69     fi
70     # shellcheck disable=SC2312
71     printf "%s\n" "${@:2}" | eval "$1" | head -1
72 }
73
74 is_substring(){
75     # $1=$string
76     # $2=$substring
77     declare -r LFBFL_var_1=$(
78         echo "$1" | sed -e 's/\\/\\&/g' -e "s/'/\\\\\\&/g" \
79     )
80     declare -r LFBFL_var_2=$(
81         echo "$2" | sed -e 's/\\/\\&/g' -e "s/'/\\\\\\&/g" \
82     )
83     local LFBFL_var_3="\$a = '${LFBFL_var_1}';"
84     LFBFL_var_3+=" \$b = preg_quote('${LFBFL_var_2}');"
85     LFBFL_var_3+=" \$c = '/' . addslashes(\$b, '/'). '/';"
86     LFBFL_var_3+=" die(1 - preg_match(\$c, \$a));"
87     readonly LFBFL_var_3
88     php -r "${LFBFL_var_3}"
89     return $?
90 }

```

```

91
92  is_subfile() {
93      # $1=$file_name
94      # $2=$sub_file_name
95      local LFBFL_var_1="$`a = file_get_contents('$1');"
96      LFBFL_var_1+=" `b = preg_quote(file_get_contents('$2'));"'
97      LFBFL_var_1+=" `c = '/'.addcslashes(`b, '/').'/';"'
98      LFBFL_var_1+=" die(1 - preg_match(`c, `a));"
99      readonly LFBFL_var_1
100     php -r "${LFBFL_var_1}"
101     return $?
102 }
103
104 alias min_from_int_sort="min 'sort --numeric-sort'"
105 alias max_from_int_sort="max 'sort --numeric-sort'"

```

2.8 build_and_checks_dependencies/create_PDF.exec.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "create_PDF.sh" to "create_PDF.exec.sh".
25
26 LFBFL_verbose=""
27 if [[ "$1" == "--verbose" ]]; then
28     echo "$0 $*"

```

```

29     LFBFL_verbose="--verbose"
30 fi
31
32 LFBFL_subdir="build_and_checks_dependencies"
33 # shellcheck disable=SC1090
34 source "./${LFBFL_subdir}/generate_from_template.libr.sh"
35 # shellcheck disable=SC1090
36 source "./${LFBFL_subdir}/lines_counts.libr.sh"
37 # shellcheck disable=SC1090
38 source "./${LFBFL_subdir}/lines_filters.libr.sh"
39 # shellcheck disable=SC1090
40 source "./${LFBFL_subdir}/lines_maps.libr.sh"
41 # shellcheck disable=SC1090
42 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
43 # shellcheck disable=SC1090
44 source "./${LFBFL_subdir}/strings_functions.libr.sh"
45 LFBFL_subdir2="build_and_checks_variables"
46
47 LFBFL_data_file_name="build_and_checks_variables/repository_data.txt"
48 repository_name=""
49 grep_variable "${LFBFL_data_file_name}" repository_name
50
51 abstract=""
52 grep_variable "${LFBFL_data_file_name}" abstract
53
54 acknowledgments=""
55 grep_variable "${LFBFL_data_file_name}" acknowledgments
56
57 author_email=""
58 grep_variable "${LFBFL_data_file_name}" author_email
59
60 author_full_name=""
61 grep_variable "${LFBFL_data_file_name}" author_full_name
62
63 author_website=""
64 grep_variable "${LFBFL_data_file_name}" author_website
65
66 # shellcheck disable=SC2155
67 declare -r LFBFL_current_date=$(date -I"date")
68
69 # shellcheck disable=SC2155
70 declare -r LFBFL_current_git_SHA1=$(git rev-parse HEAD)
71
72 # shellcheck disable=SC2155
73 declare -r LFBFL_number_of_commits=$((
74     git shortlog | space_starting_lines | wc -l

```

```

75  )
76
77 LFBFL_number_of_lines=$(code_lines_count_all) total lines,"
78 LFBFL_number_of_lines+=" $(code_lines_count_not_empty)"
79 LFBFL_number_of_lines+=" not empty lines,"
80 LFBFL_number_of_lines+=" $(code_lines_count_empty) empty lines."
81
82 # shellcheck disable=SC2094,SC2312
83 tree -a --gitignore \
84   -I "node_modules/" \
85   -I "__pycache__/" \
86   -I ".mypy_cache/" \
87   -I ".git/" \
88   | replace_non_ascii_spaces \
89   > "${LFBFL_subdir2}/temp/current_tree_light.txt"
90
91 # shellcheck disable=SC2094,SC2312
92 tree -a -DFh --gitignore \
93   -I "node_modules/" \
94   -I "__pycache__/" \
95   -I ".mypy_cache/" \
96   -I ".git/" \
97   | replace_non_ascii_spaces \
98   > "${LFBFL_subdir2}/temp/current_tree.txt.temp"
99
100 LFBFL_temp_files_listing="./${LFBFL_subdir2}/temp/"
101 LFBFL_temp_files_listing+="files_listing.tex.tpl.temp"
102 : > "${LFBFL_temp_files_listing}"
103 LFBFL_temp_files_listing2="./${LFBFL_subdir2}/temp/"
104 LFBFL_temp_files_listing2+="files_listing.html.tpl.temp"
105 : > "${LFBFL_temp_files_listing2}"
106 LFBFL_temp_files_lis="./${LFBFL_subdir2}/temp/files_lis.html.tpl"
107 : > "${LFBFL_temp_files_lis}"
108 get_split_score_simple 1 70 /
109 # shellcheck disable=SC2154
110 declare LFBFL_score_command="${get_split_score_result}"
111 # shellcheck disable=SC2154
112 declare LFBFL_score_command_properties="${get_split_score_result2}"
113 get_split_score_simple 1 70 ':'
114 # shellcheck disable=SC2154
115 declare LFBFL_score_command2="${get_split_score_result}"
116 declare LFBFL_score_command_properties2="${get_split_score_result2}"
117 declare LFBFL_suffix='%'
118 declare LFBFL_sed_expression='s/\n//Mg'
119 declare -i LFBFL_i=0
120 declare LFBFL_suffix2='<!--'

```

```

121 declare LFBFL_prefix2='-->'
122 # shellcheck disable=SC2312
123 sed -Ez "${LFBFL_sed_expression}" \
124   ./${LFBFL_subdir2}/files_names_listing.txt" \
125   | sed -Ez "${LFBFL_sed_expression}" \
126   | sed -Ez "${LFBFL_sed_expression}" \
127   | sed -Ez "${LFBFL_sed_expression}" \
128   | grep -v '^//'\
129   | while read -r LFBFL_file_name;
130 do
131   echo "Listing file for tex/HTML : ${LFBFL_file_name}"
132   # echo "Listing file for tex : ${LFBFL_file_name}"
133   # LFBFL_base_file_name=${(basename "${LFBFL_file_name}")}"
134   LFBFL_cleaned_path1="${LFBFL_file_name//_\\_\_}"
135   LFBFL_cleaned_path2=$(
136     sed -e 's//:/g' -e 's/\./g' <(echo "${LFBFL_file_name}")
137   )
138   echo "\subsection{" >> "${LFBFL_temp_files_listing}"
139   LFBFL_new_lines=" ${LFBFL_cleaned_path1}"
140   if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
141     repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
142       "${LFBFL_suffix}" "${LFBFL_score_command}" \
143       "${LFBFL_score_command_properties}" "\\"
144   # shellcheck disable=SC2154
145   LFBFL_new_lines=${repeated_split_last_line_result}
146 fi
147 # shellcheck disable=SC2129,SC2312
148 echo " ${LFBFL_file_name}" \
149   | sed -e "s| ${LFBFL_file_name}|${LFBFL_new_lines}|g" \
150   -e 's/_\\_\_g'
151   >> "${LFBFL_temp_files_listing}"
152 echo "}" >> "${LFBFL_temp_files_listing}"
153 echo "\label{" >> "${LFBFL_temp_files_listing}"
154 LFBFL_new_lines=" ${LFBFL_cleaned_path2}"
155 if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
156   repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
157     "${LFBFL_suffix}" "${LFBFL_score_command2}" \
158     "${LFBFL_score_command_properties2}"
159   # shellcheck disable=SC2154
160   LFBFL_new_lines=${repeated_split_last_line_result}
161 fi
162 # shellcheck disable=SC2129,SC2312
163 echo " ${LFBFL_cleaned_path2}" \
164   | sed -e "s| ${LFBFL_cleaned_path2}|${LFBFL_new_lines}|g" \
165   >> "${LFBFL_temp_files_listing}"
166 echo "}" >> "${LFBFL_temp_files_listing}"

```

```

167 echo "" >> "${LFBFL_temp_files_listing}"
168 echo "\VerbatimInput[numbers=left,xleftmargin=-5mm] {" \
169   >> "${LFBFL_temp_files_listing}""
170 LFBFL_new_lines="${LFBFL_file_name}"
171 if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
172   repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
173     "${LFBFL_suffix}" "${LFBFL_score_command}" \
174     "${LFBFL_score_command_properties}"
175   # shellcheck disable=SC2154
176   LFBFL_new_lines=${repeated_split_last_line_result}
177 fi
178 # shellcheck disable=SC2129,SC2312
179 echo " ${LFBFL_file_name}" \
180   | sed -e "s| ${LFBFL_file_name}|${LFBFL_new_lines}|g" \
181   >> "${LFBFL_temp_files_listing}"
182 echo ")" >> "${LFBFL_temp_files_listing}"
183 echo "" >> "${LFBFL_temp_files_listing}"
184 echo "" >> "${LFBFL_temp_files_listing}"
185
186 # echo "Listing file for HTML : ${LFBFL_file_name}"
187 ((++LFBFL_i))
188 echo "<h3 id=\"$subsection2.${LFBFL_i}\">>2.${LFBFL_i}" \
189   >> "${LFBFL_temp_files_listing2}"
190 LFBFL_new_lines="${LFBFL_file_name}"
191 if [[ ${#LFBFL_file_name} -gt 70 ]]; then
192   repeated_split_last_line "${LFBFL_new_lines}" "${LFBFL_prefix2}" \
193     70 "${LFBFL_suffix2}" "${LFBFL_score_command}" \
194     "${LFBFL_score_command_properties}"
195   # shellcheck disable=SC2154
196   LFBFL_new_lines=${repeated_split_last_line_result}
197 fi
198 # shellcheck disable=SC2001,SC2129,SC2312
199 echo "${LFBFL_file_name}" \
200   | sed -e "s|${LFBFL_file_name}|${LFBFL_new_lines}|g" \
201   >> "${LFBFL_temp_files_listing2}"
202 echo "</h3>" >> "${LFBFL_temp_files_listing2}"
203 echo "<pre class=\"numbered_lines\">" \
204   >> "${LFBFL_temp_files_listing2}"
205 sed -e 's/&/&#38;/g' -e 's/</&lt;/g' < "${LFBFL_file_name}" \
206   >> "${LFBFL_temp_files_listing2}"
207 echo "</pre>" >> "${LFBFL_temp_files_listing2}"
208 echo "" >> "${LFBFL_temp_files_listing2}"
209 echo "" >> "${LFBFL_temp_files_listing2}"
210
211 # shellcheck disable=SC2129
212 echo "      <li><a href=\"$subsection2.${LFBFL_i}\">>" \

```

```

213     >> "${LFBFL_temp_files_lis}"
214 # shellcheck disable=SC2001
215 echo "${LFBFL_file_name}" \
216     | sed -e "s|${LFBFL_file_name}|${LFBFL_new_lines}|g" \
217     >> "${LFBFL_temp_files_lis}"
218 echo "      </a></li>" >> "${LFBFL_temp_files_lis}"
219 done
220 overwrite_if_not_equal "./${LFBFL_subdir2}/files_listing.tex.tpl" \
221     "${LFBFL_temp_files_listing}"
222 sed -i -e "s|\n</pre>|</pre>g" "${LFBFL_temp_files_listing2}"
223 overwrite_if_not_equal \
224     "./${LFBFL_subdir2}/temp/files_listing.html.tpl" \
225     "${LFBFL_temp_files_listing2}"
226
227 # We verify if some lines are beyond 70 characters
228 # in current_tree_light.txt and current_tree.txt.
229 LFBFL_trees=("current_tree_light.txt" "current_tree.txt.temp")
230 declare LFBFL_tree_path
231 for LFBFL_tree in "${LFBFL_trees[@]}"; do
232     LFBFL_tree_path="${LFBFL_subdir2}/temp/${LFBFL_tree}"
233     # shellcheck disable=SC2312
234     grep '.\{71\}' "${LFBFL_tree_path}" | while read -r LFBFL_line; do
235         # echo "LFBFL_line: ${LFBFL_line}"
236         # shellcheck disable=SC2312
237         LFBFL_prefix=$\
238             echo "${LFBFL_line}" \
239             | sed -E -e 's/(.*)-[^-]+$/\1/g' -e 's/[^\ ]+$/ /g' \
240         )
241         LFBFL_prefix+=" "
242         # echo "LFBFL_prefix: ${LFBFL_prefix}"
243         # shellcheck disable=SC2312
244         LFBFL_file_name=$\
245             echo "${LFBFL_line}" \
246             | sed -E 's|.* ([a-zA-Z0-9\._/-]+).*$|\1|g' \
247         )
248         # echo "LFBFL_file_name: ${LFBFL_file_name}"
249         # shellcheck disable=SC2312
250         LFBFL_line_start=$\
251             echo "${LFBFL_line}" \
252             | sed -E "s/(.*)[\ ]*${LFBFL_file_name}/\1/g" \
253             | sed -e 's/ *$/ /'
254     )
255     # echo "LFBFL_line_start: ${LFBFL_line_start}"
256     LFBFL_line=$\
257         echo "${LFBFL_line}" \
258         | sed -E -e 's/\[\/\\\]/[\\]/g' -e 's/\]/\\]/g' \

```

```

259 )
260 LFBFL_new_lines="${LFBFL_prefix}${LFBFL_file_name}"
261 if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
262     repeated_split_last_line "${LFBFL_new_lines}" "${LFBFL_prefix}" \
263         70 "" "" 3
264     # shellcheck disable=SC2154
265     LFBFL_new_lines=${repeated_split_last_line_result}
266 fi
267 sed -i -e \
268     "s/${LFBFL_line}/${LFBFL_line_start}\n${LFBFL_new_lines}/g" \
269     "${LFBFL_tree_path}"
270 done
271 done
272
273 overwrite_if_not_equal "${LFBFL_subdir2}/temp/current_tree.txt" \
274     "${LFBFL_subdir2}/temp/current_tree.txt.temp" 1 1
275
276 if [[ -f "./${LFBFL_subdir2}/${repository_name}.tex.tpl" ]]; then
277     # If there is a template, we init the process from it.
278     cp "./${LFBFL_subdir2}/${repository_name}.tex.tpl" \
279         "./${LFBFL_subdir2}/temp/${repository_name}.tex.1"
280 elif [[ -f "./${LFBFL_subdir2}/${repository_name}.tex" ]]; then
281     # Otherwise if there is a tex file, we init the process from it.
282     cp "./${LFBFL_subdir2}/${repository_name}.tex" \
283         "./${LFBFL_subdir2}/temp/${repository_name}.tex.1"
284 else
285     echo "Neither .tex.tpl, nor .tex in ./${LFBFL_subdir2}/"
286 fi
287
288 # Same logic with repository HTML file.
289 if [[ -f "./${LFBFL_subdir2}/${repository_name}.html.tpl" ]]; then
290     cp "./${LFBFL_subdir2}/${repository_name}.html.tpl" \
291         "./${LFBFL_subdir2}/temp/${repository_name}.html.1"
292 elif [[ -f "./${repository_name}.html" ]]; then
293     cp "./${repository_name}.html" \
294         "./${LFBFL_subdir2}/temp/${repository_name}.html.1"
295 else
296     echo "Neither .html.tpl in ./${LFBFL_subdir2}/, nor .html in ./"
297 fi
298
299 declare -r LFBFL_tex_path_start=\
300     "./${LFBFL_subdir2}/temp/${repository_name}.tex"
301 declare -r LFBFL_html_path_start=\
302     "./${LFBFL_subdir2}/temp/${repository_name}.html"
303
304 # shellcheck disable=SC2001,SC2312

```

```

305 echo "${abstract}" | sed -e 's/\n/\n/g' \
306   > "./${LFBFL_subdir2}/temp/abstract_temp"
307
308 # shellcheck disable=SC2001,SC2312
309 echo "${acknowledgments}" | sed -e 's/\n/\n/g' \
310   > "./${LFBFL_subdir2}/temp/acknowledgments_temp"
311
312 # But the filling still occurs, in case the dev want to refill
313 # part of the tex/html file that he modified with @token@
314 # using some computed results.
315 # Tex filling:
316 if [[ -f "${LFBFL_tex_path_start}.1" ]]; then
317   sed -i "s|@repository_name@|${repository_name}|g" \
318     "${LFBFL_tex_path_start}.1"
319
320   insert_file_at_token "${LFBFL_tex_path_start}.1" @abstract@ \
321     "./${LFBFL_subdir2}/temp/abstract_temp" \
322     "${LFBFL_tex_path_start}.2"
323
324   insert_file_at_token "${LFBFL_tex_path_start}.2" @acknowledgments@ \
325     "./${LFBFL_subdir2}/temp/acknowledgments_temp" \
326     "${LFBFL_tex_path_start}.3"
327
328   sed -i "s|@author_email@|${author_email}|g" \
329     "${LFBFL_tex_path_start}.3"
330
331   sed -i "s|@author_full_name@|${author_full_name}|g" \
332     "${LFBFL_tex_path_start}.3"
333
334   sed -i "s|@author_website@|${author_website}|g" \
335     "${LFBFL_tex_path_start}.3"
336
337   sed -i "s|@current_date@|${LFBFL_current_date}|g" \
338     "${LFBFL_tex_path_start}.3"
339
340   sed -i "s|@current_git_SHA1@|${LFBFL_current_git_SHA1}|g" \
341     "${LFBFL_tex_path_start}.3"
342
343   sed -i "s|@number_of_commits@|${LFBFL_number_of_commits}|g" \
344     "${LFBFL_tex_path_start}.3"
345
346   sed -i "s|@number_of_lines@|${LFBFL_number_of_lines}|g" \
347     "${LFBFL_tex_path_start}.3"
348
349   pushd "./${LFBFL_subdir2}/temp/" || (echo "pushd failed" && exit)
350   sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}' \

```

```

351     "${repository_name}.tex.3"
352     sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}' \
353         "${repository_name}.tex.3"
354     popd || (echo "popd failed" && exit)
355
356     insert_file_at_token "${LFBFL_tex_path_start}.3" \
357         @files_listing_VerbatimInput@ \
358         "./${LFBFL_subdir2}/files_listing.tex.tpl" \
359         "${LFBFL_tex_path_start}.4"
360
361     overwrite_if_not_equal "./${LFBFL_subdir2}/${repository_name}.tex" \
362         "${LFBFL_tex_path_start}.4" 1
363 fi
364
365 # HTML filling:
366 if [[ -f "${LFBFL_html_path_start}.1" ]]; then
367     sed -i "s|@repository_name@|${repository_name}|g" \
368         "${LFBFL_html_path_start}.1"
369
370     insert_file_at_token "${LFBFL_html_path_start}.1" @abstract@ \
371         "./${LFBFL_subdir2}/temp/abstract_temp" \
372         "${LFBFL_html_path_start}.2"
373
374     insert_file_at_token "${LFBFL_html_path_start}.2" @acknowledgments@ \
375         "./${LFBFL_subdir2}/temp/acknowledgments_temp" \
376         "${LFBFL_html_path_start}.3"
377
378     sed -i "s|@author_email@|${author_email}|g" \
379         "${LFBFL_html_path_start}.3"
380
381     sed -i "s|@author_full_name@|${author_full_name}|g" \
382         "${LFBFL_html_path_start}.3"
383
384     sed -i "s|@author_website@|${author_website}|g" \
385         "${LFBFL_html_path_start}.3"
386
387     sed -i "s|@current_date@|${LFBFL_current_date}|g" \
388         "${LFBFL_html_path_start}.3"
389
390     sed -i "s|@current_git_SHA1@|${LFBFL_current_git_SHA1}|g" \
391         "${LFBFL_html_path_start}.3"
392
393     sed -i "s|@number_of_commits@|${LFBFL_number_of_commits}|g" \
394         "${LFBFL_html_path_start}.3"
395
396     sed -i "s|@number_of_lines@|${LFBFL_number_of_lines}|g" \

```

```

397     "${LFBFL_html_path_start}.3"
398
399     insert_file_at_token "${LFBFL_html_path_start}.3"\ \
400         @files_lis@ "${LFBFL_temp_files_lis}" "${LFBFL_html_path_start}.4"
401
402     pushd "./${LFBFL_subdir2}/temp/" || (echo "pushd failed" && exit)
403     sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}' \
404         "${repository_name}.html.4"
405     sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}' \
406         "${repository_name}.html.4"
407     popd || (echo "popd failed" && exit)
408
409     insert_file_at_token "${LFBFL_html_path_start}.4"\ \
410         @files_listing_HTMLPreInput@ \
411         "./${LFBFL_subdir2}/temp/files_listing.html.tpl"\ \
412         "${LFBFL_html_path_start}.5"
413
414     overwrite_if_not_equal "./${repository_name}.html"\ \
415         "${LFBFL_html_path_start}.5" 1
416 fi
417
418 if [[ -n "${LFBFL_verbose}" ]]; then
419     for ((i=0; i<3; i++)); do
420         pdflatex "./${LFBFL_subdir2}/${repository_name}.tex"
421     done
422 else
423     for ((i=0; i<3; i++)); do
424         pdflatex "./${LFBFL_subdir2}/${repository_name}.tex" > /dev/null
425     done
426 fi
427
428 LFBFL_files_to_temp=(\
429     "${repository_name}.aux"\ \
430     "${repository_name}.log"\ \
431     "${repository_name}.out"\ \
432     "${repository_name}.toc"
433 )
434 for LFBFL_file_name in "${LFBFL_files_to_temp[@]}"; do
435     mv "${LFBFL_file_name}" "${LFBFL_subdir2}/temp/"
436 done

```

2.9 build_and_checks_dependencies/generate_from_template.libr.sh

```

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

```

```

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17 #
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19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "generate_from_template.sh" to
25 # "generate_from_template.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/lines_filters.libr.sh"
30
31 generate_from_template_with_block_comments() {
32     # $1=base_file_name
33     # $2=target_file_name
34     # $3=enter_block_comment
35     # $4=exit_block_comment
36     local LFBFL_temp
37     LFBFL_temp="$2.generate_from_template_with_block_comments.temp"
38     readonly LFBFL_temp
39     echo "$3" > "${LFBFL_temp}"
40     cat "$1" >> "${LFBFL_temp}"
41     echo "$4" >> "${LFBFL_temp}"
42     overwrite_if_not_equal "$2" "${LFBFL_temp}"
43 }
44
45 generate_from_template_with_line_comments() {
46     # $1=base_file_name
47     # $2=target_file_name
48     # $3=line_comment_prefix
49     # $4=optional_post_processing

```

```

50 local LFBFL_temp
51 LFBFL_temp="$2.generate_from_template_with_line_comments.temp"
52 readonly LFBFL_temp
53 sed -e "s/^/$3/g" "$1" > "${LFBFL_temp}"
54 if [[ -n "$4" ]]; then
55     eval "$4"
56 fi
57 overwrite_if_not_equal "$2" "${LFBFL_temp}"
58 }
59
60 split_file_in_two() {
61     # $1=$file_name
62     # $2=$token assume that token is the only thing on his line.
63     # $3=$file_name_part1
64     # $4=$file_name_part2
65     declare -ir LFBFL_line_number=$((grep -n "$2" "$1" | head --lines=1 | cut -f 1 -d ':'))
66     declare -ir LFBFL_line_count=$(ll_wc -l -n "$1")
67     declare -ir LFBFL_lines_after=$((($LFBFL_line_count - LFBFL_line_number)))
68     head --lines="$((LFBFL_line_number - 1))" "$1" > "$3"
69     tail --lines="${LFBFL_lines_after}" "$1" > "$4"
70 }
71
72 insert_file_at_token() {
73     # $1=$file_name
74     # $2=$token assume that token is the only thing on his line.
75     # $3=$file_name_to_insert
76     # $4=$file_name_result
77     declare -r LFBFL_start_file_name="$1.insert_file_at_token1.temp"
78     declare -r LFBFL_end_file_name="$1.insert_file_at_token2.temp"
79     local LFBFL_result_file_name
80     if [[ -n "$4" ]]; then
81         LFBFL_result_file_name="$4"
82     else
83         LFBFL_result_file_name="$1.insert_file_at_token3.temp"
84     fi
85     readonly LFBFL_result_file_name
86     split_file_in_two "$1" "$2" "${LFBFL_start_file_name}" \
87         "${LFBFL_end_file_name}"
88     cat "${LFBFL_start_file_name}" "$3" "${LFBFL_end_file_name}" \
89         > "${LFBFL_result_file_name}"
90     if [[ -z "$4" ]]; then
91         overwrite_if_not_equal "$1" "${LFBFL_result_file_name}"

```

```

96     fi
97     rm "${LFBFL_start_file_name}" "${LFBFL_end_file_name}"
98 }

```

2.10 build_and_checks_dependencies/get_common_text_glob_patterns.libr.sh

```

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23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "get_common_text_glob_patterns.sh"
25 # to "get_common_text_glob_patterns.libr.sh".
26
27 get_COMMON_TEXT_PATHS_GLOB_PATTERNS() {
28     # shellcheck disable=SC2034
29     declare -gr COMMON_TEXT_PATHS_GLOB_PATTERNS=( \
30         '**/*.c' \
31         '**/*.css' \
32         '**/*.h' \
33         '**/*.htm' \
34         '**/*.html' \
35         '**/*.js' \
36         '**/*.json' \
37         '**/*.md' \
38         '**/*.php' \
39         '**/*.py' \
40         '**/*.sh' \

```

```

41     ' **/*.*sql' \
42     ' **/*.*tex' \
43     ' **/*.*toml' \
44     ' **/*.*tpl' \
45     ' **/*.*ts' \
46     ' **/*.*txt' \
47     ' **/*.*yml' \
48     ' **/*COPYING' \
49     ' **/*COPYING.LESSER' \
50     ' **/*pre-commit' \
51     ' **/*post-commit' \
52     ' **/*.gitignore' \
53     ' **/*py.typed' \
54   )
55 }
56
57
58 get_COMMON_TEXT_FILES_GLOB_PATTERNS() {
59   # shellcheck disable=SC2034
60   declare -gr COMMON_TEXT_FILES_GLOB_PATTERNS=( \
61     '*.c' \
62     '*.css' \
63     '*.h' \
64     '*.htm' \
65     '*.html' \
66     '*.js' \
67     '*.json' \
68     '*.md' \
69     '*.php' \
70     '*.py' \
71     '*.sh' \
72     '*.sql' \
73     '*.tex' \
74     '*.toml' \
75     '*.tpl' \
76     '*.ts' \
77     '*.txt' \
78     '*.yml' \
79     'COPYING' \
80     'COPYING.LESSER' \
81     'pre-commit' \
82     'post-commit' \
83     '.gitignore' \
84     'py.typed' \
85   )
86 }
```

2.11 build_and_checks_dependencies/grammar_and_spell_check.libr.sh

```
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23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "grammar_and_spell_check.sh"
25 # to "grammar_and_spell_check.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
30 # shellcheck disable=SC1090
31 source "./${LFBFL_subdir}/lines_filters.libr.sh"
32
33 grammar_and_spell_check() {
34     get_COMMON_TEXT_FILES_GLOB_PATTERNS
35     grammar_or_spell_checker_command=""
36     grep_variable "$1" grammar_or_spell_checker_command
37     # shellcheck disable=SC2312
38     declare -r LFBFL_command=$(
39         echo "${grammar_or_spell_checker_command}" \
40         | sed -Ez -e "s/\n//Mg" \
41     )
42     local LFBFL_file_path
43     local LFBFL_pattern
44     local LFBFL_eval_string
```

```

45  # shellcheck disable=SC2154
46  for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
47      [[ "$2" != "-v" ]] \
48          || echo "Iterating on pattern: ${LFBFL_pattern}"
49      # shellcheck disable=SC2312
50      find . -type f -name "${LFBFL_pattern}" -printf '%P\n' \
51          | while read -r LFBFL_file_path;
52      do
53          LFBFL_eval_string="${LFBFL_command} ${LFBFL_file_path}"
54          eval "${LFBFL_eval_string}"
55      done
56  done
57 }

```

2.12 build_and_checks_dependencies/licenses_templates/build_licenses_templates.exec.sh

```

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23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "build_licenses_templates.sh"
25 # to "build_licenses_templates.exec.sh".
26
27 LFBFL_verbose=""
28 if [[ "$1" == "--verbose" ]]; then
29     echo "$0 $*"
30     # shellcheck disable=SC2034

```

```

31     LFBFL_verbose="--verbose"
32 fi
33
34 LFBFL_subdir="build_and_checks_dependencies"
35 # shellcheck disable=SC1090
36 source "./${LFBFL_subdir}/comparisons.libr.sh"
37 # shellcheck disable=SC1090
38 source "./${LFBFL_subdir}/generate_from_template.libr.sh"
39 # shellcheck disable=SC1090
40 source "./${LFBFL_subdir}/lines_filters.libr.sh"
41 # shellcheck disable=SC1090
42 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
43
44 declare -r \
45     LFBFL_license_subdir="./${LFBFL_subdir}/licenses_templates/"
46 declare -r \
47     LFBFL_license_prefix="${LFBFL_license_subdir}license_file_header_"
48 declare -ar LFBFL_licenses=( \
49     "AGPLv3+" \
50     "GPLv3+" \
51     "LGPLv3+" \
52 )
53
54 # -----
55 # Various language definitions for text file formats
56 declare -ar LFBFL_block_comment_languages=( \
57     "c" \
58     "py" \
59 )
60 declare -ar LFBFL_block_comment_enters=( \
61     '/*' \
62     '"""' \
63 )
64 declare -ar LFBFL_block_comment_exits=( \
65     '*/' \
66     '"""' \
67 )
68 equal "${#LFBFL_block_comment_languages[@]}"\ \
69     "${#LFBFL_block_comment_enters[@]}"\ \
70     "${#LFBFL_block_comment_exits[@]}"\ \
71 # shellcheck disable=SC2181
72 if [[ $? == 0 ]]; then
73     # shellcheck disable=SC1003
74     echo '/!\\"Problème de définition des tableaux de langages 1"/!\\' \
75 fi
76

```

```

77 declare -ar LFBFL_line_comment_languages=( \
78     "sh" \
79     "tex" \
80 )
81 declare -ar LFBFL_line_comment_prefixes=( \
82     '#' \
83     '%' \
84 )
85 equal "${#LFBFL_line_comment_languages[@]}"\ \
86     "${#LFBFL_line_comment_prefixes[@]}"
87 # shellcheck disable=SC2181
88 if [[ $? == 0 ]]; then
89     # shellcheck disable=SC1003
90     echo '/!\\"Problème de définition des tableaux de langages 2"/!\\' \
91 fi
92 # -----
93 # -----
94 # -----
95 # We generate the license header templates adapted to various text
96 # files formats.
97 # Kamoulox do endfor, Jacques Beauregard XD
98 # (C'est toujours mieux que l'inverse :) !)
99 # for do endfor -> for do done (Fort Doux Donne) .
100 declare LFBFL_license
101 declare LFBFL_license_prefix2
102 declare LFBFL_extension
103 declare LFBFL_license_file_name
104 declare LFBFL_enter_string
105 declare LFBFL_exit_string
106 declare LFBFL_temp2
107 declare LFBFL_prefix_string
108 declare LFBFL_intermediate_file_name
109 for LFBFL_license in "${LFBFL_licenses[@]}"; do
110     LFBFL_license_prefix2="${LFBFL_license_prefix}${LFBFL_license}"
111     for ((i=0; i<${#LFBFL_block_comment_languages[@]}; i++)); do
112         LFBFL_extension=${LFBFL_block_comment_languages[i]}
113         LFBFL_license_file_name="${LFBFL_license_prefix2}"
114         LFBFL_license_file_name+=".${LFBFL_extension}"
115         LFBFL_enter_string=${LFBFL_block_comment_enters[i]}
116         LFBFL_exit_string=${LFBFL_block_comment_exits[i]}
117         generate_from_template_with_block_comments\
118             "${LFBFL_license_prefix2}.tpl"\ \
119             "${LFBFL_license_file_name}.tpl"\ \
120             "${LFBFL_enter_string}" "${LFBFL_exit_string}"
121     done
122     LFBFL_temp2=".generate_from_template_with_line_comments.temp"

```

```

123  for ((i=0; i<${#LFBFL_line_comment_languages[@]}; i++)); do
124      LFBFL_extension=${LFBFL_line_comment_languages[i]}
125      LFBFL_license_file_name="${LFBFL_license_prefix2}"
126      LFBFL_license_file_name+=".${LFBFL_extension}"
127      LFBFL_prefix_string=${LFBFL_line_comment_prefixes[i]}
128      LFBFL_intermediate_file_name="${LFBFL_license_file_name}.tpl"
129      LFBFL_intermediate_file_name+=".${LFBFL_temp2}"
130      generate_from_template_with_line_comments \
131          "${LFBFL_license_prefix2}.tpl"\ \
132          "${LFBFL_license_file_name}.tpl"\ \
133          "${LFBFL_prefix_string}"\ \
134          "sed -Ei -e 's/\s*$/g' '${LFBFL_intermediate_file_name}'"
135      done
136  done
137  # -----
138
139 declare -r LFBFL_data_file_name=\
140 "build_and_checks_variables/repository_data.txt"
141 repository_name=""
142 license=""
143 license2=""
144 author_full_name=""
145 grep_variable "${LFBFL_data_file_name}" repository_name
146 grep_variable "${LFBFL_data_file_name}" license
147 grep_variable "${LFBFL_data_file_name}" license2
148 grep_variable "${LFBFL_data_file_name}" author_full_name
149 LFBFL_license_prefix2="${LFBFL_license_prefix}${license}"
150 readonly LFBFL_license_prefix2
151 declare -r LFBFL_license_prefix3="${LFBFL_license_prefix}${license2}"
152
153 # First year according to current state of git repository.
154 # shellcheck disable=SC2155,SC2312
155 declare -r LFBFL_first_year=\
156 "$ (git log | grep 'Date:' | cut -f 8 -d ' ' | tail -1)"
157 # Last year according to current state of git repository.
158 # shellcheck disable=SC2155,SC2312
159 declare -r LFBFL_last_year=\
160 "$ (git log | grep 'Date:' | cut -f 8 -d ' ' | head -1)"
161 LFBFL_copyright_string="${LFBFL_first_year}-${LFBFL_last_year}"
162 LFBFL_copyright_string+="$ {author_full_name}"
163 readonly LFBFL_copyright_string
164
165 prepare_filled_license_file_block() {
166     # $1=license_file_name
167     sed -e "s/@repository_name@/${repository_name}/g"\ \
168         -e "s/@copyright_string@/${LFBFL_copyright_string}/g"\ \

```

```

169      "$1.tpl" > "$1.temp"
170      overwrite_if_not_equal "$1" "$1.temp"
171      # shellcheck disable=SC2312
172      head --lines=-1 "$1" | tail --lines=+2 > "$1.temp"
173      # Strange world: tail --lines=-1 was working to exclude first line.
174      # I tested it months ago, and saw with my eyes the start and end
175      # block comments removed with:
176      # head --lines=-1 "$1" | tail --lines=-1.
177      # Now, man page says to use --lines=+2 instead.
178      # Welcome in the world where AI change your environment and your doc
179      # on the fly...
180  }
181
182 declare -A LFBFL_all_block_comment_languages
183 LFBFL_all_block_comment_languages["c"]="c"
184 LFBFL_all_block_comment_languages["php"]="c"
185 LFBFL_all_block_comment_languages["py"]="py"
186
187 declare LFBFL_key
188 declare LFBFL_dest
189 declare LFBFL_license_file_name2
190 declare -i LFBFL_not_subfile
191 declare -i LFBFL_not_subfile2
192
193 for LFBFL_key in "${!LFBFL_all_block_comment_languages[@]}"; do
194     LFBFL_dest=${LFBFL_all_block_comment_languages[$LFBFL_key]}
195     LFBFL_license_file_name="${LFBFL_license_prefix2}.${LFBFL_dest}"
196     prepare_filled_license_file_block "${LFBFL_license_file_name}"
197     if [[ -n "${license2}" ]]; then
198         LFBFL_license_file_name2="${LFBFL_license_prefix3}.${LFBFL_dest}"
199         prepare_filled_license_file_block "${LFBFL_license_file_name2}"
200     fi
201     # shellcheck disable=SC2312
202     find . -type f -name "*.${LFBFL_key}" -printf '%P\n' \
203         | relevant_find | while read -r LFBFL_file_name;
204     do
205         is_subfile "${LFBFL_file_name}" "${LFBFL_license_file_name}.temp"
206         LFBFL_not_subfile=$?
207         LFBFL_not_subfile2=1
208         if [[ -n "${license2}" ]]; then
209             is_subfile "${LFBFL_file_name}" \
210                 "${LFBFL_license_file_name2}.temp"
211             LFBFL_not_subfile2=$?
212         fi
213         if [[ LFBFL_not_subfile -ge 1 && LFBFL_not_subfile2 -ge 1 ]]; then
214             echo "File ${LFBFL_file_name} has no/wrong license header?"

```

```

215     fi
216 done
217 rm "${LFBFL_license_file_name}.temp"
218 if [[ -n "${license2}" ]]; then
219     rm "${LFBFL_license_file_name2}.temp"
220 fi
221 done
222
223 prepare_filled_license_file_line() {
224     # $1=LFBFL_license_file_name
225     sed -e "s/@repository_name@/${repository_name}/g" \
226         -e "s/@copyright_string@/${LFBFL_copyright_string}/g" \
227         "$1.tpl" > "$1.temp"
228     overwrite_if_not_equal "$1" "$1.temp"
229 }
230
231 declare -A LFBFL_all_line_comment_languages
232 LFBFL_all_line_comment_languages["sh"]="sh"
233 LFBFL_all_line_comment_languages["tex"]="tex"
234
235 for LFBFL_key in "${!LFBFL_all_line_comment_languages[@]}"; do
236     LFBFL_dest=${LFBFL_all_line_comment_languages[$LFBFL_key]}
237     LFBFL_license_file_name="${LFBFL_license_prefix2}.${LFBFL_dest}"
238     prepare_filled_license_file_line "${LFBFL_license_file_name}"
239     if [[ -n "${license2}" ]]; then
240         LFBFL_license_file_name2="${LFBFL_license_prefix3}.${LFBFL_dest}"
241         prepare_filled_license_file_line "${LFBFL_license_file_name2}"
242     fi
243     # shellcheck disable=SC2312
244     find . -type f -name "*.${LFBFL_key}" -printf '%P\n' \
245         | relevant_find | while read -r LFBFL_file_name;
246     do
247         is_subfile "${LFBFL_file_name}" "${LFBFL_license_file_name}"
248         LFBFL_not_subfile=$?
249         LFBFL_not_subfile2=1
250         if [[ -n "${license2}" ]]; then
251             is_subfile "${LFBFL_file_name}" "${LFBFL_license_file_name2}"
252             LFBFL_not_subfile2=$?
253         fi
254         if [[ LFBFL_not_subfile -ge 1 && LFBFL_not_subfile2 -ge 1 ]]; then
255             echo "File ${LFBFL_file_name} has no/wrong license header?"
256         fi
257     done
258 done

```

2.13 build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.c.tpl

```
1  /*
2  This file is part of @repository_name@ library.
3
4  @repository_name@ is free software:
5  you can redistribute it and/or modify it under the terms
6  of the GNU Affero 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 Affero General Public License for more details.
17
18 You should have received a copy of
19 the GNU Affero 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_AGPLv3+.py.tpl

```
1 """
2 This file is part of @repository_name@ library.
3
4 @repository_name@ is free software:
5 you can redistribute it and/or modify it under the terms
6 of the GNU Affero 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 Affero General Public License for more details.
17
```

```

18 You should have received a copy of
19 the GNU Affero General Public License
20 along with @repository_name@.
21 If not, see <https://www.gnu.org/licenses/>.
22
23 ©Copyright @copyright_string@
24 """

```

2.15 build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.sh.t

```

1 # This file is part of @repository_name@ library.
2 #
3 # @repository_name@ is free software:
4 # you can redistribute it and/or modify it under the terms
5 # of the GNU Affero General Public License
6 # as published by the Free Software Foundation,
7 # either version 3 of the License,
8 # or (at your option) any later version.
9 #
10 # @repository_name@ is distributed in the hope
11 # that it will be useful,
12 # but WITHOUT ANY WARRANTY;
13 # without even the implied warranty of
14 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 # See the GNU Affero General Public License for more details.
16 #
17 # You should have received a copy of
18 # the GNU Affero 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_AGPLv3+.tex.t

```

1 % This file is part of @repository_name@ library.
2 %
3 % @repository_name@ is free software:
4 % you can redistribute it and/or modify it under the terms
5 % of the GNU Affero General Public License
6 % as published by the Free Software Foundation,
7 % either version 3 of the License,
8 % or (at your option) any later version.
9 %
10 % @repository_name@ is distributed in the hope
11 % that it will be useful,

```

```

12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU Affero General Public License for more details.
16 %
17 % You should have received a copy of
18 % the GNU Affero General Public License
19 % along with @repository_name@.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright @copyright_string@

```

2.17 build_and_checks_dependencies/licenses_templates/license_file_header_AGPLv3+.tpl

```

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2
3 @repository_name@ is free software:
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5 of the GNU Affero General Public License
6 as published by the Free Software Foundation,
7 either version 3 of the License,
8 or (at your option) any later version.
9
10 @repository_name@ is distributed in the hope
11 that it will be useful,
12 but WITHOUT ANY WARRANTY;
13 without even the implied warranty of
14 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 See the GNU Affero General Public License for more details.
16
17 You should have received a copy of
18 the GNU Affero General Public License
19 along with @repository_name@.
20 If not, see <https://www.gnu.org/licenses/>.
21
22 ©Copyright @copyright_string@

```

2.18 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:
5 you can redistribute it and/or modify it under the terms
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 */

```

2.19 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 """

```

2.20 build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.sh.tpl

```
1 # This file is part of @repository_name@ library.
2 #
3 # @repository_name@ is free software:
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5 # of the GNU General Public License
6 # as published by the Free Software Foundation,
7 # either version 3 of the License,
8 # or (at your option) any later version.
9 #
10 # @repository_name@ is distributed in the hope
11 # that it will be useful,
12 # but WITHOUT ANY WARRANTY;
13 # without even the implied warranty of
14 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 # See the GNU 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@
```

2.21 build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.tex.tpl

```
1 % This file is part of @repository_name@ library.
2 %
3 % @repository_name@ is free software:
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5 % of the GNU General Public License
6 % as published by the Free Software Foundation,
7 % either version 3 of the License,
8 % or (at your option) any later version.
9 %
10 % @repository_name@ is distributed in the hope
11 % that it will be useful,
12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU 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@
```

2.22 build_and_checks_dependencies/licenses_templates/license_file_header_GPLv3+.tpl

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

2.23 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:  
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 @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 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 */

```

2.24 build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.py.t

```

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 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 @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 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 """

```

2.25 build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.sh.t

```

1 # This file is part of @repository_name@ library.
2 #
3 # @repository_name@ is free software:
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5 # of the GNU Lesser General Public License
6 # as published by the Free Software Foundation,
7 # either version 3 of the License,

```

```

8 # or (at your option) any later version.
9 #
10 # @repository_name@ is distributed in the hope
11 # that it will be useful,
12 # but WITHOUT ANY WARRANTY;
13 # without even the implied warranty of
14 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 # See the GNU Lesser General Public License for more details.
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18 # the GNU Lesser General Public License
19 # along with @repository_name@.
20 # If not, see <https://www.gnu.org/licenses/>.
21 #
22 # ©Copyright @copyright_string@

```

2.26 build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.tex.t

```

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2 %
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9 %
10 % @repository_name@ is distributed in the hope
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13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU Lesser General Public License for more details.
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17 % You should have received a copy of
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19 % along with @repository_name@.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright @copyright_string@

```

2.27 build_and_checks_dependencies/licenses_templates/license_file_header_LGPLv3+.tpl

```

1 This file is part of @repository_name@ library.
2
3 @repository_name@ is free software:

```

```

4 you can redistribute it and/or modify it under the terms
5 of the GNU Lesser General Public License
6 as published by the Free Software Foundation,
7 either version 3 of the License,
8 or (at your option) any later version.
9
10 @repository_name@ is distributed in the hope
11 that it will be useful,
12 but WITHOUT ANY WARRANTY;
13 without even the implied warranty of
14 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 See the GNU Lesser General Public License for more details.
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```

2.28 build_and_checks_dependencies/lines_counts.librsh

```

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
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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 # 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "lines_counts.sh" to

```

```

25  # "lines_counts.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
30 # shellcheck disable=SC1090
31 source "./${LFBFL_subdir}/lines_filters.libr.sh"
32
33 all_code_lines(){
34     get_COMMON_TEXT_FILES_GLOB_PATTERNS
35     local LFBFL_pattern
36     # shellcheck disable=SC2154
37     for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
38         [[ "$1" != "-v" ]]\
39             || echo "Iterating on pattern: ${LFBFL_pattern}"
40     # shellcheck disable=SC2312
41     find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
42         | xargs grep -H -v 'a(?!.a)a'
43     done
44 }
45
46 all_self_code_lines(){
47     # shellcheck disable=SC2312
48     all_code_lines "$@" | relevant_grep\
49         | not_license_grep | not_main_tex_grep | not_main_html_grep
50 }
51
52 all_self_empty_code_lines(){
53     # shellcheck disable=SC2312
54     all_self_code_lines "$@" | empty_lines_after_file_name
55 }
56
57 all_self_not_empty_code_lines(){
58     # shellcheck disable=SC2312
59     all_self_code_lines "$@" | not_empty_lines_after_file_name
60 }
61
62 code_lines_count_all(){
63     # shellcheck disable=SC2312
64     all_self_code_lines "$@" | wc -l
65 }
66
67 code_lines_count_empty(){
68     # shellcheck disable=SC2312
69     all_self_empty_code_lines "$@" | wc -l
70 }

```

```

71
72 code_lines_count_not_empty() {
73     # shellcheck disable=SC2312
74     all_self_not_empty_code_lines "$@" | wc -l
75 }

```

2.29 build_and_checks_dependencies/lines_filters.libr.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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "lines_filters.sh" to
25 # "lines_filters.libr.sh".
26 #
27 # The goal of this file is to have some common line filters
28 # for bash processing and pipes.
29 # As is the case for other .sh files in this repository,
30 # it can be copied somewhere in your home directory
31 # and sourced in your .bashrc.
32
33 ll_wc() {
34     # current options to wc:
35     # -c --bytes
36     # -m --chars
37     # -l --lines
38     # --files0-from # Incompatible with cat,

```

```

39      # another thing intentional by ?
40      # I don't see the meaning of "files0".
41      # -L --max-line-length
42      # -w --words
43      # --help
44      # --version
45      # New option by Laurent Lyaudet (and probably other before):
46      # -n --no-filenames display only number(s)
47      # I think I did that the first time many years ago (Teliae ?).
48      # Since then, they added it as ignored... (-n)
49      declare -a ll_wc_var_args=()
50      declare -i ll_wc_var_number_only=0
51      declare -i ll_wc_var_i=0
52      for ll_wc_var_arg in "$@"; do
53          # echo "$ll_wc_var_arg"
54          # shellcheck disable=SC2250
55          if [[ "${ll_wc_var_arg}" == "-n" ]]; then
56              ll_wc_var_number_only=1
57          elif [[ "${ll_wc_var_arg}" == "--no-filenames" ]]; then
58              ll_wc_var_number_only=1
59          elif [[ ${ll_wc_var_number_only} -eq 0 ]]; then
60              ll_wc_var_args[ll_wc_var_i]="${ll_wc_var_arg}"
61              ll_wc_var_i=$((ll_wc_var_i + 1))
62          elif [[ "${ll_wc_var_arg}" =~ -*.* ]]; then
63              ll_wc_var_args[ll_wc_var_i]="${ll_wc_var_arg}"
64              ll_wc_var_i=$((ll_wc_var_i + 1))
65          fi
66      done
67      # typeset -p ll_wc_var_args
68      # echo "$ll_wc_var_number_only"
69      # shellcheck disable=SC2250
70      if [[ ${ll_wc_var_number_only} -gt 0 ]]; then
71          # Too simple code, only the base use case is handled now.
72          # Convenient but incomplete.
73          # With more time,
74          # the simpler would be to submit a patch to GNU coreutils,
75          # unless blockade from assholes.
76          # Otherwise, it may be more simply handled in PHP or Python
77          # (argparse, etc.).
78          # You'll need to start by improving cat first,
79          # with --files0-from handling.
80          # wc does not display file_name when stream...
81          # hence cat of last arg "${!#}"
82          # shellcheck disable=SC2312
83          cat "${!#}" | wc "${ll_wc_var_args[@]}"
84      else

```

```

85      # echo "normal"
86      wc "${ll_wc_var_args[@]}"
87  fi
88 }
89
90 # I submitted a patch for wc :).
91 # echo "https://domain/list-path/2024-05/msg00013.html" | \
92 #     sed -e 's|domain|lists.gnu.org|' \
93 #         -e 's|list-path|archive/html/bug-coreutils|'
94 # I found another way to have a long URL fit on 70 characters.
95 # If it is merged, the following would be better:
96 # If --no-filenames option available,
97 # we redefine ll_wc command as an alias.
98 wc_help_text=$(wc --help)
99 if [[ "$wc_help_text" == *"--no-filenames"* ]]; then
100   alias ll_wc='wc'
101 fi
102
103 # Trace avant le (2e ?) renommage
104 # de wget_sha512.sh à wget_sha512.libr.sh.
105 # $ ll_wc wget_sha512.sh
106 # 41 189 1224 wget_sha512.sh
107 # $ ll_wc -n wget_sha512.sh
108 # 41 189 1224
109 # $ ll_wc -l wget_sha512.sh
110 # 41 wget_sha512.sh
111 # $ ll_wc -l -n wget_sha512.sh
112 # 41
113
114 in_place_grep() {
115   declare -r LFBFL_temp="${!#}.in_place_grep.temp"
116   grep "$@" > "${LFBFL_temp}"
117   declare -r LFBFL_lines_before=$(ll_wc -l -n "${!#}")
118   declare -r LFBFL_lines_after=$(ll_wc -l -n "${LFBFL_temp}")
119   # echo "$LFBFL_lines_before"
120   # echo "$LFBFL_lines_after"
121   if [[ "${LFBFL_lines_before}" == "${LFBFL_lines_after}" ]]; then
122     rm "${LFBFL_temp}"
123     return
124   fi
125   mv "${LFBFL_temp}" "${!#}"
126 }
127
128 grep_variable() {
129   # $1=$file
130   # $2=$variable_name

```

```

131 declare -r LFBFL_regexp="(?=<^$2=) .*$"
132 # echo $LFBFL_regexp
133 declare -r LFBFL_variable_value=$(grep -oP "${LFBFL_regexp}" "$1")"
134 # echo $LFBFL_variable_value
135 declare -g "$2"="$LFBFL_variable_value"
136 }
137
138 repository_name=""
139 grep_variable build_and_checks_variables/repository_data.txt \
140     repository_name
141
142 empty_lines() {
143     grep '^$'
144 }
145
146 not_empty_lines() {
147     grep -v '^$'
148 }
149
150 space_starting_lines() {
151     grep '^[ ]'
152 }
153
154 not_space_starting_lines() {
155     grep '^[^ ]'
156 }
157
158 empty_lines_after_file_name() {
159     grep '^[:]\+:$'
160 }
161
162 not_empty_lines_after_file_name() {
163     grep -v '^[:]\+:$'
164 }
165
166 space_starting_lines_after_file_name() {
167     grep '^[:]\+: '
168 }
169
170 not_space_starting_lines_after_file_name() {
171     grep '^[:]\+:[^ ]'
172 }
173
174 not_JS_dependencies_find() {
175     # shellcheck disable=SC2312
176     grep -vE "^(|/)node_modules/" | grep -vE "^(|/)package-lock\.json$"

```

```

177     }
178
179     not_JS_dependencies_grep() {
180         # shellcheck disable=SC2312
181         grep -v "^[^:]*node_modules/" | grep -v "^[^:]*package-lock\.json:"
182     }
183
184     not_dependencies_find() {
185         not_JS_dependencies_find
186     }
187
188     not_dependencies_grep() {
189         not_JS_dependencies_grep
190     }
191
192     not_python_cache_find() {
193         # shellcheck disable=SC2312
194         grep -vE "^(|/)\__pycache__/" | grep -vE "(|/)\.mypy_cache/"
195     }
196
197     not_python_cache_grep() {
198         # shellcheck disable=SC2312
199         grep -v "^[^:]*\__pycache__/" | grep -v "^[^:]*\.\mypy_cache/"
200     }
201
202     not_cache_find() {
203         not_python_cache_find
204     }
205
206     not_cache_grep() {
207         not_python_cache_grep
208     }
209
210     not_git_find() {
211         grep -vE "^(|/)\.git/"
212     }
213
214     not_git_grep() {
215         grep -v "^[^:]*\.\git/"
216     }
217
218     not_archive_find() {
219         grep -vE "\.gz|\.\rar|\.\tar|\.\tgz|\.\whl)$"
220     }
221
222     not_archive_grep() {

```

```

223     grep -vE "^[^:]*(\.gz|\.rar|\.tar|\.tgz|\.whl):"
224 }
225
226 not_license_find() {
227     # shellcheck disable=SC2312
228     grep -vE "^( |/ )COPYING$" | grep -vE "^( |/ )COPYING\.LESSER$"
229 }
230
231 not_license_grep() {
232     # shellcheck disable=SC2312
233     grep -v "^[^:]*COPYING:" | grep -v "^[^:]*COPYING\.LESSER:"
234 }
235
236 not_main_tex_find() {
237     grep -vE "^( |/ )${repository_name}\.tex$"
238 }
239
240 not_main_tex_grep() {
241     grep -v "^[^:]*${repository_name}\.tex:"
242 }
243
244 not_main_html_find() {
245     grep -vE "^( |/ )${repository_name}\.html$"
246 }
247
248 not_main_html_grep() {
249     grep -v "^[^:]*${repository_name}\.html:"
250 }
251
252 not_temp_file_find() {
253     grep -vE "^( |/ )build_and_checks_variables/temp/.*\$"
254 }
255
256 not_temp_file_grep() {
257     grep -v "^[^:]*build_and_checks_variables/temp/[ ^:]* :"
258 }
259
260 relevant_find() {
261     # shellcheck disable=SC2312
262     not_dependencies_find | not_cache_find | not_git_find \
263     | not_archive_find | not_temp_file_find
264 }
265
266 relevant_grep() {
267     # shellcheck disable=SC2312
268     not_dependencies_grep | not_cache_grep | not_git_grep \

```

```
269     | not_archive_grep | not_temp_file_grep  
270 }
```

2.30 build_and_checks_dependencies/lines_maps.libr.sh

```
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22 #  
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet  
24 # This file was renamed from "lines_maps.sh" to "lines_maps.libr.sh".  
25 #  
26 # https://en.wikibooks.org/wiki/Unicode/Character_reference/2000-2FFF  
27 # Some invisible unicode characters that are a problem:  
28 # 2000-200F 2028-202F 205F 2060-206F  
29 # [  
30 #   '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007',  
31 #   '2008', '2009', '200A', '200B', '200C', '200D', '200E', '200F',  
32 #   '2028', '2029', '202A', '202B', '202C', '202D', '202E', '202F',  
33 #   '205F',  
34 #   '2060', '2061', '2062', '2063', '2064', '2065', '2066', '2067',  
35 #   '2068', '2069', '206A', '206B', '206C', '206D', '206E', '206F',  
36 # ]  
37 replace_non_ascii_spaces() {  
38   # shellcheck disable=SC2312  
39   sed -e 's/\xc2\x{a0}/ /g' \  
40   | sed -e 's/\xe2\x{80}\x{80}/ /g' \  
41   | sed -e 's/\xe2\x{80}\x{81}/ /g' \  
42 }
```

```

42 | sed -e 's/\xe2\x80\x82/ /g' \
43 | sed -e 's/\xe2\x80\x83/ /g' \
44 | sed -e 's/\xe2\x80\x84/ /g' \
45 | sed -e 's/\xe2\x80\x85/ /g' \
46 | sed -e 's/\xe2\x80\x86/ /g' \
47 | sed -e 's/\xe2\x80\x87/ /g' \
48 | sed -e 's/\xe2\x80\x88/ /g' \
49 | sed -e 's/\xe2\x80\x89/ /g' \
50 | sed -e 's/\xe2\x80\x8a/ /g' \
51 | sed -e 's/\xe2\x80\x8b/ /g' \
52 | sed -e 's/\xe2\x80\x8c/ /g' \
53 | sed -e 's/\xe2\x80\x8d/ /g' \
54 | sed -e 's/\xe2\x80\x8e/ /g' \
55 | sed -e 's/\xe2\x80\x8f/ /g' \
56 | sed -e 's/\xe2\x80\xaa/ /g' \
57 | sed -e 's/\xe2\x80\xab/ /g' \
58 | sed -e 's/\xe2\x80\xac/ /g' \
59 | sed -e 's/\xe2\x80\xad/ /g' \
60 | sed -e 's/\xe2\x80\xae/ /g' \
61 | sed -e 's/\xe2\x80\xaf/ /g' \
62 | sed -e 's/\xe2\x81\x9f/ /g' \
63 | sed -e 's/\xe2\x81\xaa/ /g' \
64 | sed -e 's/\xe2\x81\xab/ /g' \
65 | sed -e 's/\xe2\x81\xac/ /g' \
66 | sed -e 's/\xe2\x81\xad/ /g' \
67 | sed -e 's/\xe2\x81\xae/ /g' \
68 | sed -e 's/\xe2\x81\xaf/ /g' \
69 | sed -e 's/\xe2\x81\xaa/ /g' \
70 | sed -e 's/\xe2\x81\xab/ /g' \
71 | sed -e 's/\xe2\x81\xac/ /g' \
72 | sed -e 's/\xe2\x81\xad/ /g' \
73 | sed -e 's/\xe2\x81\xae/ /g' \
74 | sed -e 's/\xe2\x81\xaf/ /g' \
75 | sed -e 's/\xe2\x81\xaa/ /g' \
76 | sed -e 's/\xe2\x81\xab/ /g' \
77 | sed -e 's/\xe2\x81\xac/ /g' \
78 | sed -e 's/\xe2\x81\xad/ /g' \
79 | sed -e 's/\xe2\x81\xae/ /g' \
80 | sed -e 's/\xe2\x81\xaf/ /g'
81 }

```

2.31 build_and_checks_dependencies/overwrite_if_not_equal.libr.sh

```

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

```

```

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23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "overwrite_if_not_equal.sh"
25 # to "overwrite_if_not_equal.libr.sh".
26
27 overwrite_if_not_equal() {
28     # $1=$target_file_name
29     # $2=$temp_file_name
30     # $3=$keep_temp
31     # $4=$tree_mode : when the two files are the output of tree command,
32     # we ignore if all the differences are only on directories.
33     if [[ ! -f "$1" ]]; then
34         if [[ -n "$3" ]]; then
35             cp -p "$2" "$1"
36         else
37             mv "$2" "$1"
38         fi
39     return
40   fi
41   declare -i LFBFL_is_equal=$?
42   if [[ -n "$4" ]]; then
43     # shellcheck disable=SC2312
44     diff "$1" "$2" | grep -E "^(>|<)" | grep -v "/$"
45     LFBFL_is_equal=1-$?
46   else
47     diff -q "$1" "$2"
48     LFBFL_is_equal=$?
49   fi

```

```

50  # shellcheck disable=SC2250
51  if [[ $LFBFL_is_equal == 0 ]]; then
52      if [[ -z "$3" ]]; then
53          rm "$2"
54      fi
55  else
56      if [[ -n "$3" ]]; then
57          cp -p "$2" "$1"
58      else
59          mv "$2" "$1"
60      fi
61  fi
62 }

```

2.32 build_and_checks_dependencies/python_black_complement.libr.sh

```

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23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "python_black_complement.sh"
25 # to "python_black_complement.libr.sh".
26 #
27 # It was rejected to enhance black with this currently.
28 # https://github.com/psf/black/issues/2370
29 # And moreover, at some point, I saw the reverse rule
30 # in black or pylint to add an empty line...

```

```

31 # This regexp may give false positives,
32 # but that's not the end of the world.
33 check_no_empty_line_after_python_function_docstring() {
34     echo "Checking empty lines after Python function docstrings"
35     pcregrep -M $'def ["]*"""(["]|"(?!""))*"""\n\n(?!\\s*def)' \
36         -- **/*.py
37 }
38
39 python_black_complement() {
40     check_no_empty_line_after_python_function_docstring
41 }
```

2.33 build_and_checks_dependencies/python_isort_complement.libr.sh

```

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23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "python_isort_complement.sh"
25 # to "python_isort_complement.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/lines_filters.libr.sh"
30 # shellcheck disable=SC1090
31 source "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
32
```

```

33  check_collections_abc_place() {
34      echo "Checking import of _collections_abc is at the right place"
35      declare -r LFBFL_temp=".check_collections_abc_place.temp"
36      # shellcheck disable=SC2312
37      find . -name "*.py" | relevant_find\
38          | while read -r LFBFL_file_name; do
39              [[ -f "${LFBFL_file_name}" ]] || continue
40              sed -Ez 's/^\n(\nfrom _collections_abc[^\\n]*)/\\1\\n/Mg' \
41                  "${LFBFL_file_name}" > "${LFBFL_file_name}${LFBFL_temp}"
42              overwrite_if_not_equal "${LFBFL_file_name}" \
43                  "${LFBFL_file_name}${LFBFL_temp}"
44      done
45  }
46
47  python_isort_complement() {
48      check_collections_abc_place
49  }

```

2.34 build_and_checks_dependencies/split_score.exec.php

```

1 #!/usr/bin/php
2 <?php
3 /*
4 This file is part of DevOrSysAdminScripts library.
5
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24
25 ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
26 2026-01-04T13:38+01:00: This file was renamed from

```

```

27 "split_line_at_most.exec.php"
28 to
29 "split_score.exec.php".
30 This file was renamed from
31 "call_split_score_after_before_or_before_after.exec.php" to
32 "split_line_at_most.exec.php".
33 This file was renamed from
34 "call_split_score_after_before_or_before_after.php" to
35 "call_split_score_after_before_or_before_after.exec.php".
36 */
37
38 require_once('./build_and_checks_dependencies/split_score.libr.php');
39
40 /*
41 php -r\
42 '$require_once("./build_and_checks_dependencies/" \
43 '$split_score.libr.php');'\
44 '$echo(generate_split_score'\
45 '$(true, 70, ["/"\'])("/"\', 60, true));'
46 */
47
48 echo(
49     generate_split_score(
50         (bool) $argv[1], (int) $argv[2], explode(',', $argv[3]),
51         )($argv[4], (int) $argv[5], (bool) $argv[6])
52 );

```

2.35 build_and_checks_dependencies/split_score.libr.php

```

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```

```

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24 ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
25 2026-01-04T13:38+01:00: This file was renamed from
26 "split_line_at_most.libr.php"
27 to
28 "split_score.libr.php".
29 This file was renamed from "split_line_at_most.php" to
30 "split_line_at_most.libr.php".
31 */
32
33 function generate_split_score(
34     $b_after_before,
35     $i_max_length,
36     $a_delimiter_strings_domain,
37 ) {
38     return function(
39         $s_delimiter_string,
40         $i_cut_position,
41         $b_is_cut_after,
42     ) use ($b_after_before, $i_max_length, $s_delimiter_strings_domain) {
43         if (
44             !in_array(
45                 $s_delimiter_string, $s_delimiter_strings_domain, true
46             )
47         ) {
48             // I do not handle regexps for the moment.
49             // I'm too brainfucked. I just want to finish this feature fast
50             // for HTML and Tex/PDF listings generation with HTML and Tex on
51             // at most 70 characters.
52             return 0;
53         }
54         if ($b_is_cut_after === $b_after_before) {
55             // When $b_after_before,
56             // always way better to cut after '/' than before it.
57             // When !$b_after_before (aka before_after),
58             // always way better to cut before '/' than after it.
59             return 1 + $i_max_length + $i_cut_position;
60         }
61         return 1 + $i_cut_position;
62     };
63 }

```

2.36 build_and_checks_dependencies/strings_functions.libr.sh

```
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19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # I think I created a file strings_functions.sh or renamed to
25 # strings_functions.sh at some point, before committing.
26 # Hence, someone must have changed or reversed the name of this file
27 # to string_functions.sh at some point.
28 # This file was renamed from "string_functions.sh" to
29 # "strings_functions.libr.sh".
30
31 LFBFL_subdir="build_and_checks_dependencies"
32 # shellcheck disable=SC1090
33 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
34 # shellcheck disable=SC1090
35 source "./${LFBFL_subdir}/comparisons.libr.sh"
36
37 split_line_at() {
38     # $1=$line
39     # $2=$position
40     declare -g split_line_at_result_beginning="${1:0:$2}"
41     declare -g split_line_at_result_end="${1:$2}"
42     # echo "$split_line_at_result_beginning"
43     # echo "$split_line_at_result_end"
44 }
```

```

45
46 split_score_simple() {
47     # $1=$after_before
48     # $2=$delimiters_strings_domain concatenated characters/delimiters
49     # $3=$delimiter_string a single character
50     # $4=$is_cut_after
51     declare -gi split_score_result
52     if [[ "$2" != *$3* ]]; then
53         split_score_result=0
54         return
55     fi
56     if [[ "$4" == "$1" ]]; then
57         split_score_result=2
58         return
59     fi
60     split_score_result=1
61 }
62
63 get_split_score_simple() {
64     # $1=$after_before
65     # $2=$max_length
66     # $3=$delimiters_strings_domain
67     declare -g get_split_score_result="split_score_simple \$1 '\$3'"
68     declare -gi get_split_score_result2
69     # shellcheck disable=SC2034,2125
70     get_split_score_result2=7+$1*4
71     # if [[ \$1 -eq 1 ]]; then
72     #     get_split_score_result2=7
73     # else
74     #     get_split_score_result2=11
75     # fi
76 }
77
78 get_split_score_exec() {
79     declare -g SPLIT_SCORE_EXEC="./build_and_checks_dependencies"
80     SPLIT_SCORE_EXEC+="/split_score.exec.php"
81 }
82
83 split_score() {
84     # $1=$after_before
85     # $2=$max_length
86     # $3=$delimiters_strings_domain concatenated characters/delimiters
87     # $4=$delimiter_string a single character
88     # $5=$cut_position
89     # $6=$is_cut_after
90     get_split_score_exec

```

```

91 declare -r LFBFL_command="${SPLIT_SCORE_EXEC} $1 $2 '$3' '$4' $5 $6"
92 declare -gi split_score_result
93 split_score_result=$(eval "${LFBFL_command}")
94 }
95
96 get_split_score() {
97     # $1=$after_before
98     # $1=$max_length
99     # $2=$delimiters_strings_domain
100    # shellcheck disable=SC2034
101    declare -g get_split_score_result="split_score $1 $2 '$3'"
102    declare -gi get_split_score_result2
103    # shellcheck disable=SC2034,2125
104    get_split_score_result2=5+$1*4
105 }
106
107 split_line_at_most() {
108     # $1=$line
109     # $2=$max_length of beginning result string
110     # $3=$split_score_command
111     # negative score means do not consider as a possible split
112     # $4=$split_score_command_properties :
113     # These properties are flags.
114     # If someday some property is not a flag,
115     # then create split_score_command_properties2.
116     # - null or 0 no property;
117     # - 1 split score doesn't depend on which delimiter matches;
118     # - 2 split score doesn't depend on the current position;
119     # - 4 any split score after is always larger
120     #     than any split score before;
121     # - 8 any split score before is always larger
122     #     than any split score after;
123     # $5=$forbidden_previous_character
124     # $6=$split_score_command_delimiter_strings_domain
125     # optimisation if small domain
126     # - this argument can be "null", then we will use $3 only instead,
127     #     in that case, only mono-character strings are considered,
128     # - this argument can be an array of characters,
129     #     optimize accordingly,
130     # - this argument can be an array of strings,
131     #     optimize accordingly,
132     # - this argument can be an array of regexps,
133     #     optimize accordingly.
134     # Not sure an array of regexps makes more sense than a single
135     # one. Maybe they could be both cases with corresponding
136     # optimizations. Same for a single character or substring.

```

```

137 #
138 # Note that we're always looking for the last position to split
139 # among maximum score;
140 # if some position gets as score from 2 delimiters,
141 # its score is always the maximum of the two corresponding scores.
142 declare -g split_line_at_most_result_start
143 declare -g split_line_at_most_result_end
144 declare -A LFBFL_positions
145 # echo "$1 $2 $3 $4"
146 # For my use case in bash scripts, I will need only an array of
147 # characters. See get_split_score_after_before().
148 if [[ -n "$6" ]]; then
149     echo "split_line_at_most() \$4 NOT IMPLEMENTED YET"
150 fi
151 if [[ "$2" -ge "${#1}" ]]; then
152     split_line_at_most_result_start=$1
153     split_line_at_most_result_end=""
154     return
155 fi
156 declare -r LFBFL_sort_command="sort --numeric-sort"
157 declare -r LFBFL_length_minus_1=$(( ${#1} - 1 ))
158 declare -r LFBFL_i_max=${(
159     min "${LFBFL_sort_command}" "${LFBFL_length_minus_1}" "$2"
160 )
161 local LFBFL_i
162 local LFBFL_j
163 local LFBFL_previous_char
164 local LFBFL_current_char
165
166 # At the beginning, each position has score 0.
167 for ((LFBFL_i=0; LFBFL_i<=LFBFL_i_max; ++LFBFL_i)) do
168     LFBFL_positions["${LFBFL_i}"]="0"
169 done
170 LFBFL_j=$((LFBFL_i+1))
171 LFBFL_positions["${LFBFL_j}"]="0"
172
173 # If we have a forbidden previous character,
174 # we mark the forbidden positions with -1.
175 if [[ -n "$5" ]]; then
176     LFBFL_previous_char=""
177     for ((LFBFL_i=0; LFBFL_i<LFBFL_i_max; ++LFBFL_i)) do
178         LFBFL_j=$((LFBFL_i+1))
179         if [[ ${LFBFL_i} -ge 1 ]]; then
180             LFBFL_previous_char="${LFBFL_current_char}"
181         fi
182         LFBFL_current_char="${1:${LFBFL_i}:1}"

```

```

183     if [[ "${LFBFL_previous_char}" == "$5" ]]; then
184         LFBFL_positions["${LFBFL_i}"]=-1"
185     fi
186     if [[ "${LFBFL_current_char}" == "$5" ]]; then
187         LFBFL_positions["${LFBFL_j}"]=-1"
188     fi
189     done
190 fi
191
192 if [[ "$4" == "7" ]]; then
193     for ((LFBFL_j=LFBFL_i_max; LFBFL_j>0; --LFBFL_j)) do
194         LFBFL_i=$((LFBFL_j-1))
195         LFBFL_current_char="${1:${LFBFL_i}:1}"
196         eval "$3 '\${LFBFL_current_char}' 0"
197         # echo "\${split_score_result}|${LFBFL_i}"
198         if [[ ${split_score_result} -ge 1 ]]; then
199             # echo "\${split_score_result}|${LFBFL_i}"
200             if [[ ${LFBFL_positions["${LFBFL_i}"]} != "-1" ]]; then
201                 LFBFL_positions["${LFBFL_i}"]=$(((
202                     max "\${LFBFL_sort_command}" \
203                     "\${LFBFL_positions["${LFBFL_i}"]}" ) \
204                     "\${split_score_result}"
205                 ))
206             fi
207         fi
208         eval "$3 '\${LFBFL_current_char}' 1"
209         # echo "\${split_score_result}|${LFBFL_j}"
210         if [[ ${split_score_result} -ge 1 ]]; then
211             # echo "\${split_score_result}|${LFBFL_j}"
212             if [[ ${LFBFL_positions["${LFBFL_j}"]} != "-1" ]]; then
213                 LFBFL_positions["${LFBFL_j}"]=$(((
214                     max "\${LFBFL_sort_command}" \
215                     "\${LFBFL_positions["${LFBFL_j}"]}" ) \
216                     "\${split_score_result}"
217                 ))
218             break
219         fi
220     fi
221     done
222 else
223     for ((LFBFL_i=0; LFBFL_i<LFBFL_i_max; ++LFBFL_i)) do
224         LFBFL_j=$((LFBFL_i+1))
225         LFBFL_current_char="${1:${LFBFL_i}:1}"
226         eval "$3 '\${LFBFL_current_char}' ${LFBFL_i} 0"
227         # echo "\${split_score_result}|${LFBFL_i}"
228         if [[ ${split_score_result} -ge 1 ]]; then

```

```

229     # echo "${split_score_result}|${LFBFL_i}"
230     if [[ ${LFBFL_positions["${LFBFL_i}"]} != "-1" ]]; then
231         LFBFL_positions["${LFBFL_i}"]=$(((
232             max ${LFBFL_sort_command}) \
233             ${LFBFL_positions["${LFBFL_i}"]} ) \
234             ${split_score_result})
235     )
236     fi
237 fi
238 eval "$3'${LFBFL_current_char}' ${LFBFL_j} 1"
239 # echo "${split_score_result}|${LFBFL_j}"
240 if [[ ${split_score_result} -ge 1 ]]; then
241     # echo "${split_score_result}|${LFBFL_j}"
242     if [[ ${LFBFL_positions["${LFBFL_j}"]} != "-1" ]]; then
243         LFBFL_positions["${LFBFL_j}"]=$(((
244             max ${LFBFL_sort_command}) \
245             ${LFBFL_positions["${LFBFL_j}"]} ) \
246             ${split_score_result})
247     )
248     fi
249     fi
250 done
251 fi
252 declare -r LFBFL_max_score=\
253 $(max 'sort --numeric-sort' "${LFBFL_positions[@]}")
254 local LFBFL_best_position
255 for ((LFBFL_i=0; LFBFL_i<=LFBFL_i_max; ++LFBFL_i)) do
256     local LFBFL_value=${LFBFL_positions[$LFBFL_i]}
257     # echo "${LFBFL_i} ${LFBFL_value}"
258     if [[ "${LFBFL_value}" == "${LFBFL_max_score}" ]]; then
259         LFBFL_best_position="${LFBFL_i}"
260     fi
261 done
262 split_line_at "$1" "${LFBFL_best_position}"
263 # shellcheck disable=SC2250
264 split_line_at_most_result_start=${split_line_at_result_beginning}
265 split_line_at_most_result_end="${split_line_at_result_end}"
266 # echo "$split_line_at_most_result_start"
267 # echo "$split_line_at_most_result_end"
268 }
269
270 split_last_line() {
271     # $1=$new_lines
272     # $2=$prefix
273     # $3=$max_length
274     # $4=$suffix

```

```

275 # $5=$split_score_command
276 # $6=$split_score_command_properties
277 # $7=$forbidden_previous_character ('\\' usually)
278 # In general, a prefix/suffix can be a required line prefix/suffix
279 # for all final lines like a comment prefix,
280 # or it can be a continuation line prefix/suffix applied only
281 # when splitting a line in 2 lines,
282 # or it can be a prefix/suffix for the string made of all the lines.
283 # Clearly, there is no gain to couple handling a prefix/suffix for
284 # the string made of all the lines in this function.
285 # Since we add a prefix/suffix when splitting,
286 # it is easy to see that we do not need to distinguish between
287 # required line prefix/suffix and continuation line prefix/suffix.
288 # The $2 and $4 arguments are given as concatenation of the
289 # required and continuation line prefixes/suffixes as needed by the
290 # user.
291 # Thus lines arguments should be given already prefixed
292 # and suffixed.
293 # This is logic, since it would be cumbersome to handle prefixing
294 # or not already splitted lines in this function
295 # (see repeated_split_last_line).
296 # The given max_length is the goal.
297 # This function adapts the effective max position for the split by
298 # taking into account the length of the suffix.
299 declare -g split_last_line_result="$1"
300 declare -r LFBFL_max_length_plus=$((3 + 1))
301 declare -r LFBFL_length2=$((3 - ${#4}))
302 declare -r LFBFL-regexp='.'{${LFBFL_max_length_plus}}$'
303 # shellcheck disable=SC2312
304 if echo "$1" | sed -e 's/\n/\n/g' | grep -q "${LFBFL-regexp}"; then
305     # shellcheck disable=SC2312
306     declare -r LFBFL_start=$(\
307         echo "$1" | sed -e 's/\n/\n/g' | head --lines=-1\
308         | sed -z 's/\n/\n/g'\
309     )
310     # echo "start: $LFBFL_start"
311     declare -r LFBFL_last_line=$(\
312         echo "$1" | sed -e 's/\n/\n/g' | tail --lines=1\
313     )
314     # echo "last_line: ${LFBFL_last_line}"
315     split_last_line_result=""
316     if [[ -n "${LFBFL_start}" ]]; then
317         split_last_line_result="${LFBFL_start}\n"
318     fi
319     if [[ -n "$5" ]]; then
320         split_line_at_most "${LFBFL_last_line}" "${LFBFL_length2}" \

```

```

321         "$5" "$6" "$7"
322         split_last_line_result+="${split_line_at_most_result_start}$4"
323         split_last_line_result+="\n"
324         split_last_line_result+="$2${split_line_at_most_result_end}"
325     else
326         # shellcheck disable=SC2250
327         split_last_line_result+=" ${LFBFL_last_line:0:$LFBFL_length2}$4"
328         split_last_line_result+="\n"
329         # shellcheck disable=SC2250
330         split_last_line_result+="$2${LFBFL_last_line:$LFBFL_length2}"
331     fi
332   fi
333 }
334
335 repeated_split_last_line() {
336   declare -g repeated_split_last_line_result="$1"
337   local LFBFL_i
338   for ((LFBFL_i=0; LFBFL_i<$6; ++LFBFL_i)) do
339     split_last_line "${repeated_split_last_line_result}" "$2" "$3" \
340     "$4" "$5" "$6" "$7"
341     repeated_split_last_line_result="${split_last_line_result}"
342     # echo "${split_last_line_result}"
343   done
344 }

```

2.37 build_and_checks_dependencies/too_long_code_lines.libr.sh

```

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```

```

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24 # This file was renamed from "too_long_code_lines.sh"
25 # to "too_long_code_lines.libr.sh".
26
27 LFBFL_subdir="build_and_checks_dependencies"
28 # shellcheck disable=SC1090
29 source "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
30
31 too_long_code_lines(){
32     get_COMMON_TEXT_FILES_GLOB_PATTERNS
33     local LFBFL_pattern
34     local LFBFL_file_name
35     local LFBFL_line
36     local LFBFL_extension
37     local LFBFL_base_name
38     # shellcheck disable=SC2154
39     for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
40         [[ "$1" != "-v" ]]\
41             || echo "Iterating on pattern: ${LFBFL_pattern}"
42     # shellcheck disable=SC2312
43     find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
44         | xargs grep -H '\{71\}' | while read -r LFBFL_long_line
45     do
46         LFBFL_file_name=${LFBFL_long_line%%:*}
47         LFBFL_line=${LFBFL_long_line#*:}
48         LFBFL_line="${LFBFL_line%\*/}"
49         LFBFL_extension=${LFBFL_file_name##*.}
50         LFBFL_base_name=${LFBFL_file_name%.*}
51         if [[ "${LFBFL_extension}" == "html" ]]; then
52             if [[ -f "${LFBFL_base_name}.md" ]]; then
53                 continue
54             fi
55             if grep --quiet --fixed-strings "${LFBFL_line}"\
56                 "./build_and_checks_variables/temp/files_listing.html.tpl"
57             then
58                 continue
59             fi
60             echo "${LFBFL_long_line}"
61         elif [[ "${LFBFL_extension}" == "md" ]]; then
62             if ! [[ -f "${LFBFL_base_name}.md.tpl" ]]; then
63                 echo "${LFBFL_long_line}"
64             fi
65         else

```

```

66         echo "${LFBFL_long_line}"
67     fi
68     done
69 done
70 }

```

2.38 build_and_checks_dependencies/update_common_build_and_checks.exec.sh

```

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24 # This file was renamed from "update_common_build_and_checks.sh"
25 # to "update_common_build_and_checks.exec.sh".
26 #
27 # shellcheck disable=SC1091
28 source "overwrite_if_not_equal.libr.sh"
29
30 update_common_build_and_checks() {
31     declare -i LFBFL_verbose=0
32     if [[ "$1" == "--verbose" ]]; then
33         echo "$0 $*"
34         LFBFL_verbose="--verbose"
35     fi
36     # shellcheck disable=SC2034
37     readonly LFBFL_verbose
38 }

```

```

39 declare -r LFBFL_common_file_name="common_build_and_checks.exec.sh"
40 cp "./${LFBFL_common_file_name}.tpl"\'
41     "./${LFBFL_common_file_name}.temp"
42
43 declare -r LFBFL_file_names=(\
44     "build_md_from_printable_md.exec.sh"\'
45     "check_shell_scripts_beginnings.libr.sh"\'
46     "check_URLs.libr.sh"\'
47     "comparisons.libr.sh"\'
48     "create_PDF.exec.sh"\'
49     "generate_from_template.libr.sh"\'
50     "get_common_text_glob_patterns.libr.sh"\'
51     "grammar_and_spell_check.libr.sh"\'
52     "licenses_templates/build_licenses_templates.exec.sh"\'
53     "licenses_templates/license_file_header_AGPLv3+.tpl"\'
54     "licenses_templates/license_file_header_GPLv3+.tpl"\'
55     "licenses_templates/license_file_header_LGPLv3+.tpl"\'
56     "lines_counts.libr.sh"\'
57     "lines_filters.libr.sh"\'
58     "lines_maps.libr.sh"\'
59     "update_or_check_files_names_listing.exec.sh"\'
60     "overwrite_if_not_equal.libr.sh"\'
61     "python_black_complement.libr.sh"\'
62     "python_isort_complement.libr.sh"\'
63     "split_score.exec.php"\'
64     "split_score.libr.php"\'
65     "strings_functions.libr.sh"\'
66     "too_long_code_lines.libr.sh"\'
67 )
68
69 local LFBFL_file_name
70 local LFBFL_file_sha512
71 local LFBFL_file_sha512_all
72 local LFBFL_base_file_name
73 for LFBFL_file_name in "${LFBFL_file_names[@]}"; do
74     # shellcheck disable=SC2312
75     LFBFL_file_sha512=$(
76         sha512sum "./${LFBFL_file_name}" | cut -f1 -d' '
77     )
78     LFBFL_file_sha512_all="local LFBFL_correct_sha512\n"
79     LFBFL_file_sha512_all+="    LFBFL_correct_sha512="
80     LFBFL_file_sha512_all+="'${LFBFL_file_sha512:0:45}'\n"
81     LFBFL_file_sha512_all+="    LFBFL_correct_sha512+="
82     LFBFL_file_sha512_all+="'${LFBFL_file_sha512:45:44}'\n"
83     LFBFL_file_sha512_all+="    LFBFL_correct_sha512+="
84     LFBFL_file_sha512_all+="'${LFBFL_file_sha512:89}'"

```

```

85 LFBFL_base_file_name=$(basename "${LFBFL_file_name}")
86 sed -i \
87 "s|@sha512_${LFBFL_base_file_name}|${LFBFL_file_sha512_all}|g" \
88 "./${LFBFL_common_file_name}.temp"
89 done
90
91 overwrite_if_not_equal "./${LFBFL_common_file_name}" \
92 "./${LFBFL_common_file_name}.temp"
93
94 declare -r LFBFL_main_file_name="build_and_checks.exec.sh"
95 cp "./${LFBFL_main_file_name}.tpl" "../${LFBFL_main_file_name}.temp"
96
97 # shellcheck disable=SC2312
98 LFBFL_file_sha512=$(
99     sha512sum "./${LFBFL_common_file_name}" | cut -f1 -d' '
100 )
101 LFBFL_file_sha512_all="local LFBFL_correct_sha512\n"
102 LFBFL_file_sha512_all+=" LFBFL_correct_sha512="
103 LFBFL_file_sha512_all+=" ${LFBFL_file_sha512:0:45}\n"
104 LFBFL_file_sha512_all+=" LFBFL_correct_sha512\+="
105 LFBFL_file_sha512_all+=" ${LFBFL_file_sha512:45:44}\n"
106 LFBFL_file_sha512_all+=" LFBFL_correct_sha512\+="
107 LFBFL_file_sha512_all+=" ${LFBFL_file_sha512:89}\n"
108 sed -i \
109 "s|@sha512_${LFBFL_common_file_name}|${LFBFL_file_sha512_all}|g" \
110 "../${LFBFL_main_file_name}.temp"
111
112 overwrite_if_not_equal "../${LFBFL_main_file_name}" \
113 "../${LFBFL_main_file_name}.temp"
114 }
115
116 update_common_build_and_checks "$@"

```

2.39 build_and_checks_dependencies/update_or_check_files_names_listing.exec.sh

```

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22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 #
25 # 2025-12-30T21:33+01:00: This file was moved from
26 # "./build_and_checks_dependencies/listings"
27 # to
28 # "./build_and_checks_dependencies".
29 # This file was renamed from "update_or_check_files_names_listing.sh"
30 # to "update_or_check_files_names_listing.exec.sh".
31 # This file was renamed from "update_or_check_file_names_listing.sh"
32 # to "update_or_check_files_names_listing.sh"?
33 #
34 LFBFL_verbose=""
35 if [[ "$2" == "--verbose" ]]; then
36     echo "$0 $*"
37     LFBFL_verbose="--verbose"
38 fi
39 readonly LFBFL_verbose
40
41 LFBFL_subdir="build_and_checks_dependencies"
42 # shellcheck disable=SC1090
43 source "./${LFBFL_subdir}/lines_filters.libr.sh"
44 # shellcheck disable=SC1090
45 source "./${LFBFL_subdir}/strings_functions.libr.sh"
46 LFBFL_subdir2="build_and_checks_variables"
47 files_names_listing="./${LFBFL_subdir2}/files_names_listing.txt"
48
49 if [[ "$1" == "--write" ]]; then
50     : > "${files_names_listing}"
51 fi
52 sed_expression='s/\\n//Mg'
53 sed -Ez "${sed_expression}" "${files_names_listing}" \
54     > "${files_names_listing}.temp1"
55 sed -Ez "${sed_expression}" "${files_names_listing}.temp1" \
56     > "${files_names_listing}.temp2"
57 sed -Ez "${sed_expression}" "${files_names_listing}.temp2" \

```

```

58      > "${files_names_listing}.temp3"
59      sed -Ez "${sed_expression}" "${files_names_listing}.temp3" \
60      > "${files_names_listing}.temp4"
61      shopt -s dotglob
62      get_split_score_simple 1 70 /
63      # shellcheck disable=SC2154
64      split_score_command="${get_split_score_result}"
65      # shellcheck disable=SC2154
66      split_score_command_properties="${get_split_score_result2}"
67      # shellcheck disable=SC1003
68      suffix='\\'
69      # shellcheck disable=SC2312
70      find . -type f -printf '%P\n' | relevant_find | sort \
71          | while read -r file_name;
72      do
73          git check-ignore -q "${file_name}" && continue
74          base_file_name=$(basename "${file_name}")
75          [[ "${base_file_name}" != "files_names_listing.txt.temp1" ]] \
76          || continue
77          [[ "${base_file_name}" != "files_names_listing.txt.temp2" ]] \
78          || continue
79          [[ "${base_file_name}" != "files_names_listing.txt.temp3" ]] \
80          || continue
81          [[ "${base_file_name}" != "files_names_listing.txt.temp4" ]] \
82          || continue
83          if [[ "${base_file_name}" == *.md ]]; then
84              if [[ -f "${file_name}.tpl" ]]; then
85                  continue
86              fi
87          fi
88          repeated_split_last_line "${file_name}" "" 70 "${suffix}" \
89          "${split_score_command}" "${split_score_command_properties}"
90          # shellcheck disable=SC2154
91          split_file_name="${repeated_split_last_line_result}"
92          if [[ "$1" == "--write" ]]; then
93              # shellcheck disable=SC2001
94              echo "${file_name}" \
95                  | sed -e "s|${file_name}|${split_file_name}|g" \
96                  >> "${files_names_listing}"
97              continue
98          fi
99          if grep -q "${file_name}\$" "${files_names_listing}.temp4"; then
100             :
101         else
102             echo\
103                 "The file ${file_name} is not listed in ${files_names_listing}.""

```

```

104     if [ [ "$1" == "--append" ]]; then
105         # shellcheck disable=SC2001
106         echo "${file_name}" \
107             | sed -e\
108                 "s|${file_name}|${split_file_name}|g" \
109             >> "${files_names_listing}"
110     fi
111 fi
112 done
113
114 # shellcheck disable=SC2002,2312
115 cat "${files_names_listing}.temp4" | while read -r file_name;
116 do
117     [[ "${file_name}" != '/*' ]] || continue
118     base_file_name=$(basename "${file_name}")
119     if ! [[ -f "${file_name}" ]]; then
120         echo \
121             "The non-file ${file_name} is listed in ${files_names_listing}."
122     fi
123 done
124
125 rm "${files_names_listing}.temp1" "${files_names_listing}.temp2" \
126     "${files_names_listing}.temp3" "${files_names_listing}.temp4"
127 shopt -u dotglob
128 shopt -s globstar
129
130 if [ [ -n "${LFBFL_verbose}" ]]; then
131     cat "${files_names_listing}"
132 fi

```

2.40 build_and_checks_variables/.gitignore

```

1 temp/
2 upgrade_venvs_ts
3

```

2.41 build_and_checks_variables/bandit.ini

```

1 # FILE: .bandit
2 [bandit]

```

2.42 build_and_checks_variables/bandit_baseline.json

```

1 {"results": []}

```

2.43 build_and_checks_variables/DevOrSysAdminScripts.html.tpl

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <!--
4  This file is part of DevOrSysAdminScripts library.
5
6  DevOrSysAdminScripts is free software:
7  you can redistribute it and/or modify it under the terms
8  of the GNU Lesser General Public License
9  as published by the Free Software Foundation,
10 either version 3 of the License,
11 or (at your option) any later version.
12
13 DevOrSysAdminScripts is distributed in the hope
14 that it will be useful,
15 but WITHOUT ANY WARRANTY;
16 without even the implied warranty of
17 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
18 See the GNU Lesser General Public License for more details.
19
20 You should have received a copy of
21 the GNU Lesser General Public License
22 along with DevOrSysAdminScripts.
23 If not, see <https://www.gnu.org/licenses/>.
24
25 ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
26 -->
27 <head>
28 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
29 <meta name="generator" content="DevOrSysAdminScripts">
30 <style type="text/css">
31   .title{
32     margin: 2ex auto;
33     text-align: center;
34   }
35   .titlemain{
36     margin: 1ex 2ex 2ex 1ex;
37   }
38   .titlerest{
39     margin: 0ex 2ex;
40   }
41   table{
42     border-collapse: collapse;
43   }
44   td{
```

```

45     padding: 0;
46 }
47 pre{
48     text-align: left;
49     margin-left: 0ex;
50     margin-right: auto;
51 }
52 pre.numbered_lines:before{
53     background: snow;
54     border-right: 1px black solid;
55     color: #010101;
56     content: attr(line-numbers);
57     float: left;
58     padding: 0 1ch;
59     text-align: right;
60 }
61 blockquote{
62     margin-left: 4ex;
63     margin-right: 4ex;
64     text-align: left;
65 }
66 ol.level1, ol.level2{
67     list-style-type: none;
68     /*
69     list-style-type: decimal;
70     Previous rule is shorter and more efficient if you need only level1.
71     But you don't have accessible counter if you use decimal.
72     */
73 }
74 ol.level1{
75     counter-reset: level1;
76 }
77 ol.level2{
78     counter-reset: level2;
79 }
80 ol.level1 li:before{
81     content: counter(level1) ". ";
82     counter-increment: level1;
83 }
84 ol.level2 li:before{
85     content: counter(level1) "." counter(level2) " ";
86     counter-increment: level2;
87 }
88 </style>
89 <title>@repository_name@</title>
90 </head>
```

```

91  <body >
92  <table class="title">
93  <tr>
94  <td style="padding:1ex">
95      <h1 class="titlemain">@repository_name@</h1>
96      <h3 class="titlerest">
97          @author_full_name@
98          <br>
99          <a href="@author_website@">
100             <span style="font-family:monospace">
101                 @author_website@
102             </span>
103         </a>
104         <br>
105         <a href="mailto:@author_email@">
106             <span style="font-family:monospace">
107                 @author_email@
108             </span>
109         </a>
110     </h3>
111     </td>
112 </tr>
113 </table>
114
115 <blockquote class="abstract">
116     <span style="font-weight:bold">Abstract:</span>
117     @abstract@
118 </blockquote>
119 <p>Current version: @current_date@</p>
120 <p>Current number of commits: @number_of_commits@</p>
121 <p>Current git SHA1: @current_git_SHA1@</p>
122 <p>
123 Code lines: @number_of_lines@
124 </p>
125
126
127 <h2>Contents</h2>
128
129 <ol class="level1">
130     <li><a href="#section1">Files Tree</a></li>
131     <li><a href="#section2">Listing of files</a><br>
132         <ol class="level2">
133             @files_lis@
134         </ol>
135     </li>
136 </ol>

```

```

137
138
139 <h2 id="section1">1 Files tree</h2>
140 <pre class="verbatim">
141 @current_tree_light@
142 </pre>
143 <pre class="verbatim">
144 @current_tree@
145 </pre>
146
147
148 <h2 id="section2">2 Listing of files</h2>
149
150 <p>
151 This repository is dual licensed.
152 All the Bash scripts source code is covered by GPLv3+.
153 All the PHP scripts source code is covered by LGPLv3+.
154 </p>
155
156 <p>
157 The text of the licenses is available at:
158 <a href="https://www.gnu.org/licenses/"><span
159   style="font-family:monospace"
160 >https://www.gnu.org/licenses/</span></a>.
161 The git repository of this source code is also available at:
162 <a href="https://github.com/LLyaudet/@repository_name@/"><span
163   style="font-family:monospace"
164 >https://github.com/LLyaudet/@repository_name@/</span></a>.
165 </p>
166
167 <p>
168 Here is a listing of the dependencies of the code in this repository:
169 <ul>
170 <li> The following dependencies are GPLv3+ licensed:<br>
171 basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,
172 dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,
173 shellcheck, sort, tail, wc, wget, xargs
174 <li> The following dependencies are GPLv2+ licensed:<br>
175 more, pandoc, pdftex, pdflatex, tree
176 <li> The following dependencies are GPLv2 licensed:<br>
177 git, pylint
178 <li> The following dependencies are LGPLv2.1+ licensed:<br>
179 notify-send
180 <li> The following dependencies are MIT licensed:<br>
181 black, isort, mypy
182 <li> The following dependencies are Apache-2.0 licensed:<br>
```

```

183 bandit
184 <li> php is licensed under PHP License v3.01
185 <li> tex is licensed under Knuth license
186 <li> pcregrep has a custom license from Cambridge University
187 </ul>
188 </p>
189
190 <p>
191 Remark: Some commands listed under GPLv3+ are POSIX
192 and can have different implementations under another license;
193 for example, uutils coreutils is MIT licensed,
194 whilst GNU coreutils is GPLv3+ licensed.
195 </p>
196
197 @files_listing_HTMLPreInput@
198
199 <p>
200 @acknowledgments@
201 </p>
202
203 <script>
204 "use strict";
205 const pres = Array.from(
206   document.getElementsByClassName('numbered_lines')
207 );
208 pres.forEach(
209   (pre) => {
210     const nb = Array.from(pre.innerText.matchAll("\n")).length + 1;
211     let numbers = "";
212     for(let i = 1; i <= nb; ++i){
213       numbers += i.toString();
214       if(i < nb){ numbers += "\n ";}
215     }
216     pre.setAttribute('line-numbers', numbers);
217   }
218 );
219 </script>
220 </html>

```

2.44 build_and_checks_variables/DevOrSysAdminScripts.tex.tpl

```

1 % This file is part of DevOrSysAdminScripts library.
2 %
3 % DevOrSysAdminScripts is free software:
4 % you can redistribute it and/or modify it under the terms
5 % of the GNU Lesser General Public License

```

```

6  % as published by the Free Software Foundation,
7  % either version 3 of the License,
8  % or (at your option) any later version.
9  %
10 % DevOrSysAdminScripts is distributed in the hope
11 % that it will be useful,
12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU Lesser General Public License for more details.
16 %
17 % You should have received a copy of
18 % the GNU Lesser General Public License
19 % along with DevOrSysAdminScripts.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
23
24 % 2025-12-29T17:08+01:00: This file was moved from
25 % "./latex"
26 % to
27 % "./build_and_checks_variables".
28
29 \documentclass{article}
30
31 \usepackage[utf8]{inputenc}
32 \usepackage[T1]{fontenc}
33 \usepackage{subfigure}
34 \usepackage{amsmath}
35 \usepackage{amssymb}
36 \usepackage{amsthm}
37 \usepackage[pdfTEX]{hyperref}
38 \usepackage{tikz}
39 \usepackage{caption}
40 \usepackage[round]{natbib}
41 \usepackage{fancyhdr}
42 \usepackage{amsfonts}
43 \usepackage{times}
44 \usepackage{ifpdf}
45 \usepackage{latexsym}
46 \usepackage{graphicx}
47 \usepackage{enumerate}
48 \usepackage{pmbboxdraw}
49 \usepackage{fancyvrb}
50 \usepackage[french,english]{babel}
51

```

```

52  % *** les environnements ***
53  %\theoremstyle{break}
54  \newtheorem{definition}{Definition}[section]
55  \newtheorem{proposition}[definition]{Proposition}
56  \newtheorem{theorem}[definition]{Theorem}
57  \newtheorem{lemma}[definition]{Lemma}
58  \newtheorem{corollary}[definition]{Corollary}
59  \newtheorem{remark}[definition]{Remark}
60  \newtheorem{openproblem}[definition]{Open problem}
61
62 \begin{document}
63
64 \author{
65   @author_full_name@\\
66   \url{@author_website@}\\
67   \href{mailto:@author_email@}{@author_email@}
68 }
69 \title{@repository_name@}
70
71 \maketitle
72 \begin{abstract}
73 @abstract@
74 \end{abstract}
75
76 Current version: @current_date@
77
78 Current number of commits: @number_of_commits@
79
80 Current git SHA1: @current_git_SHA1@
81
82 Code lines: @number_of_lines@
83
84 \tableofcontents
85 \newpage
86
87 \section{Files tree}
88 \label{section:tree}
89
90 \begin{verbatim}
91 @current_tree_light@
92 \end{verbatim}
93
94 \begin{verbatim}
95 @current_tree@
96 \end{verbatim}
97

```

```

98 \section{Listing of files}
99 \label{section:listing}
100
101 This repository is dual licensed.
102 All the Bash scripts source code is covered by GPLv3+.
103 All the PHP scripts source code is covered by LGPLv3+.
104
105 The text of the licenses is available at:
106 \url{https://www.gnu.org/licenses/}.
107 The git repository of this source code is also available at:
108 \url{https://github.com/LLyaudet/@repository_name@/}.
109
110 Here is a listing of the dependencies of the code in this repository:
111 \begin{itemize}
112 \item The following dependencies are GPLv3+ licensed:\newline
113 basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,
114 dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,
115 shellcheck, sort, tail, wc, wget, xargs
116 \item The following dependencies are GPLv2+ licensed:\newline
117 more, pandoc, pdftex, pdflatex, tree
118 \item The following dependencies are GPLv2 licensed:\newline
119 git, pylint
120 \item The following dependencies are LGPLv2.1+ licensed:\newline
121 notify-send
122 \item The following dependencies are MIT licensed:\newline
123 black, isort, mypy
124 \item The following dependencies are Apache-2.0 licensed:\newline
125 bandit
126 \item php is licensed under PHP License v3.01
127 \item tex is licensed under Knuth license
128 \item pcregrep has a custom license from Cambridge University
129 \end{itemize}
130
131 Remark: Some commands listed under GPLv3+ are POSIX
132 and can have different implementations under another license;
133 for example, uutils coreutils is MIT licensed,
134 whilst GNU coreutils is GPLv3+ licensed.
135
136 @files_listing_VerbatimInput@
137
138 @acknowledgments@
139
140 \end{document}

```

2.45 build_and_checks_variables/files_listing.tex.tpl

```
1 \subsection{  
2     build\_\_and\_\_checks\_\_dependencies/build\_\_and\_\_checks.exec.sh.tpl  
3 }  
4 \label{  
5     build_and_checks_dependencies:build_and_checksexecshtpl  
6 }  
7  
8 \VerbatimInput [numbers=left,xleftmargin=-5mm] {  
9 build_and_checks_dependencies/build_and_checks.exec.sh.tpl  
10 }  
11  
12  
13 \subsection{  
14     build\_\_and\_\_checks\_\_dependencies/%  
15 build\_\_md\_\_from\_\_printable\_\_md.exec.sh  
16 }  
17 \label{  
18     build_and_checks_dependencies:build_md_from_printable_mdexecsh  
19 }  
20  
21 \VerbatimInput [numbers=left,xleftmargin=-5mm] {  
22 build_and_checks_dependencies/build_md_from_printable_md.exec.sh  
23 }  
24  
25  
26 \subsection{  
27     build\_\_and\_\_checks\_\_dependencies/%  
28 check\_\_shell\_\_scripts\_\_beginnings.libr.sh  
29 }  
30 \label{  
31     build_and_checks_dependencies:check_shell_scripts_beginningslibrsh  
32 }  
33  
34 \VerbatimInput [numbers=left,xleftmargin=-5mm] {  
35 build_and_checks_dependencies/check_shell_scripts_beginnings.libr.sh  
36 }  
37  
38  
39 \subsection{  
40     build\_\_and\_\_checks\_\_dependencies/check\_\_URLs.libr.sh  
41 }  
42 \label{  
43     build_and_checks_dependencies:check_URLslibrsh  
44 }
```

```

45
46 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
47 build_and_checks_dependencies/check_URLs.libr.sh
48 }
49
50
51 \subsection{
52   build\_\_and\_\_checks\_\_dependencies/common\_build\_\_and\_\_checks.exec.sh
53 }
54 \label{
55   build_and_checks_dependencies:common_build_and_checksexecsh
56 }
57
58 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
59 build_and_checks_dependencies/common_build_and_checks.exec.sh
60 }
61
62
63 \subsection{
64   build\_\_and\_\_checks\_\_dependencies/%
65 common\_build\_\_and\_\_checks.exec.sh.tpl
66 }
67 \label{
68   build_and_checks_dependencies:common_build_and_checksexecstpl
69 }
70
71 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
72 build_and_checks_dependencies/common_build_and_checks.exec.sh.tpl
73 }
74
75
76 \subsection{
77   build\_\_and\_\_checks\_\_dependencies/comparisons.libr.sh
78 }
79 \label{
80   build_and_checks_dependencies:comparisonslibrsh
81 }
82
83 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
84 build_and_checks_dependencies/comparisons.libr.sh
85 }
86
87
88 \subsection{
89   build\_\_and\_\_checks\_\_dependencies/create\_PDF.exec.sh
90 }

```

```

91 \label{
92   build_and_checks_dependencies:create_PDFexecsh
93 }
94
95 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
96 build_and_checks_dependencies/create_PDF.exec.sh
97 }
98
99
100 \subsection{
101   build_and_checks_dependencies/generate_from_template.libr.sh
102 }
103 \label{
104   build_and_checks_dependencies:generate_from_templatelibrsh
105 }
106
107 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
108 build_and_checks_dependencies/generate_from_template.libr.sh
109 }
110
111
112 \subsection{
113   build_and_checks_dependencies/%
114 get_common_text_glob_patterns.libr.sh
115 }
116 \label{
117   build_and_checks_dependencies:get_common_text_glob_patternslibrsh
118 }
119
120 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
121 build_and_checks_dependencies/get_common_text_glob_patterns.libr.sh
122 }
123
124
125 \subsection{
126   build_and_checks_dependencies/grammar_and_spell_check.libr.sh
127 }
128 \label{
129   build_and_checks_dependencies:grammar_and_spell_checklibrsh
130 }
131
132 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
133 build_and_checks_dependencies/grammar_and_spell_check.libr.sh
134 }
135
136

```

```

137 \subsection{
138     build\_and\_checks\_dependencies/licenses\_templates/%
139 build\_licenses\_templates.exec.sh
140 }
141 \label{
142     build_and_checks_dependencies:licenses_templates:%
143 build_licenses_templatesexecsh
144 }
145
146 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
147 build_and_checks_dependencies/licenses_templates/%
148 build_licenses_templates.exec.sh
149 }
150
151
152 \subsection{
153     build\_and\_checks\_dependencies/licenses\_templates/%
154 license\_file\_header\_AGPLv3+.c.tpl
155 }
156 \label{
157     build_and_checks_dependencies:licenses_templates:%
158 license_file_header_AGPLv3+ctpl
159 }
160
161 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
162 build_and_checks_dependencies/licenses_templates/%
163 license_file_header_AGPLv3+.c.tpl
164 }
165
166
167 \subsection{
168     build\_and\_checks\_dependencies/licenses\_templates/%
169 license\_file\_header\_AGPLv3+.py.tpl
170 }
171 \label{
172     build_and_checks_dependencies:licenses_templates:%
173 license_file_header_AGPLv3+pytpl
174 }
175
176 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
177 build_and_checks_dependencies/licenses_templates/%
178 license_file_header_AGPLv3+.py.tpl
179 }
180
181
182 \subsection{

```

```

183     build\_and\_checks\_dependencies/licenses\_templates/%
184     license\_file\_header\_AGPLv3+.sh.tpl
185 }
186 \label{
187     build_and_checks_dependencies:licenses_templates:%
188     license_file_header_AGPLv3+shtml
189 }
190
191 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
192 build_and_checks_dependencies/licenses_templates/%
193     license_file_header_AGPLv3+.sh.tpl
194 }
195
196
197 \subsection{
198     build\_and\_checks\_dependencies/licenses\_templates/%
199     license\_file\_header\_AGPLv3+.tex.tpl
200 }
201 \label{
202     build_and_checks_dependencies:licenses_templates:%
203     license_file_header_AGPLv3+texttpl
204 }
205
206 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
207 build_and_checks_dependencies/licenses_templates/%
208     license_file_header_AGPLv3+.tex.tpl
209 }
210
211
212 \subsection{
213     build\_and\_checks\_dependencies/licenses\_templates/%
214     license\_file\_header\_AGPLv3+.tpl
215 }
216 \label{
217     build_and_checks_dependencies:licenses_templates:%
218     license_file_header_AGPLv3+tpl
219 }
220
221 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
222 build_and_checks_dependencies/licenses_templates/%
223     license_file_header_AGPLv3+.tpl
224 }
225
226
227 \subsection{
228     build\_and\_checks\_dependencies/licenses\_templates/%

```

```

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

```

```

275 }
276 \label{
277   build_and_checks_dependencies:licenses_templates:%
278   license_file_header_GPLv3+textpl
279 }
280
281 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
282 build_and_checks_dependencies/licenses_templates/%
283 license_file_header_GPLv3+.tex.tpl
284 }
285
286
287 \subsection{
288   build_and_checks_dependencies/licenses_templates/%
289   license_file_header_GPLv3+.tpl
290 }
291 \label{
292   build_and_checks_dependencies:licenses_templates:%
293   license_file_header_GPLv3+tpl
294 }
295
296 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
297 build_and_checks_dependencies/licenses_templates/%
298 license_file_header_GPLv3+.tpl
299 }
300
301
302 \subsection{
303   build_and_checks_dependencies/licenses_templates/%
304   license_file_header_LGPLv3+.c.tpl
305 }
306 \label{
307   build_and_checks_dependencies:licenses_templates:%
308   license_file_header_LGPLv3+ctpl
309 }
310
311 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
312 build_and_checks_dependencies/licenses_templates/%
313 license_file_header_LGPLv3+.c.tpl
314 }
315
316
317 \subsection{
318   build_and_checks_dependencies/licenses_templates/%
319   license_file_header_LGPLv3+.py.tpl
320 }

```

```

321 \label{
322   build_and_checks_dependencies:licenses_templates:%
323   license_file_header_LGPLv3+pytpl
324 }
325
326 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
327 build_and_checks_dependencies/licenses_templates/%
328 license_file_header_LGPLv3+.py.tpl
329 }
330
331
332 \subsection{
333   build_and_checks_dependencies/licenses_templates/%
334   license_file_header_LGPLv3+.sh.tpl
335 }
336 \label{
337   build_and_checks_dependencies:licenses_templates:%
338   license_file_header_LGPLv3+shtpl
339 }
340
341 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
342 build_and_checks_dependencies/licenses_templates/%
343 license_file_header_LGPLv3+.sh.tpl
344 }
345
346
347 \subsection{
348   build_and_checks_dependencies/licenses_templates/%
349   license_file_header_LGPLv3+.tex.tpl
350 }
351 \label{
352   build_and_checks_dependencies:licenses_templates:%
353   license_file_header_LGPLv3+texttpl
354 }
355
356 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
357 build_and_checks_dependencies/licenses_templates/%
358 license_file_header_LGPLv3+.tex.tpl
359 }
360
361
362 \subsection{
363   build_and_checks_dependencies/licenses_templates/%
364   license_file_header_LGPLv3+.tpl
365 }
366 \label{

```

```

367     build_and_checks_dependencies:licenses_templates:%
368     license_file_header_LGPLv3+tpl
369   }
370
371   \VerbatimInput [numbers=left,xleftmargin=-5mm] {
372 build_and_checks_dependencies/licenses_templates/%
373 license_file_header_LGPLv3+.tpl
374 }
375
376
377 \subsection{
378   build\_\_and\_\_checks\_\_dependencies/lines\_counts.libr.sh
379 }
380 \label{
381   build_and_checks_dependencies:lines_countslibrsh
382 }
383
384 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
385 build_and_checks_dependencies/lines_counts.libr.sh
386 }
387
388
389 \subsection{
390   build\_\_and\_\_checks\_\_dependencies/lines\_filters.libr.sh
391 }
392 \label{
393   build_and_checks_dependencies:lines_filterslibrsh
394 }
395
396 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
397 build_and_checks_dependencies/lines_filters.libr.sh
398 }
399
400
401 \subsection{
402   build\_\_and\_\_checks\_\_dependencies/lines\_maps.libr.sh
403 }
404 \label{
405   build_and_checks_dependencies:lines_mapslibrsh
406 }
407
408 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
409 build_and_checks_dependencies/lines_maps.libr.sh
410 }
411
412

```

```

413 \subsection{
414     build\_and\_checks\_dependencies/overwrite\_if\_not\_equal.libr.sh
415 }
416 \label{
417     build_and_checks_dependencies:overwrite_if_not_equallibrsh
418 }
419
420 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
421 build_and_checks_dependencies/overwrite_if_not_equal.libr.sh
422 }
423
424
425 \subsection{
426     build\_and\_checks\_dependencies/python\_black\_complement.libr.sh
427 }
428 \label{
429     build_and_checks_dependencies:python_black_complementlibrsh
430 }
431
432 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
433 build_and_checks_dependencies/python_black_complement.libr.sh
434 }
435
436
437 \subsection{
438     build\_and\_checks\_dependencies/python\_isort\_complement.libr.sh
439 }
440 \label{
441     build_and_checks_dependencies:python_isort_complementlibrsh
442 }
443
444 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
445 build_and_checks_dependencies/python_isort_complement.libr.sh
446 }
447
448
449 \subsection{
450     build\_and\_checks\_dependencies/split\_score.exec.php
451 }
452 \label{
453     build_and_checks_dependencies:split_scoreexecphp
454 }
455
456 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
457 build_and_checks_dependencies/split_score.exec.php
458 }

```

```

459
460
461 \subsection{
462     build\_and\_checks\_dependencies/split\_score.libr.php
463 }
464 \label{
465     build_and_checks_dependencies:split_scorelibrphp
466 }
467
468 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
469 build_and_checks_dependencies/split_score.libr.php
470 }
471
472
473 \subsection{
474     build\_and\_checks\_dependencies/strings\_functions.libr.sh
475 }
476 \label{
477     build_and_checks_dependencies:strings_functionslibrsh
478 }
479
480 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
481 build_and_checks_dependencies/strings_functions.libr.sh
482 }
483
484
485 \subsection{
486     build\_and\_checks\_dependencies/too\_long\_code\_lines.libr.sh
487 }
488 \label{
489     build_and_checks_dependencies:too_long_code_lineslibrsh
490 }
491
492 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
493 build_and_checks_dependencies/too_long_code_lines.libr.sh
494 }
495
496
497 \subsection{
498     build\_and\_checks\_dependencies/%
499 update\_common\_build\_and\_checks.exec.sh
500 }
501 \label{
502     build_and_checks_dependencies:update_common_build_and_checksexecsh
503 }
504

```

```

505 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
506 build_and_checks_dependencies/update_common_build_and_checks.exec.sh
507 }
508
509
510 \subsection{
511     build_and_checks_dependencies/%
512 update\_or\_check\_files\_names\_listing.exec.sh
513 }
514 \label{
515     build_and_checks_dependencies:%
516 update_or_check_files_names_listingexecsh
517 }
518
519 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
520 build_and_checks_dependencies/%
521 update_or_check_files_names_listing.exec.sh
522 }
523
524
525 \subsection{
526     build_and_checks_variables/.gitignore
527 }
528 \label{
529     build_and_checks_variables:gitignore
530 }
531
532 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
533 build_and_checks_variables/.gitignore
534 }
535
536
537 \subsection{
538     build_and_checks_variables/bandit.ini
539 }
540 \label{
541     build_and_checks_variables:banditini
542 }
543
544 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
545 build_and_checks_variables/bandit.ini
546 }
547
548
549 \subsection{
550     build_and_checks_variables/bandit\_\_baseline.json

```

```

551 }
552 \label{
553   build_and_checks_variables:bandit_baselinejson
554 }
555
556 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
557 build_and_checks_variables/bandit_baseline.json
558 }
559
560
561 \subsection{
562   build\_\_and\_\_checks\_\_variables/DevOrSysAdminScripts.html.tpl
563 }
564 \label{
565   build_and_checks_variables:DevOrSysAdminScriptsshtmltpl
566 }
567
568 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
569 build_and_checks_variables/DevOrSysAdminScripts.html.tpl
570 }
571
572
573 \subsection{
574   build\_\_and\_\_checks\_\_variables/DevOrSysAdminScripts.tex.tpl
575 }
576 \label{
577   build_and_checks_variables:DevOrSysAdminScriptstexttpl
578 }
579
580 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
581 build_and_checks_variables/DevOrSysAdminScripts.tex.tpl
582 }
583
584
585 \subsection{
586   build\_\_and\_\_checks\_\_variables/files\_listing.tex.tpl
587 }
588 \label{
589   build_and_checks_variables:files_listingtexttpl
590 }
591
592 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
593 build_and_checks_variables/files_listing.tex.tpl
594 }
595
596

```

```

597 \subsection{
598     build\_and\_checks\_variables/files\_names\_listing.txt
599 }
600 \label{
601     build_and_checks_variables:files_names_listingtxt
602 }
603
604 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
605 build_and_checks_variables/files_names_listing.txt
606 }
607
608
609 \subsection{
610     build\_and\_checks\_variables/licenses/_notes.txt
611 }
612 \label{
613     build_and_checks_variables:licenses_notestxt
614 }
615
616 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
617 build_and_checks_variables/licenses_notes.txt
618 }
619
620
621 \subsection{
622     build\_and\_checks\_variables/pylintrc.toml
623 }
624 \label{
625     build_and_checks_variables:pylintrctoml
626 }
627
628 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
629 build_and_checks_variables/pylintrc.toml
630 }
631
632
633 \subsection{
634     build\_and\_checks\_variables/repository\_data.txt
635 }
636 \label{
637     build_and_checks_variables:repository_datatxt
638 }
639
640 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
641 build_and_checks_variables/repository_data.txt
642 }

```

```

643
644 \subsection{
645     build\_and\_checks.exec.sh
646 }
647 \label{
648     build_and_checksexecsh
649 }
650 }
651
652 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
653 build_and_checks.exec.sh
654 }
655
656
657 \subsection{
658     COPYING
659 }
660 \label{
661     COPYING
662 }
663
664 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
665 COPYING
666 }
667
668
669 \subsection{
670     COPYING.LESSER
671 }
672 \label{
673     COPYINGLESSER
674 }
675
676 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
677 COPYING.LESSER
678 }
679
680
681 \subsection{
682     git\_helpers/git\_checks.libr.sh
683 }
684 \label{
685     git_helpers:git_checkslibrsh
686 }
687
688 \VerbatimInput [numbers=left,xleftmargin=-5mm] {

```

```

689 git_helpers/git_checks.libr.sh
690 }
691
692 \subsection{
693     git\_helpers/post-commit
694 }
695 \label{
696     git_helpers:post-commit
697 }
698
699 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
700 git_helpers/post-commit
701 }
702
703
704 \subsection{
705     git\_helpers/post\_commit\_renaming\_comment.libr.sh
706 }
707 \label{
708     git_helpers:post_commit_renaming_commentlibrsh
709 }
710
711 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
712 git_helpers/post_commit_renaming_comment.libr.sh
713 }
714
715
716 \subsection{
717     git\_helpers/pre-commit
718 }
719 \label{
720     git_helpers:pre-commit
721 }
722
723 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
724 git_helpers/pre-commit
725 }
726
727
728 \subsection{
729     LiensUtiles.txt
730 }
731 \label{
732     LiensUtilestxt
733 }
734

```

```

735
736 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
737 LiensUtiles.txt
738 }
739
740
741 \subsection{
742     README.md.tpl
743 }
744 \label{
745     READMEmdtpl
746 }
747
748 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
749 README.md.tpl
750 }
751
752
753 \subsection{
754     unicode.libr.php
755 }
756 \label{
757     unicodelibrphp
758 }
759
760 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
761 unicode.libr.php
762 }
763
764
765 \subsection{
766     upgrade\_build\_and\_checks.exec.sh
767 }
768 \label{
769     upgrade_build_and_checksexecsh
770 }
771
772 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
773 upgrade_build_and_checks.exec.sh
774 }
775
776
777 \subsection{
778     wget\_sha512.libr.sh
779 }
780 \label{

```

```

781     wget_sha512librsh
782 }
783
784 \VerbatimInput[numbers=left,xleftmargin=-5mm] {
785 wget_sha512.libr.sh
786 }
787
788

```

2.46 build_and_checks_variables/files_names_listing.txt

```

1 // This file is part of DevOrSysAdminScripts library.
2 //
3 // DevOrSysAdminScripts is free software:
4 // you can redistribute it and/or modify it under the terms
5 // of the GNU Lesser General Public License
6 // as published by the Free Software Foundation,
7 // either version 3 of the License,
8 // or (at your option) any later version.
9 //
10 // DevOrSysAdminScripts is distributed in the hope
11 // that it will be useful,
12 // but WITHOUT ANY WARRANTY;
13 // without even the implied warranty of
14 // MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 // See the GNU Lesser General Public License for more details.
16 //
17 // You should have received a copy of
18 // the GNU Lesser General Public License
19 // along with DevOrSysAdminScripts.
20 // If not, see <https://www.gnu.org/licenses/>.
21 //
22 // ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
23 // 2024-10-31T21:37+01:00: This file was moved from
24 // "./build_and_checks_dependencies/listings"
25 // to
26 // "./build_and_checks_variables".
27 // Blasé20240517Résultat.txt
28 // Blasé20240517.sh
29 // Blasé20240518_2.txt
30 // Blasé20240518_3.txt
31 build_and_checks_dependencies/build_and_checks.exec.sh.tpl
32 build_and_checks_dependencies/build_md_from_printable_md.exec.sh
33 build_and_checks_dependencies/check_shell_scripts_beginnings.libr.sh
34 build_and_checks_dependencies/check_URLs.libr.sh
35 build_and_checks_dependencies/common_build_and_checks.exec.sh

```

```
36 build_and_checks_dependencies/common_build_and_checks.exec.sh.tpl
37 build_and_checks_dependencies/comparisons.libr.sh
38 build_and_checks_dependencies/create_PDF.exec.sh
39 build_and_checks_dependencies/generate_from_template.libr.sh
40 build_and_checks_dependencies/get_common_text_glob_patterns.libr.sh
41 build_and_checks_dependencies/grammar_and_spell_check.libr.sh
42 build_and_checks_dependencies/licenses_templates/\
43 build_licenses_templates.exec.sh
44 build_and_checks_dependencies/licenses_templates/\
45 license_file_header_AGPLv3+.c.tpl
46 build_and_checks_dependencies/licenses_templates/\
47 license_file_header_AGPLv3+.py.tpl
48 build_and_checks_dependencies/licenses_templates/\
49 license_file_header_AGPLv3+.sh.tpl
50 build_and_checks_dependencies/licenses_templates/\
51 license_file_header_AGPLv3+.tex.tpl
52 build_and_checks_dependencies/licenses_templates/\
53 license_file_header_AGPLv3+.tpl
54 // build_and_checks_dependencies/licenses_templates/\
55 license_file_header_GPLv3+.c
56 build_and_checks_dependencies/licenses_templates/\
57 license_file_header_GPLv3+.c.tpl
58 // build_and_checks_dependencies/licenses_templates/\
59 license_file_header_GPLv3+.py
60 build_and_checks_dependencies/licenses_templates/\
61 license_file_header_GPLv3+.py.tpl
62 // build_and_checks_dependencies/licenses_templates/\
63 license_file_header_GPLv3+.sh
64 build_and_checks_dependencies/licenses_templates/\
65 license_file_header_GPLv3+.sh.tpl
66 // build_and_checks_dependencies/licenses_templates/\
67 license_file_header_GPLv3+.tex
68 build_and_checks_dependencies/licenses_templates/\
69 license_file_header_GPLv3+.tex.tpl
70 build_and_checks_dependencies/licenses_templates/\
71 license_file_header_GPLv3+.tpl
72 // build_and_checks_dependencies/licenses_templates/\
73 license_file_header_LGPLv3+.c
74 build_and_checks_dependencies/licenses_templates/\
75 license_file_header_LGPLv3+.c.tpl
76 // build_and_checks_dependencies/licenses_templates/\
77 license_file_header_LGPLv3+.py
78 build_and_checks_dependencies/licenses_templates/\
79 license_file_header_LGPLv3+.py.tpl
80 // build_and_checks_dependencies/licenses_templates/\
81 license_file_header_LGPLv3+.sh
```

```

82 build_and_checks_dependencies/licenses_templates/\
83 license_file_header_LGPLv3+.sh.tpl
84 // build_and_checks_dependencies/licenses_templates/\
85 license_file_header_LGPLv3+.tex
86 build_and_checks_dependencies/licenses_templates/\
87 license_file_header_LGPLv3+.tex.tpl
88 build_and_checks_dependencies/licenses_templates/\
89 license_file_header_LGPLv3+.tpl
90 build_and_checks_dependencies/lines_counts.libr.sh
91 build_and_checks_dependencies/lines_filters.libr.sh
92 build_and_checks_dependencies/lines_maps.libr.sh
93 // build_and_checks_dependencies/listings/files_listing.tex.tpl
94 build_and_checks_dependencies/overwrite_if_not_equal.libr.sh
95 build_and_checks_dependencies/python_black_complement.libr.sh
96 build_and_checks_dependencies/python_isort_complement.libr.sh
97 build_and_checks_dependencies/split_score.exec.php
98 build_and_checks_dependencies/split_score.libr.php
99 build_and_checks_dependencies/strings_functions.libr.sh
100 build_and_checks_dependencies/too_long_code_lines.libr.sh
101 build_and_checks_dependencies/update_common_build_and_checks.exec.sh
102 build_and_checks_dependencies/\
103 update_or_check_files_names_listing.exec.sh
104 build_and_checks_variables/.gitignore
105 build_and_checks_variables/bandit.ini
106 build_and_checks_variables/bandit_baseline.json
107 build_and_checks_variables/DevOrSysAdminScripts.html.tpl
108 // build_and_checks_variables/DevOrSysAdminScripts.tex
109 build_and_checks_variables/DevOrSysAdminScripts.tex.tpl
110 build_and_checks_variables/files_listing.tex.tpl
111 build_and_checks_variables/files_names_listing.txt
112 build_and_checks_variables/licenses_notes.txt
113 build_and_checks_variables/pylintrc.toml
114 build_and_checks_variables/repository_data.txt
115 // build_and_checks_variables/upgrade_venvs_ts
116 build_and_checks.exec.sh
117 COPYING
118 COPYING.LESSER
119 // DevOrSysAdminScripts.html
120 // DevOrSysAdminScripts.pdf
121 // EncoreBlasé20240517-20240518.txt
122 git_helpers/git_checks.libr.sh
123 git_helpers/post-commit
124 git_helpers/post_commit_renaming_comment.libr.sh
125 git_helpers/pre-commit
126 LiensUtiles.txt
127 // README.html

```

```
128 // README.md  
129 README.md.tpl  
130 unicode.libr.php  
131 upgrade_build_and_checks.exec.sh  
132 wget_sha512.libr.sh
```

2.47 build_and_checks_variables/licenses_notes.txt

```
1 This repository is dual licensed.  
2 All the Bash scripts source code is covered by GPLv3+.  
3 All the PHP scripts source code is covered by LGPLv3+.  
4  
5 Here is a listing of the dependencies of the code in this repository:  
6 - The following dependencies are GPLv3+ licensed:  
7 basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,  
8 dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,  
9 shellcheck, sort, tail, wc, wget, xargs  
10 - The following dependencies are GPLv2+ licensed:  
11 more, pandoc, pdftex, pdflatex, tree  
12 - The following dependencies are GPLv2 licensed:  
13 git, pylint  
14 - The following dependencies are LGPLv2.1+ licensed:  
15 notify-send  
16 - The following dependencies are MIT licensed:  
17 black, isort, mypy  
18 - The following dependencies are Apache-2.0 licensed:  
19 bandit  
20 - php is licensed under PHP License v3.01  
21 - tex is licensed under Knuth license  
22 - pcregrep has a custom license from Cambridge University  
23  
24 Remark: Some commands listed under GPLv3+ are POSIX  
25 and can have different implementations under another license;  
26 for example, uutils coreutils is MIT licensed,  
27 whilst GNU coreutils is GPLv3+ licensed.
```

2.48 build_and_checks_variables/pylintrc.toml

```
1 [tool pylint.main]  
2 exit-zero = true  
3 ignore = ["node_modules"]  
4 jobs = 0  
5 [tool pylint.basic]  
6 module-rgx = "^[_a-zA-Z0-9]+$"  
7 [tool pylint.reports]  
8 output-format = "colorized"
```

2.49 build_and_checks_variables/repository_data.txt

```
1 Look at grep_variable to understand the structure of this file.
2 Basically, it has almost no structure apart from some lines
3 starting with a "variable_name=".
4 Anything else is comments.
5
6 repository_name=DevOrSysAdminScripts
7 repository_web_url=https://github.com/LLyaudet/DevOrSysAdminScripts/
8 repository_git_url=git@github.com:LLyaudet/DevOrSysAdminScripts.git
9
10 abstract=Some "small" useful scripts
11 abstract=for enhancing development or system-administrators tasks
12
13 license=GPLv3+
14 license2=GPLv3+
15
16 author_email=Laurent.Lyaudet@gmail.com
17 author_full_name=Laurent Frédéric Bernard François Lyaudet
18 author_last_name=Lyaudet
19 author_name=Laurent Lyaudet
20 author_website=https://lyaudet.eu/laurent/
21
22 acknowledgments=Merci Dieu !
23 acknowledgments=Merci Père ! Merci Seigneur ! Merci Saint Esprit !
24
25 grammar_or_spell_checker_command=more
26
27
28 Why one venv for each Python dependency ?
29 Because no language of my knowledge did it right to handle all
30 possible dependency conflicts.
31 So in case of such a conflict, one specialized venv can get you out
32 of any problem.
33 The best solution would have been to allow install of different
34 versions of the same package, and have a mechanism:
35 - first intent, use the latest available version of a package among
36 those that satisfy the declared dependency constraints of the package
37 that has this dependency;
38 - second intent, check a dependency overload configuration file
39 with tree structure: if calling python package is A version 1.1.1
40 with dependency B itself with dependency C, use B 2.2.2 and C 3.3.3;
41 you could have along that another rule saying that when called
42 directly B 2.2.2 should use C 4.4.4;
43 and even more complicated:
44 if calling python package is A version 1.1.1 with dependency B and D
```

```

45 both themselves with dependency C, use B 2.2.2, D 0.1.0,
46 and C 3.3.3 for B, and C 4.4.4 for D;
47 once you've seen that it can never be more complicated than that once
48 the same version number guarantees that the code is the same,
49 you create a config language "à la CSS" for cascading dependencies ;)
50 XD fit into JSON the dumbest possible way and you stop bothering
51 about dependency conflicts for the rest of history of informatics.
52 {
53     "A": {
54         "1.1.1": {
55             "B": {
56                 "2.2.2": {
57                     "C": {
58                         // Dumb, you did not found it by yourself? Failed exam.
59                         "3.3.3" : {}
60                     }
61                 }
62             },
63             "D": {
64                 "0.1.0": {
65                     "C": {
66                         // Dumb, you did not found it by yourself? Failed exam.
67                         "4.4.4" : {}
68                     }
69                 }
70             }
71         },
72         "B": {
73             "2.2.2": {
74                 "C": {
75                     // Dumb, you did not found it by yourself? Failed exam.
76                     "4.4.4" : {}
77                 }
78             }
79         }
80     }
81 Wonderful someone rediscovered nested structures XD
82 Seriously so many engineers or computer scientists are dumb to cry.
83
84 bandit_venv=../venv_bandit
85 black_venv=../venv_black
86 isort_venv=../venv_isort
87 mypy_venv=../venv_mypy
88 pylint_venv=../venv_pylint
89
90

```

```

91 upgrade venvs can be auto or ask, any other value is interpreted
92 as ask.
93
94 upgrade_venvs=ask
95
96
97 time interval can be 0 to always upgrade or ask to upgrade,
98 or a number at most bash max int
99 https://superuser.com/questions/1030122/
100 what-is-the-maximum-value-of-a-numeric-bash-shell-variable
101 it should be enough to simulate never "upgrade or ask for upgrade"
102 unless you claim to live many billions years ;)
103 If it is wat, this is a random int XD (see RANDOM).
104 Note that the probability that it upgrades your dependencies is not
105 1/2, it increases over time, and is 1 after slightly
106 less than one day.
107 If it is watyouwant?, see SRANDOM XD.
108
109 upgrade_venvs_time_interval_in_seconds=wat

```

2.50 build_and_checks.exec.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 General Public License
7 # as published by the Free Software Foundation,
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11 # DevOrSysAdminScripts is distributed in the hope
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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 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # The file "build_and_checks.exec.sh.tpl" was renamed from

```

```

25 # "build_and_checks.sh.tpl" to "build_and_checks.exec.sh.tpl".
26 # The file "build_and_checks.exec.sh" generated from the file
27 # "build_and_checks.sh.tpl" or "build_and_checks.exec.sh.tpl"
28 # was renamed from
29 # "build_and_checks.sh" to "build_and_checks.exec.sh".
30
31 build_and_checks() {
32     local LFBFL_working_directory="."
33     if [[ -n "$1" ]]; then
34         LFBFL_working_directory="$1"
35     fi
36     readonly LFBFL_working_directory
37
38     local LFBFL_verbose=""
39     if [[ "$2" == "--verbose" ]]; then
40         echo "$0 $*"
41         LFBFL_verbose="--verbose"
42     fi
43     readonly LFBFL_verbose
44
45     # shellcheck disable=SC1091
46     source ./wget_sha512.libr.sh
47
48     LFBFL_subdir="build_and_checks_dependencies"
49     mkdir -p "${LFBFL_subdir}/licenses_templates"
50     mkdir -p "build_and_checks_variables/temp"
51     if ! [[ -f "build_and_checks_variables/.gitignore" ]]; then
52         echo "temp/" > "build_and_checks_variables/.gitignore"
53         echo "" >> "build_and_checks_variables/.gitignore"
54     fi
55
56     # LFBFL_dependencies_raw_content_download_URL
57     local LFBFL_dependencies_URL
58     LFBFL_dependencies_URL="https://raw.githubusercontent.com/LLyaudet/"
59     LFBFL_dependencies_URL+="DevOrSysAdminScripts/main/${LFBFL_subdir}"
60     readonly LFBFL_dependencies_URL
61
62     declare -r LFBFL_common_file_name="common_build_and_checks.exec.sh"
63     # LFBFL_script_download_URL
64     declare -r \
65         LFBFL_script="${LFBFL_dependencies_URL}/${LFBFL_common_file_name}"
66     declare -r \
67         LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_common_file_name}"
68     local LFBFL_correct_sha512
69     LFBFL_correct_sha512='7d300de7692d5d3a10eed1892bddfc95e9b1e329fcee2'
70     LFBFL_correct_sha512+='335fcfb002f2cdcf8b75c9f85f55ee6ab376d27fbb78'

```

```

71 LFBFL_correct_sha512+='7b0782984f3f502c1d36fda6830f0721305da3e'
72 wget_sha512 "${LFBFL_file_path}" "${LFBFL_script}" \
73     "${LFBFL_correct_sha512}" "${LFBFL_verbose}" \
74 chmod +x "./${LFBFL_file_path}"
75
76 "${LFBFL_file_path}" "${LFBFL_working_directory}" \
77     "${LFBFL_dependencies_URL}" "${LFBFL_verbose}"
78 }
79
80 if [[ "$*" == --fixed_point_build* ]]; then
81     echo "--fixed_point_build"
82     source "./build_and_checks_dependencies/lines_filters.libr.sh"
83     LFBFL_data_file_name="./build_and_checks_variables/"
84     LFBFL_data_file_name+="repository_data.txt"
85     grep_variable "${LFBFL_data_file_name}" repository_name
86     # Touching the 3 following files first let us iterate
87     # upgrade_build_and_checks 2 times instead of 3 to reach
88     # a fixed point.
89     touch "./build_and_checks_variables/${repository_name}.tex"
90     touch "./${repository_name}.pdf"
91     touch "./${repository_name}.html"
92     # The two iterations of build_and_checks needs to complete
93     # during the same minute to have a fixed point.
94     build_and_checks "$@"
95     # build_and_checks "$@" second iteration below
96     # Then calling this script without --fixed_point_build should not
97     # yield any new superficial modifications.
98 fi
99
100 build_and_checks "$@"

```

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```

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111
112 1. Source Code.

113
114 The "source code" for a work means the preferred form of the work
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117
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122
123 The "System Libraries" of an executable work include anything, other
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133
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139 programs which are used unmodified in performing those activities but
140 which are not part of the work. For example, Corresponding Source
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142 the work, and the source code for shared libraries and dynamically
143 linked subprograms that the work is specifically designed to require,
144 such as by intimate data communication or control flow between those
145 subprograms and other parts of the work.

146
147 The Corresponding Source need not include anything that users
148 can regenerate automatically from other parts of the Corresponding
149 Source.

150
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153

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194

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214 a) The work must carry prominent notices stating that you modified
215 it, and giving a relevant date.

216
217 b) The work must carry prominent notices stating that it is
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221
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244
245 6. Conveying Non-Source Forms.
246
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249 machine-readable Corresponding Source under the terms of this License,
250 in one of these ways:
251
252 a) Convey the object code in, or embodied in, a physical product
253 (including a physical distribution medium), accompanied by the
254 Corresponding Source fixed on a durable physical medium
255 customarily used for software interchange.
256
257 b) Convey the object code in, or embodied in, a physical product
258 (including a physical distribution medium), accompanied by a
259 written offer, valid for at least three years and valid for as
260 long as you offer spare parts or customer support for that product
261 model, to give anyone who possesses the object code either (1) a
262 copy of the Corresponding Source for all the software in the
263 product that is covered by this License, on a durable physical
264 medium customarily used for software interchange, for a price no
265 more than your reasonable cost of physically performing this
266 conveying of source, or (2) access to copy the
267 Corresponding Source from a network server at no charge.
268
269 c) Convey individual copies of the object code with a copy of the
270 written offer to provide the Corresponding Source. This
271 alternative is allowed only occasionally and noncommercially, and
272 only if you received the object code with such an offer, in accord
273 with subsection 6b.
274
275 d) Convey the object code by offering access from a designated
276 place (gratis or for a charge), and offer equivalent access to the
277 Corresponding Source in the same way through the same place at no
278 further charge. You need not require recipients to copy the
279 Corresponding Source along with the object code. If the place to
280 copy the object code is a network server, the Corresponding Source
281 may be on a different server (operated by you or a third party)
282 that supports equivalent copying facilities, provided you maintain
283 clear directions next to the object code saying where to find the
284 Corresponding Source. Regardless of what server hosts the
285 Corresponding Source, you remain obligated to ensure that it is
286 available for as long as needed to satisfy these requirements.
287
288 e) Convey the object code using peer-to-peer transmission, provided
289 you inform other peers where the object code and Corresponding

290 Source of the work are being offered to the general public at no
291 charge under subsection 6d.

292
293 A separable portion of the object code, whose source code is excluded
294 from the Corresponding Source as a System Library, need not be
295 included in conveying the object code work.

296
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303 typical or common use of that class of product, regardless of the status
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305 actually uses, or expects or is expected to use, the product. A product
306 is a consumer product regardless of whether the product has substantial
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308 the only significant mode of use of the product.

309
310 "Installation Information" for a User Product means any methods,
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312 and execute modified versions of a covered work in that User Product from
313 a modified version of its Corresponding Source. The information must
314 suffice to ensure that the continued functioning of the modified object
315 code is in no case prevented or interfered with solely because
316 modification has been made.

317
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320 part of a transaction in which the right of possession and use of the
321 User Product is transferred to the recipient in perpetuity or for a
322 fixed term (regardless of how the transaction is characterized), the
323 Corresponding Source conveyed under this section must be accompanied
324 by the Installation Information. But this requirement does not apply
325 if neither you nor any third party retains the ability to install
326 modified object code on the User Product (for example, the work has
327 been installed in ROM).

328
329 The requirement to provide Installation Information does not include a
330 requirement to continue to provide support service, warranty, or updates
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334 adversely affects the operation of the network or violates the rules and
335 protocols for communication across the network.

336
337 Corresponding Source conveyed, and Installation Information provided,
338 in accord with this section must be in a format that is publicly
339 documented (and with an implementation available to the public in
340 source code form), and must require no special password or key for
341 unpacking, reading or copying.

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344

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452

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470

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```
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```

```
658     under certain conditions; type 'show c' for details.  
659  
660     The hypothetical commands 'show w' and 'show c' should show the appropriate  
661     parts of the General Public License. Of course, your program's commands  
662     might be different; for a GUI interface, you would use an "about box".  
663  
664     You should also get your employer (if you work as a programmer) or school,  
665     if any, to sign a "copyright disclaimer" for the program, if necessary.  
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```

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7  
8  
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11    License, supplemented by the additional permissions listed below.  
12  
13    0. Additional Definitions.  
14  
15    As used herein, "this License" refers to version 3 of the GNU Lesser  
16    General Public License, and the "GNU GPL" refers to version 3 of the GNU  
17    General Public License.  
18  
19    "The Library" refers to a covered work governed by this License,  
20    other than an Application or a Combined Work as defined below.  
21  
22    An "Application" is any work that makes use of an interface provided  
23    by the Library, but which is not otherwise based on the Library.  
24    Defining a subclass of a class defined by the Library is deemed a mode  
25    of using an interface provided by the Library.  
26
```

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28 Application with the Library. The particular version of the Library
29 with which the Combined Work was made is also called the "Linked
30 Version".

31 The "Minimal Corresponding Source" for a Combined Work means the
32 Corresponding Source for the Combined Work, excluding any source code
33 for portions of the Combined Work that, considered in isolation, are
34 based on the Application, and not on the Linked Version.

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36 object code and/or source code for the Application, including any data
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38 Application, but excluding the System Libraries of the Combined Work.

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46 facility is invoked), then you may convey a copy of the modified
47 version:

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49 ensure that, in the event an Application does not supply the
50 function or data, the facility still operates, and performs
51 whatever part of its purpose remains meaningful, or

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53 this License applicable to that copy.

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55 The object code form of an Application may incorporate material from
56 a header file that is part of the Library. You may convey such object
57 code under terms of your choice, provided that, if the incorporated
58 material is not limited to numerical parameters, data structure
59 layouts and accessors, or small macros, inline functions and templates
60 (ten or fewer lines in length), you do both of the following:

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73 Library is used in it and that the Library and its use are
74 covered by this License.

75

76 b) Accompany the object code with a copy of the GNU GPL and this license
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83 portions of the Library contained in the Combined Work and reverse
84 engineering for debugging such modifications, if you also do each of
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91 b) Accompany the Combined Work with a copy of the GNU GPL and this license
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94 c) For a Combined Work that displays copyright notices during
95 execution, include the copyright notice for the Library among
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97 copies of the GNU GPL and this license document.

98

99 d) Do one of the following:

100

101 0) Convey the Minimal Corresponding Source under the terms of this
102 License, and the Corresponding Application Code in a form
103 suitable for, and under terms that permit, the user to
104 recombine or relink the Application with a modified version of
105 the Linked Version to produce a modified Combined Work, in the
106 manner specified by section 6 of the GNU GPL for conveying
107 Corresponding Source.

108

109 1) Use a suitable shared library mechanism for linking with the
110 Library. A suitable mechanism is one that (a) uses at run time
111 a copy of the Library already present on the user's computer
112 system, and (b) will operate properly with a modified version
113 of the Library that is interface-compatible with the Linked
114 Version.

115

116 e) Provide Installation Information, but only if you would otherwise
117 be required to provide such information under section 6 of the
118 GNU GPL, and only to the extent that such information is

119 necessary to install and execute a modified version of the
120 Combined Work produced by recombining or relinking the
121 Application with a modified version of the Linked Version. (If
122 you use option 4d0, the Installation Information must accompany
123 the Minimal Corresponding Source and Corresponding Application
124 Code. If you use option 4d1, you must provide the Installation
125 Information in the manner specified by section 6 of the GNU GPL
126 for conveying Corresponding Source.)

127
128 5. Combined Libraries.

130 You may place library facilities that are a work based on the
131 Library side by side in a single library together with other library
132 facilities that are not Applications and are not covered by this
133 License, and convey such a combined library under terms of your
134 choice, if you do both of the following:

- 135
136 a) Accompany the combined library with a copy of the same work based
137 on the Library, uncombined with any other library facilities,
138 conveyed under the terms of this License.
- 139
140 b) Give prominent notice with the combined library that part of it
141 is a work based on the Library, and explaining where to find the
142 accompanying uncombined form of the same work.

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144 6. Revised Versions of the GNU Lesser General Public License.

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146 The Free Software Foundation may publish revised and/or new versions
147 of the GNU Lesser General Public License from time to time. Such new
148 versions will be similar in spirit to the present version, but may
149 differ in detail to address new problems or concerns.

150
151 Each version is given a distinguishing version number. If the
152 Library as you received it specifies that a certain numbered version
153 of the GNU Lesser General Public License "or any later version"
154 applies to it, you have the option of following the terms and
155 conditions either of that published version or of any later version
156 published by the Free Software Foundation. If the Library as you
157 received it does not specify a version number of the GNU Lesser
158 General Public License, you may choose any version of the GNU Lesser
159 General Public License ever published by the Free Software Foundation.

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161 If the Library as you received it specifies that a proxy can decide
162 whether future versions of the GNU Lesser General Public License shall
163 apply, that proxy's public statement of acceptance of any version is
164 permanent authorization for you to choose that version for the

165 Library.

2.53 git_helpers/git_checks.libr.sh

```
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20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # 2024-05-31T01:57+02:00: This file was renamed from
25 # "git_checks.libr.sh"
26 # to
27 # "git_checks.libr.sh".
28 # 2024-05-31T01:57+02:00: This file was moved from
29 # "."
30 # to
31 # "./git_helpers".
32 # 2024-05-31T01:49+02:00: This file was renamed from
33 # "git_checks.libr.sh"
34 # to
35 # "git_checks.libr.sh".
36 # 2024-05-31T01:49+02:00: This file was moved from
37 # "."
38 # to
39 # "./git_helpers".
40 # This file was renamed from "git_checks.sh" to "git_checks.libr.sh".
41
42 check_files() {
```

```

43     # Checks used on Django projects.
44     declare -r LFBFL_send_summary_1="ATTENTION : models modifiés"
45     declare -r LFBFL_send_body_1="Vérifiez si besoin de migrations"
46     local LFBFL_send_body_2="Pensez aussi aux contraintes d'unicités"
47     LFBFL_send_body_2+=" dès la création du modèle"
48     readonly LFBFL_send_body_2
49     declare -r LFBFL_send_summary_2="ATTENTION : serializers modifiés"
50     declare -r LFBFL_send_body_3=\
51 "Les nouveaux preloadings sont interdits -> #Prefetch()"
52     # shellcheck disable=SC2312
53     if git diff --cached --name-only | grep models;
54     then
55         notify-send "${LFBFL_send_summary_1}" "${LFBFL_send_body_1}"
56         notify-send "${LFBFL_send_summary_1}" "${LFBFL_send_body_2}"
57     fi
58     # shellcheck disable=SC2312
59     if git diff --cached --name-only | grep serializer;
60     then
61         notify-send "${LFBFL_send_summary_2}" "${LFBFL_send_body_3}"
62     fi
63     return 0
64 }
65
66
67 check_no_abusive_trailing_comma(){
68     # Useful for Python code, although it regularly yields
69     # false positives in Python code
70     # (but it is easy to distinguish by hand).
71     # Use `git commit --no-verify` after check.
72     declare -r LFBFL_send_summary_1="ATTENTION"
73     local LFBFL_send_body_1="Il semblerait que vous affectiez un tuple"
74     LFBFL_send_body_1+=" au lieu d'une autre valeur dans une variable."
75     readonly LFBFL_send_body_1
76     # shellcheck disable=SC2312
77     if git diff --cached -r | grep ' = .*,\s*$';
78     then
79         notify-send "${LFBFL_send_summary_1}" "${LFBFL_send_body_1}"
80         return 1
81     fi
82     return 0
83 }
84
85
86 check_black_code_formatting(){
87     # attention ça ne marche que sur les fichiers "stagés" avec git add
88     declare -r LFBFL_files_string=$(\

```

```

89     git diff --cached --name-only | grep '\.py' \
90   )
91 echo "${LFBFL_files_string}"
92 declare -a LFBFL_some_files
93 mapfile -t LFBFL_some_files <<< "${LFBFL_files_string}"
94 readonly LFBFL_some_files
95 declare -i LFBFL_error=0
96 # Not very useful since LFBFL_file should be local to the loop by
97 # default.
98 local LFBFL_file
99 for LFBFL_file in "${LFBFL_some_files[@]}"; do
100   echo "Black will check formatting on file ${LFBFL_file}"
101   if ! black --check --diff "${LFBFL_file}";
102   then
103     LFBFL_error=1
104   fi
105 done
106 # shellcheck disable=SC2248,SC2250
107 return $LFBFL_error
108 }
```

2.54 git_helpers/post-commit

```

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22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
```

```

24 # 2024-05-31T01:49+02:00: This file was renamed from
25 # "post-commit"
26 # to
27 # "post-commit".
28 # 2024-05-31T01:49+02:00: This file was moved from
29 # "."
30 # to
31 # "./git_helpers".
32
33 LFBFL_library="../DevOrSysAdminScripts/git_helpers/"
34 LFBFL_library+="post_commit_renaming_comment.libr.sh"
35 # shellcheck disable=SC1090
36 source "${LFBFL_library}"
37
38 commit_a_file_renamed_comment --verbose --log-directory-change
39 exit 0

```

2.55 git_helpers/post_commit_renaming_comment.libr.sh

```

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18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
24 # 2024-05-31T01:49+02:00: This file was renamed from
25 # "post_commit_renaming_comment.libr.sh"
26 # to
27 # "post_commit_renaming_comment.libr.sh".

```

```

28 # 2024-05-31T01:49+02:00: This file was moved from
29 # "."
30 # to
31 # "./git_helpers".
32 # This file was renamed from "post_commit_renaming_comment"
33 # to "post_commit_renaming_comment.libr.sh".
34 # (Before first commit it seems. But I had the old name in listing.)
35
36 LFBFL_this_file_path=$(realpath "${BASH_SOURCE[0]}")
37 LFBFL_this_file_directory=$(dirname "${LFBFL_this_file_path}")
38 LFBFL_some_directory="${LFBFL_this_file_directory}../"
39 pushd .
40 # shellcheck disable=SC2164
41 cd "${LFBFL_some_directory}"
42 # shellcheck disable=SC1091
43 source "build_and_checks_dependencies/strings_functions.libr.sh"
44 # shellcheck disable=SC2164
45 popd
46
47 # Never forget that the worse security is the illusion of security
48 # (Kevin Mitnick). So, do not expect to have an accurate trackability
49 # of code history just because you use this post-commit hook or
50 # something else more evolved. This is useful but not a guarantee.
51 # For this reason, this function will only handle when all files
52 # impacted in the preceding commit are only renamed.
53 # It assumes that 'diff' is the current default difference utility
54 # parametered with 'git'. This point could be enhanced.
55 commit_a_file_renamed_comment(){
56     declare -i LFBFL_verbose=0
57     if [[ "$1" == "--verbose" ]]; then
58         echo "$0 commit_a_file_renamed_comment $*"
59         LFBFL_verbose=1
60     fi
61     readonly LFBFL_verbose
62
63     declare -i LFBFL_log_directory_change=0
64     if [[ "$2" == "--log-directory-change" ]]; then
65         LFBFL_log_directory_change=1
66     fi
67     readonly LFBFL_log_directory_change
68
69     declare -i LFBFL_max_comment_line_length=70
70     if [[ -n "$3" ]]; then
71         LFBFL_max_comment_line_length="$3"
72     fi
73     readonly LFBFL_max_comment_line_length

```

```

74 # shellcheck disable=SC2250
75 if [[ $LFBFL_verbose -eq 1 ]]; then
76     echo "LFBFL_log_directory_change: ${LFBFL_log_directory_change}"
77     echo \
78         "LFBFL_max_comment_line_length: ${LFBFL_max_comment_line_length}"
79 fi
80 #-----
81
82 # shellcheck disable=SC2155
83 declare -r LFBFL_renaming_lines=$(
84     git log -p -1 | grep 'diff --git' -A 1
85 )
86 # shellcheck disable=SC2250
87 if [[ $LFBFL_verbose -eq 1 ]]; then
88     echo "LFBFL_renaming_lines: ${LFBFL_renaming_lines}"
89 fi
90
91 declare -a LFBFL_renaming_lines_array
92 mapfile -t LFBFL_renaming_lines_array <<< "${LFBFL_renaming_lines}"
93 readonly LFBFL_renaming_lines_array
94
95 # shellcheck disable=SC2155
96 declare -r LFBFL_timestamp=$(date --iso-8601="minute")
97 # shellcheck disable=SC2250
98 if [[ $LFBFL_verbose -eq 1 ]]; then
99     echo "LFBFL_timestamp: ${LFBFL_timestamp}"
100 fi
101 get_split_score_simple 1 "${LFBFL_max_comment_line_length}" \
102 # shellcheck disable=SC2154
103 LFBFL_split_score_command1="${get_split_score_result}"
104 # shellcheck disable=SC2154
105 LFBFL_split_score_command_properties1="${get_split_score_result2}"
106 get_split_score_simple 1 "${LFBFL_max_comment_line_length}" /
107 # shellcheck disable=SC2154
108 LFBFL_split_score_command2="${get_split_score_result}"
109 # shellcheck disable=SC2154
110 LFBFL_split_score_command_properties2="${get_split_score_result2}"
111 declare -i LFBFL_renaming_happened=0
112 declare -i LFBFL_i
113 # declare -r LFBFL_special_file_name="files_names_listing.txt"
114 declare -r LFBFL_sfn="files_names_listing.txt"
115 for ((LFBFL_i=0; LFBFL_i<${#LFBFL_renaming_lines_array[@]};)); do
116     # shellcheck disable=SC2250
117     local LFBFL_diff_line="${LFBFL_renaming_lines_array[$LFBFL_i]}"
118     LFBFL_i=$((LFBFL_i + 1))
119     # shellcheck disable=SC2250

```

```

120 local\
121     LFBFL_similarity_line="${LFBFL_renaming_lines_array[$LFBFL_i]}"
122     LFBFL_i=$((LFBFL_i + 1))
123     # We need to increment 3 times since grep adds "==" lines between.
124     LFBFL_i=$((LFBFL_i + 1))
125     # shellcheck disable=SC2250
126     if [[ $LFBFL_verbose -eq 1 ]]; then
127         echo "LFBFL_diff_line: ${LFBFL_diff_line}"
128         echo "LFBFL_similarity_line: ${LFBFL_similarity_line}"
129     fi
130     if [[ "${LFBFL_similarity_line:17:4}" == "100%" ]]; then
131         # Extract old file name from diff line. -----
132         # shellcheck disable=SC2155
133         local LFBFL_old_file_path=$((
134             echo "${LFBFL_diff_line}" | cut -d ' ' -f 3
135         ))
136         # It starts by "a/".
137         LFBFL_old_file_path=".${LFBFL_old_file_path:1}"
138         # shellcheck disable=SC2155
139         local LFBFL_old_file_name=$(basename "${LFBFL_old_file_path}")
140         # shellcheck disable=SC2155
141         local LFBFL_old_file_directory=$((
142             dirname "${LFBFL_old_file_path}"
143         ))
144         # Extract new file name from diff line. -----
145         # shellcheck disable=SC2155
146         local LFBFL_new_file_path=$((
147             echo "${LFBFL_diff_line}" | cut -d ' ' -f 4
148         ))
149         # It starts by "b/".
150         LFBFL_new_file_path=".${LFBFL_new_file_path:1}"
151         # shellcheck disable=SC2155
152         local LFBFL_new_file_name=$(basename "${LFBFL_new_file_path}")
153         # shellcheck disable=SC2155
154         local LFBFL_new_file_directory=$((
155             dirname "${LFBFL_new_file_path}"
156         ))
157         # shellcheck disable=SC2250
158         if [[ $LFBFL_verbose -eq 1 ]]; then
159             echo "LFBFL_old_file_path: ${LFBFL_old_file_path}"
160             echo "LFBFL_old_file_name: ${LFBFL_old_file_name}"
161             echo "LFBFL_old_file_directory: ${LFBFL_old_file_directory}"
162             echo "LFBFL_new_file_path: ${LFBFL_new_file_path}"
163             echo "LFBFL_new_file_name: ${LFBFL_new_file_name}"
164             echo "LFBFL_new_file_directory: ${LFBFL_new_file_directory}"
165         fi

```

```

166 # Extract "LFBFL_extension" with smart guessing for .tpl -----
167 # and set prefix for line with ©Copyright. -----
168 local LFBFL_useful_file_name="${LFBFL_new_file_name}"
169 local LFBFL_extension="${LFBFL_useful_file_name##*.}"
170 # shellcheck disable=SC2250
171 if [[ $LFBFL_verbose -eq 1 ]]; then
172     echo "LFBFL_useful_file_name: ${LFBFL_useful_file_name}"
173     echo "LFBFL_extension: ${LFBFL_extension}"
174 fi
175 declare -i LFBFL_j
176 for ((LFBFL_j=0; LFBFL_j<3; ++LFBFL_j)); do
177     if [[ "${LFBFL_extension}" != "tpl" ]]; then
178         break
179     fi
180     LFBFL_useful_file_name="${LFBFL_useful_file_name:0:-4}"
181     LFBFL_extension="${LFBFL_useful_file_name##*.}"
182     # shellcheck disable=SC2250
183     if [[ $LFBFL_verbose -eq 1 ]]; then
184         echo "LFBFL_useful_file_name: ${LFBFL_useful_file_name}"
185         echo "LFBFL_extension: ${LFBFL_extension}"
186     fi
187 done
188 local LFBFL_comment_prefix=""
189 if [[ "${LFBFL_extension}" == "sh" ]]; then
190     LFBFL_comment_prefix="# "
191 fi
192 if [[ "${LFBFL_extension}" == "sql" ]]; then
193     LFBFL_comment_prefix="-- "
194 fi
195 if [[ "${LFBFL_extension}" == "tex" ]]; then
196     LFBFL_comment_prefix="% "
197 fi
198 if [[ "${LFBFL_useful_file_name}" == "${LFBFL_sfn}" ]]; then
199     LFBFL_comment_prefix="// "
200 fi
201 # shellcheck disable=SC2250
202 if [[ $LFBFL_verbose -eq 1 ]]; then
203     echo "LFBFL_comment_prefix: ${LFBFL_comment_prefix}"
204 fi
205 -----
206 # Split if necessary old_file_name, new_file_name, etc. to have
207 # comment lines below max_comment_line_length.
208 local LFBFL_comment_prefix2="${LFBFL_comment_prefix}''"
209 # -----
210 local LFBFL_old_file_name2="${LFBFL_comment_prefix2}"
211 LFBFL_old_file_name2+="${LFBFL_old_file_name}"

```

```

212     repeated_split_last_line "${LFBFL_old_file_name2}" \
213         "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
214         '/ '' "${LFBFL_split_score_command1}" \
215             "${LFBFL_split_score_command_properties1}" \
216             # shellcheck disable=SC2154
217             LFBFL_old_file_name2="${repeated_split_last_line_result}"
218             # -----
219             local LFBFL_old_file_directory2="${LFBFL_comment_prefix2}"
220             LFBFL_old_file_directory2+="${LFBFL_old_file_directory}"
221             repeated_split_last_line "${LFBFL_old_file_directory2}" \
222                 "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
223                 '/ '' "${LFBFL_split_score_command2}" \
224                     "${LFBFL_split_score_command_properties2}" \
225                     # shellcheck disable=SC2154
226                     LFBFL_old_file_directory2="${repeated_split_last_line_result}"
227                     # -----
228                     local LFBFL_new_file_name2="${LFBFL_comment_prefix2}"
229                     LFBFL_new_file_name2+="${LFBFL_new_file_name}"
230                     repeated_split_last_line "${LFBFL_new_file_name2}" \
231                         "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
232                         '/ '' "${LFBFL_split_score_command1}" \
233                             "${LFBFL_split_score_command_properties1}" \
234                             # shellcheck disable=SC2154
235                             LFBFL_new_file_name2="${repeated_split_last_line_result}"
236                             # -----
237                             local LFBFL_new_file_directory2="${LFBFL_comment_prefix2}"
238                             LFBFL_new_file_directory2+="${LFBFL_new_file_directory}"
239                             repeated_split_last_line "${LFBFL_new_file_directory2}" \
240                                 "${LFBFL_comment_prefix2}" "${LFBFL_max_comment_line_length}" \
241                                 '/ '' "${LFBFL_split_score_command2}" \
242                                     "${LFBFL_split_score_command_properties2}" \
243                                     # shellcheck disable=SC2154
244                                     LFBFL_new_file_directory2="${repeated_split_last_line_result}"
245                                     # Create new comments strings. -----
246                                     local LFBFL_new_comment=""
247                                     if [[ "${LFBFL_new_file_name2}" != "${LFBFL_old_file_name2}" ]];
248                                     then
249                                         LFBFL_new_comment="${LFBFL_comment_prefix}"
250                                         LFBFL_new_comment+=" ${LFBFL_timestamp}"
251                                         LFBFL_new_comment+=": This file was renamed from\n"
252                                         LFBFL_new_comment+=" ${LFBFL_old_file_name2}''\n"
253                                         LFBFL_new_comment+=" ${LFBFL_comment_prefix}to\n"
254                                         LFBFL_new_comment+=" ${LFBFL_new_file_name2}''."
255                                     fi
256                                     # shellcheck disable=SC2250
257                                     if [[ $LFBFL_log_directory_change -eq 1 ]] && [[ \

```

```

258     "${LFBFL_new_file_directory}" \
259     != "${LFBFL_old_file_directory}" \
260 ]; then
261     LFBFL_new_comment+="\n${LFBFL_comment_prefix}" \
262     LFBFL_new_comment+="${LFBFL_timestamp}" \
263     LFBFL_new_comment+=": This file was moved from\n"
264     LFBFL_new_comment+=" ${LFBFL_old_file_directory2} \"\n"
265     LFBFL_new_comment+="${LFBFL_comment_prefix}to\n"
266     LFBFL_new_comment+=" ${LFBFL_new_file_directory2}\"."
267 fi
268 # shellcheck disable=SC2250
269 if [[ $LFBFL_verbose -eq 1 ]]; then
270     echo "LFBFL_new_comment: ${LFBFL_new_comment}"
271 fi
272 # Find line with ©Copyright. -----
273 # shellcheck disable=SC2155
274 declare -i LFBFL_copyright_line_number=$(((
275     grep -n '©Copyright' "${LFBFL_new_file_path}" \
276     | head --lines=1 \
277     | cut -d ':' -f 1
278 ))
279 # shellcheck disable=SC2250
280 if [[ $LFBFL_verbose -eq 1 ]]; then
281     echo "LFBFL_copyright_line_number:" \
282         "${LFBFL_copyright_line_number}"
283 fi
284 if [[ ${LFBFL_copyright_line_number} -eq 0 ]]; then
285     local LFBFL_send_summary_2="ATTENTION: No line with copyright"
286     notify-send "${LFBFL_send_summary_2}" \
287         "${LFBFL_send_summary_2} for: ${LFBFL_new_comment}"
288     # shellcheck disable=SC2250
289     if [[ $LFBFL_verbose -eq 1 ]]; then
290         echo "No copyright line. Skipping file."
291     fi
292     continue
293 fi
294 # Get total number of lines. -----
295 # shellcheck disable=SC2002,SC2155
296 declare -i LFBFL_line_count=$(((
297     cat "${LFBFL_new_file_path}" | wc -l
298 ))
299 # shellcheck disable=SC2250
300 if [[ $LFBFL_verbose -eq 1 ]]; then
301     echo "LFBFL_line_count: ${LFBFL_line_count}"
302 fi
303 # Compute number of lines after. -----

```

```

304     # shellcheck disable=SC2155
305     declare -i LFBFL_lines_after=$(((
306         LFBFL_line_count - LFBFL_copyright_line_number
307     )))
308     # shellcheck disable=SC2250
309     if [[ $LFBFL_verbose -eq 1 ]]; then
310         echo "LFBFL_lines_after: ${LFBFL_lines_after}"
311     fi
312     # Update file. -----
313     local LFBFL_temp_file_path="${LFBFL_new_file_path}.LFBFL.temp"
314     head --lines="${LFBFL_copyright_line_number}" \
315         "${LFBFL_new_file_path}" > "${LFBFL_temp_file_path}"
316     echo -e "${LFBFL_new_comment}" >> "${LFBFL_temp_file_path}"
317     tail --lines="${LFBFL_lines_after}" \
318         "${LFBFL_new_file_path}" >> "${LFBFL_temp_file_path}"
319     mv "${LFBFL_temp_file_path}" "${LFBFL_new_file_path}"
320     # Add file to stage. -----
321     git add "${LFBFL_new_file_path}"
322     LFBFL_renaming_happened=1
323     fi
324 done
325 readonly LFBFL_renaming_happened
326 if [[ LFBFL_renaming_happened -eq 1 ]]; then
327     # Commit -----
328     local LFBFL_message="commit_a_file_renamed_comment()"
329     LFBFL_message+=" post-commit hook, ${LFBFL_timestamp}."
330     readonly LFBFL_message
331     git commit --message="${LFBFL_message}"
332     fi
333 }
```

2.56 git_helpers/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 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 General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU 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 # 2024-05-31T01:57+02:00: This file was renamed from
25 # "pre-commit"
26 # to
27 # "pre-commit".
28 # 2024-05-31T01:57+02:00: This file was moved from
29 # "."
30 # to
31 # "./git_helpers".
32 #
33 # shellcheck disable=SC1091
34 . ./git_checks.sh
35
36 declare -ig LFBFL_git_hook_error=0
37 if ! check_files; then
38     LFBFL_git_hook_error=1
39 fi
40 if ! check_no_abusive_trailing_comma; then
41     LFBFL_git_hook_error=1
42 fi
43 if ! check_black_code_formatting; then
44     LFBFL_git_hook_error=1
45 fi
46 readonly LFBFL_git_hook_error
47 # shellcheck disable=SC2250
48 if [[ $LFBFL_git_hook_error -eq 1 ]]; then
49     exit 1
50 fi
51 exit 0

```

2.57 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 -----
4 https://stackoverflow.com/a/78413334/5796086
5 https://stackoverflow.com/questions/21612980/\

```

```

6 why-is-usr-bin-env-bash-superior-to-bin-bash/78413334
7 https://web.archive.org/web/20240501105801/https://stackoverflow.com\
8 /questions/21612980/why-is-usr-bin-env-bash-superior-to-bin-bash/\\
9 78413334#78413334
10 -----
11 https://news.ycombinator.com/item?id=22214690
12 https://github.com/koalaman/shellcheck/issues/2005
13 https://opensource.stackexchange.com/questions/6271/\
14 calling-gpld-programs-from-a-shell-script
15 -----

```

2.58 README.md.tpl

```

1 # DevOrSysAdminScripts
2
3 [ ! [CodeFactor-badge] ] [CodeFactor-package-page]
4 [ ! [Codacy-badge] ] [Codacy-package-page]
5 ! [GitHub-top-language-badge]
6 ! [GitHub-code-size-in-bytes-badge]
7 [ ! [Security:bandit:badge] ] [Bandit-GitHub.com]
8 [ ! [Code-style:black:badge] ] [Black-GitHub.com]
9 [ ! [Imports:isort:badge] ] [Isort-GitHub.io]
10 [ ! [Typecheck:mypy:badge] ] [Typecheck-mypy-lang.org]
11 [ ! [Linting:pylint:badge] ] [Pylint-GitHub.com]
12
13 |           **Some "small" useful scripts**          |
14 |-----:-----:-----:-----:-----:-----:-----:|
15 | **for enhancing development or system-administrators tasks** |
16
17 Currently, the biggest part of this repository is in
18 a suite of shell scripts about build and checks that
19 I use in some of my other repositories.
20
21 I tried to follow some conventions for my bash code:
22
23 - I tried to encapsulate most of the code in functions.
24 - Unless used as return values, variables in functions are defined
25   as local variables ('local' keyword or 'declare')
26   with prefix "LFBFL_".
27 - When used as return values, variables in functions are defined
28   as global variables ('declare -g') with prefix
29   "@function_name@_result_".
30 - Whenever a variable is no more modified after some point,
31   add the keyword 'readonly' or use 'declare -r'.
32 - Whenever a variable will only contain integer values (or boolean
33   values as 0 or 1), use 'declare -i'.

```

```

34   - I named bash files with suffixes ".exec.sh" when the script can
35   be runned
36   (executable, abbreviation stops before a vowel).
37   - I named bash files with suffixes ".libr.sh" when the script contains
38   only functions definitions
39   (library, abbreviation stops before a vowel).
40   - When some ".exec.sh" code is encapsulated into functions,
41   either these functions can be reused and go in some ".libr.sh" file,
42   either they are truly specific to this script and they are kept
43   in ".exec.sh" file.
44
45 But the files "pre-commit" and "post-commit" were not renamed,
46 since it is not possible to give them other names to use them as
47 pre-commit/post-commit hooks in 'git'.
48
49 [CodeFactor-badge]: https://www.codefactor.io/repository/github/\llyaudet/DevOrSysAdminScripts/badge
50
51
52 [CodeFactor-package-page]: https://www.codefactor.io/repository/\github/llyaudet/DevOrSysAdminScripts
53
54
55 [Codacy-badge]: https://app.codacy.com/project/badge/Grade/\3dd6ef85e8db4460991d1ebc404b68dd
56
57
58 [Codacy-package-page]: https://app.codacy.com/gh/LLyaudet/\DevOrSysAdminScripts/dashboard?utm_source=gh&utm_medium=referral&utm_content=&utm_campaign=Badge_grade
59
60
61 [GitHub-top-language-badge]: https://img.shields.io/github/\languages/top/llyaudet/DevOrSysAdminScripts
62
63
64 [GitHub-code-size-in-bytes-badge]: https://img.shields.io/github/\languages/code-size/llyaudet/DevOrSysAdminScripts
65
66
67 [Security:bandit:badge]: https://img.shields.io/badge/\security-bandit-yellow.svg
68
69
70 [Bandit-GitHub.com]: https://github.com/PyCQA/bandit
71
72
73 [Code-style:black:badge]: https://img.shields.io/badge/\code%20style-black-000000.svg
74
75
76 [Black-GitHub.com]: https://github.com/psf/black
77
78 [Imports:isort:badge]: https://img.shields.io/badge/\%20imports-isort-%231674b1?style=flat&labelColor=ef8336
79

```

```

80
81 [Isort-GitHub.io]: https://pycqa.github.io/isort/
82
83 [Typecheck:mypy:badge]: https://www.mypy-lang.org/static/\
84 mypy_badge.svg
85
86 [Typecheck-mypy-lang.org]: https://mypy-lang.org/
87
88 [Linting:pylint:badge]: https://img.shields.io/badge/\
89 linting-pylint-yellowgreen
90
91 [Pylint-GitHub.com]: https://github.com/pylint-dev/pylint

```

2.59 **unicode.libr.php**

```

1 <?php
2 /*
3 This file is part of DevOrSysAdminScripts library.
4
5 DevOrSysAdminScripts is free software:
6 you can redistribute it and/or modify it under the terms
7 of the GNU Lesser General Public License
8 as published by the Free Software Foundation,
9 either version 3 of the License,
10 or (at your option) any later version.
11
12 DevOrSysAdminScripts is distributed in the hope
13 that it will be useful,
14 but WITHOUT ANY WARRANTY;
15 without even the implied warranty of
16 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
17 See the GNU Lesser General Public License for more details.
18
19 You should have received a copy of
20 the GNU Lesser General Public License
21 along with DevOrSysAdminScripts.
22 If not, see <https://www.gnu.org/licenses/>.
23
24 ©Copyright 2023-2026 Laurent Frédéric Bernard François Lyaudet
25 This file was renamed from "unicode.php" to "unicode.libr.php".
26 */
27
28 function decimal_code_point_to_UTF8(
29     $i_code_point_in_decimal_notation
30 ) {
31     // var_dump($i_code_point_in_decimal_notation);

```

```

32 // 0xxxxxxx ASCII
33 if($i_code_point_in_decimal_notation < 128){
34     return chr($i_code_point_in_decimal_notation);
35 }
36 $i_continuation_base_value = 128;
37 // 110xxxxx 10xxxxxx
38 if($i_code_point_in_decimal_notation < 256 * (2**3)){
39     $i_first_byte_base_value = 192;
40     $i_last_byte_significant_bits = (
41         $i_code_point_in_decimal_notation % (2**6)
42     );
43     $i_first_byte_significant_bits = (int) (
44         (
45             $i_code_point_in_decimal_notation
46             - $i_last_byte_significant_bits
47         ) / (2**6)
48     );
49     $s_result = chr(
50         $i_first_byte_base_value
51         + $i_first_byte_significant_bits
52     );
53     $s_result .= chr(
54         $i_continuation_base_value
55         + $i_last_byte_significant_bits
56     );
57     return $s_result;
58 }
59 // 1110xxxx 10xxxxxx 10xxxxxx
60 if($i_code_point_in_decimal_notation < 256 * 256){
61     $i_first_byte_base_value = 224;
62     $arr_arr_data_per_byte_reverse = [
63         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
64         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
65         ["i_bits" => 4, "i_base_value" => $i_first_byte_base_value],
66     ];
67     $i_rest = $i_code_point_in_decimal_notation;
68     $s_result = "";
69     foreach($arr_arr_data_per_byte_reverse as $arr_data) {
70         // _Pragma unroll
71         // J'aurais pu "roller" les 4 cas des ifs.
72         // Mais pour les perfs, il faudrait tout unroller vu le nombre
73         // d'itérations. Et j'aimerais bien comparer du code unrollé
74         // aux 2 niveaux à la main avec celui unrollé par le compilateur
75         // sur les 2 niveaux. Je préjuge/présuppose qu'il unroll
76         // l'intérieur d'abord (pour ne pas refaire le même boulot)
77         // puis l'extérieur et qu'il oublie de réoptimiser l'intérieur

```

```

78     // en fonction de l'extérieur unrollé. Est-ce que j'ai raison ?
79     $i_significant_bits = $i_rest % (2**$arr_data["i_bits"]);
80     $i_rest = (int) (
81         ($i_rest - $i_significant_bits) / (2**$arr_data["i_bits"]))
82     );
83     $s_result = ( // .= or =
84         chr($i_significant_bits + $arr_data["i_base_value"])
85         .$s_result
86     );
87 }
88 return $s_result;
89 }
90 // 11110xxx 10xxxxxx 10xxxxxx 10xxxxxx
91 if($i_code_point_in_decimal_notation < 256 * 256 * (2**5)) {
92     $i_first_byte_base_value = 240;
93     $arr_arr_data_per_byte_reverse = [
94         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
95         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
96         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
97         ["i_bits" => 3, "i_base_value" => $i_first_byte_base_value],
98     ];
99     $i_rest = $i_code_point_in_decimal_notation;
100    $s_result = "";
101    foreach($arr_arr_data_per_byte_reverse as $arr_data) {
102        // _Pragma unroll
103        $i_significant_bits = $i_rest % (2**$arr_data["i_bits"]);
104        $i_rest = (int) (
105            ($i_rest - $i_significant_bits) / (2**$arr_data["i_bits"]))
106        );
107        $s_result = ( // .= or =
108            chr($i_significant_bits + $arr_data["i_base_value"])
109            .$s_result
110        );
111    }
112    return $s_result;
113 }
114 throw new Exception(
115     "UTF-8 avec jusqu'à 6 octets a été abandonné il y a longtemps."
116     ." Autre anecdote \"débile\" : MySQL a de base UTF-8 avec jusqu'à"
117     ." 3 octets au lieu de 4 :face-palm:."
118     ." Du coup, ça peut donner quelques \"surprises\"."
119     ." Sinon, y'a aussi ASCII dans MySQL."
120     ." Et comme ça joue sur la mémoire et les performances,"
121     ." pourquoi ils n'ont pas fait ASCII, UTF-8-2, UTF-8-3, UTF-8-4 ?"
122     ." :)"
123 );

```

```

124     }
125
126
127
128     function hexa_code_point_to_UTF8(
129         $s_code_point_in_hexadecimal_notation
130     ) {
131         $s_code_point_in_hexadecimal_notation = strtoupper(
132             $s_code_point_in_hexadecimal_notation
133         );
134         $i_code_point_in_decimal_notation = 0;
135         $i_ord_0 = ord('0');
136         $i_ord_A = ord('A');
137         $i_digit_offset = -$i_ord_0;
138         $i_letter_offset = 10 - $i_ord_A;
139         for(
140             $i = 0, $i_max = strlen($s_code_point_in_hexadecimal_notation);
141             $i < $i_max;
142             ++$i
143         ) {
144             $s_hexa_digit = $s_code_point_in_hexadecimal_notation[$i];
145             $i_code_point_in_decimal_notation *= 16;
146             if(ctype_digit($s_hexa_digit)){
147                 $i_code_point_in_decimal_notation += (
148                     ord($s_hexa_digit) + $i_digit_offset
149                 );
150                 continue;
151             }
152             if(ctype_xdigit($s_hexa_digit)){
153                 $i_code_point_in_decimal_notation += (
154                     ord($s_hexa_digit) + $i_letter_offset
155                 );
156                 continue;
157             }
158             throw new Exception("Not an hexadecimal digit.");
159         }
160         return decimal_code_point_to_UTF8(
161             $i_code_point_in_decimal_notation
162         );
163     }
164
165     /*
166     ?>
167     <?php
168     require_once("./unicode.libr.php");
169     var_dump(hexa_code_point_to_UTF8("002B"));

```

```

170 var_dump(hexa_code_point_to_UTF8("00E6"));
171 var_dump(hexa_code_point_to_UTF8("1400"));
172 var_dump(hexa_code_point_to_UTF8("10111"));
173 // https://en.wikibooks.org/wiki/Unicode/Character_reference/2000-2FFF
174 // Some invisible unicode characters that are a problem:
175 // 2000-200F 2028-202F 205F 2060-206F
176 $arr = [
177     '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007',
178     '2008', '2009', '200A', '200B', '200C', '200D', '200E', '200F',
179     '2028', '2029', '202A', '202B', '202C', '202D', '202E', '202F',
180     '205F',
181     '2060', '2061', '2062', '2063', '2064', '2065', '2066', '2067',
182     '2068', '2069', '206A', '206B', '206C', '206D', '206E', '206F',
183 ];
184 $arr_s = [];
185 $arr_s2 = [];
186 $arr_s3 = [];
187 foreach($arr as $s_hexa) {
188     $s = hexa_code_point_to_UTF8($s_hexa);
189     $arr_s []= $s;
190     if(strlen($s) === 2) {
191         $s2 = '\x'.bin2hex($s[0]).'\x'.bin2hex($s[1]);
192     }
193     if(strlen($s) === 3) {
194         $s2 = '\x'.bin2hex($s[0]).'\x'.bin2hex($s[1])
195             .'\'\x'.bin2hex($s[2]);
196     }
197     $arr_s2 []= $s2;
198     $s3 = " " | sed -e 's/".'$s2."/ /g' \\
199     $arr_s3 []= $s3;
200     echo($s3."\n");
201 }
202 // */
203

```

2.60 upgrade_build_and_checks.exec.sh

```

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```

```

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22 #
23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "upgrade_build_and_checks.sh"
25 # to "upgrade_build_and_checks.exec.sh".
26
27 upgrade_build_and_checks() {
28     local LFBFL_verbose=""
29     if [[ "$*" == *--verbose* ]]; then
30         echo "$0 $*"
31         LFBFL_verbose="--verbose"
32     fi
33     local LFBFL_fixed_point_build=""
34     if [[ "$*" == *--fixed_point_build* ]]; then
35         LFBFL_fixed_point_build="--fixed_point_build"
36     fi
37     readonly LFBFL_verbose
38     (
39         cd build_and_checks_dependencies/
40         && ./update_common_build_and_checks.exec.sh "${LFBFL_verbose}" \
41     )
42     ./build_and_checks.exec.sh ." ${LFBFL_verbose}" \
43     "${LFBFL_fixed_point_build}"
44 }
45
46 upgrade_build_and_checks "$@"

```

2.61 wget_sha512.libr.sh

```

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23 # ©Copyright 2023–2026 Laurent Frédéric Bernard François Lyaudet
24 # This file was renamed from "wget_sha512.sh"
25 # to "wget_sha512.libr.sh".
26
27 wget_sha512() {
28     # $1 file_path
29     # $2 download_URL
30     # $3 correct_sha512
31     # $4 optional --verbose
32     local LFBFL_verbose=""
33     if [[ "$4" == "--verbose" ]]; then
34         echo "$0 wget_sha512 $*"
35         LFBFL_verbose="--verbose"
36     fi
37     readonly LFBFL_verbose
38     if [[ ! -f "$1" ]];
39     then
40         wget "${LFBFL_verbose}" -O "$1" "$2"
41     fi
42     # shellcheck disable=SC2312
43     declare -r \
44         LFBFL_present_sha512=$(sha512sum "$1" | cut -f1 -d' ')
45     if [[ "${LFBFL_present_sha512}" != "$3" ]];
46     then
47         echo "$1 does not have correct sha512"
48         echo "wanted $3"
49         echo "found ${LFBFL_present_sha512}"
50         exit
51     fi
52 }

```

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