

# DevOrSysAdminScripts

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## Abstract

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

Current version: 2026-01-01

Current number of commits: 238

Current git SHA1: b8ec1eb9af1aaaf6e7c90517e31a31c4951516e6

Code lines: 6251 total lines, 5637 not empty lines, 614 empty lines.

## 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_AGPLv3+.c.tpl
          ├── license_file_header_AGPLv3+.py.tpl
          ├── license_file_header_AGPLv3+.sh.tpl
          ├── license_file_header_AGPLv3+.tex.tpl
          ├── license_file_header_AGPLv3+.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_line_at_most.exec.php
    └── split_line_at_most.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
        └── DevOrSysAdminScripts.html.tpl
        └── DevOrSysAdminScripts.tex
        └── DevOrSysAdminScripts.tex.tpl
        └── files_listing.tex.tpl
        └── files_names_listing.txt
        └── .gitignore
        └── licenses_notes.txt
        └── 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, 71 files

```

[ 12K Jan  1 00:30] ./
└── [4.0K Jan  1 00:30] build_and_checks_dependencies/
    ├── [2.6K Dec 30 22:26] build_and_checks.exec.sh.tpl*
    ├── [2.5K Dec 31 14:46] build_md_from_printable_md.exec.sh*
    ├── [1.3K Dec 30 17:50] check_shell_scripts_beginnings.libr.sh
    ├── [2.4K Dec 31 23:21] check_URLs.libr.sh
    ├── [ 17K Jan  1 00:30] common_build_and_checks.exec.sh*
    ├── [ 12K Dec 31 15:37] common_build_and_checks.exec.sh.tpl
    ├── [3.1K Dec 30 18:02] comparisons.libr.sh
    ├── [ 14K Jan  1 00:25] create_PDF.exec.sh*
    ├── [3.1K Dec 31 21:28] generate_from_template.libr.sh
    ├── [1.9K Dec 30 19:53] get_common_text_glob_patterns.libr.sh
    ├── [1.9K Dec 30 19:55] grammar_and_spell_check.libr.sh
    └── [4.0K Jan  1 00:30] licenses_templates/
        ├── [7.7K Dec 30 19:53] 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 Dec 30 19:34] license_file_header_AGPLv3+.tex.tpl
        ├── [ 728 Dec 30 19:32] license_file_header_AGPLv3+.tpl
        ├── [ 761 Dec 30 16:12] license_file_header_GPLv3+.c
        ├── [ 713 Dec 27 21:48] license_file_header_GPLv3+.c.tpl
        ├── [ 763 Dec 30 16:12] license_file_header_GPLv3+.py
        ├── [ 715 Dec 27 21:48] license_file_header_GPLv3+.py.tpl
        ├── [ 795 Dec 30 16:12] license_file_header_GPLv3+.sh
        ├── [ 747 Dec 27 21:48] license_file_header_GPLv3+.sh.tpl
        ├── [ 795 Dec 30 16:12] license_file_header_GPLv3+.tex
        ├── [ 747 Dec 27 21:48] license_file_header_GPLv3+.tex.tpl
        ├── [ 707 Dec 27 21:48] license_file_header_GPLv3+.tpl
        ├── [ 782 Dec 27 21:48] license_file_header_LGPLv3+.c
        ├── [ 734 Dec 27 21:48] license_file_header_LGPLv3+.c.tpl
        ├── [ 784 Dec 27 21:48] license_file_header_LGPLv3+.py
        ├── [ 736 Dec 27 21:48] license_file_header_LGPLv3+.py.tpl
        └── [ 816 Dec 27 21:48] license_file_header_LGPLv3+.sh

```

```

    └── [ 768 Dec 27 21:48] license_file_header_LGPLv3+.sh.tpl
    └── [ 816 Dec 27 21:48] 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 Dec 31 23:37] lines_counts.libr.sh
    └── [6.7K Dec 31 23:36] lines_filters.libr.sh
    └── [2.8K Dec 30 20:05] lines_maps.libr.sh
    └── [1.4K Dec 31 22:40] overwrite_if_not_equal.libr.sh
    └── [1.4K Dec 30 20:15] python_black_complement.libr.sh
    └── [1.7K Dec 30 20:16] python_isort_complement.libr.sh
    └── [1.8K Dec 30 20:17] split_line_at_most.exec.php*
    └── [2.2K Dec 29 22:52] split_line_at_most.libr.php
    └── [ 13K Dec 31 19:42] strings_functions.libr.sh
    └── [2.3K Jan  1 00:23] too_long_code_lines.libr.sh
    └── [3.8K Dec 30 21:43] update_common_build_and_checks.exec.sh*
    └── [4.3K Dec 30 22:40] *
        | update_or_check_files_names_listing.exec.sh**
    └── [2.8K Jan  1 00:30] build_and_checks.exec.sh*
    └── [4.0K Jan  1 00:31] build_and_checks_variables/
        └── [4.4K Dec 31 22:13] DevOrSysAdminScripts.html.tpl
        └── [ 26K Jan  1 00:30] DevOrSysAdminScripts.tex
        └── [3.7K Dec 31 15:41] DevOrSysAdminScripts.tex.tpl
        └── [ 15K Dec 31 19:44] files_listing.tex.tpl
        └── [5.2K Dec 31 16:15] files_names_listing.txt
        └── [    7 Dec 29 17:13] .gitignore
        └── [1.0K Dec 31 14:41] licenses_notes.txt
        └── [ 645 Dec 30 16:37] repository_data.txt
    └── [ 34K May   6 2024] COPYING
    └── [7.5K Dec 27 21:48] COPYING.LESSER
    └── [250K Jan  1 00:30] DevOrSysAdminScripts.html
    └── [249K Jan  1 00:30] DevOrSysAdminScripts.pdf
    └── [4.0K Dec 31 15:11] git_helpers/
        └── [3.4K Dec 30 17:02] git_checks.libr.sh
        └── [1.2K Dec 30 17:25] post-commit
        └── [ 13K Dec 31 15:11] post_commit_renaming_comment.libr.sh
        └── [1.3K Dec 30 17:03] pre-commit
    └── [ 830 Dec 29 19:10] LiensUtiles.txt
    └── [2.7K Dec 31 16:31] README.html
    └── [2.4K Dec 31 16:31] README.md
    └── [2.4K Dec 31 16:31] README.md.tpl
    └── [6.5K Jan  1 00:30] unicode.libr.php
    └── [1.3K Dec 30 16:51] upgrade_build_and_checks.exec.sh*
    └── [1.5K Dec 30 16:47] wget_sha512.libr.sh

```

5 directories, 71 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, pdftex, pdfflatex, tree
- The following dependencies are GPLv2 licensed:  
git
- The following dependencies are LGPLv2.1+ licensed:  
notify-send
- The following dependencies are MIT licensed:  
black, isort, mypy
- 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 2023–2025 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 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.
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```

```

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:
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7 # as published by the Free Software Foundation,
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10 #
11 # DevOrSysAdminScripts is distributed in the hope
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15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
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18 # You should have received a copy of
19 # the GNU General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2025 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.
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9 # or (at your option) any later version.
10 #
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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 2023-2025 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 "./${LFBFL_subdir}/get_common_text_glob_patterns.libr.sh"
29
30 check_URLs() {
31     get_COMMON_TEXT_FILES_GLOB_PATTERNS
32
33     declare -A LFBFL_substitutions
34     LFBFL_substitutions=(\
35         ["http://www.gnu.org/licenses/"]="https://www.gnu.org/licenses/"\
36     )
37
38     local LFBFL_pattern
39     local LFBFL_file_name
40     local LFBFL_base_file_name
41     local LFBFL_substitution
42     # shellcheck disable=SC2154
43     for LFBFL_pattern in "${COMMON_TEXT_FILES_GLOB_PATTERNS[@]}"; do
44         [[ "$1" != "-v" ]]\|
45             || echo "Iterating on pattern: ${LFBFL_pattern}"
46     # shellcheck disable=SC2312
47     find . -type f -name "${LFBFL_pattern}" -printf '%P\n'\
48         | xargs grep -H 'http:'\
49         | grep -v "| xargs grep -H 'htt'"\
50         | grep -vP "'\"]http(:[^"]*)['\"].*['\"]https\\\"1['\"]'"\
51     # Last grep just above will remove false positives from
52     # substitutions that fit on one line.
53     for LFBFL_file_name in ${LFBFL_pattern}; do
54         [[ -f "${LFBFL_file_name}" ]] || continue
55         LFBFL_base_file_name=$(basename "${LFBFL_file_name}")
56         [[ "${LFBFL_base_file_name}" != "check_URLs.libr.sh" ]]\|
57             || continue
58         [[ "$1" != "-v" ]]\|
59             || echo "Handling the file: ${LFBFL_file_name}"
60         for LFBFL_substitution in "${!LFBFL_substitutions[@]}"; do
61             LFBFL_substitution2=\
62             ${LFBFL_substitutions[$LFBFL_substitution]}
63             if grep -q "${LFBFL_substitution}" "${LFBFL_file_name}"; then
64                 sed -i "s|${LFBFL_substitution}|${LFBFL_substitution2}|g"\|
65                 "${LFBFL_file_name}"
66             fi
67             done
68         done
69     done
70 }

```

## 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:
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9 # or (at your option) any later version.
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11 # DevOrSysAdminScripts is distributed in the hope
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13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU 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 2023–2025 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='1f53caeb84d9ea0b597678118dbf028114c9a37fab952'
61 LFBFL_correct_sha512+='6d4a6d8e08f4dd5a05d8cc69b52cc405613a325c9bf9'
62 LFBFL_correct_sha512+='7e91ef5206efa1a151cc94ade7c3d708c7ed2ef'
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}/${LFBFL_file_name}"
70 local LFBFL_correct_sha512
71 LFBFL_correct_sha512='a17c932546262c82c168e7d4495dd4f2c2409b27c72c0'
72 LFBFL_correct_sha512+='99c8ea3bc5277aa11c64b61de0b93a5bdc9b660483d9'
73 LFBFL_correct_sha512+='4e61cb79935eb1f4ca04bf4ffe4b713f5e7ecc'
74 wget_sha512 "${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}/${LFBFL_file_name}"
80 local LFBFL_correct_sha512
81 LFBFL_correct_sha512='5a713a223db287bbf1bdeef9b601b7127eefe680828cd'
82 LFBFL_correct_sha512+='f382b27672ef95bd4f9d78409673ab0c45a5784caa83'
83 LFBFL_correct_sha512+='8d017f028871194a56f118363dcaf17330e789e'
84 wget_sha512 "${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='1dac26153e23dc9c4455d18a2b3dd76c8fb8278d3b24f'
92 LFBFL_correct_sha512+='86d1c2dfe513e06b16f398f11cc7e52efaafdf360808'
93 LFBFL_correct_sha512+='d9b36f4562621203e3da2ed57897a894272202a'
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='79f35e52701ef46124eb797690111db43d22e690a7018'
102 LFBFL_correct_sha512+='cb268e59a3b09d86101517986f4cee3939b3db1acb93'
103 LFBFL_correct_sha512+='933262f95711c7a9c6b0e100eec4754254d04ce'
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}/${LFBFL_file_name}"
111 local LFBFL_correct_sha512
112 LFBFL_correct_sha512='9cdb123313f89fefb2c769e1e5e0bc2d768db1bf7e183'
113 LFBFL_correct_sha512+='1f703579e22a4cd9ae91713d1155c0357d858420ab9b'
114 LFBFL_correct_sha512+='5453eb0b54c6c74acc538e1ac76c905249e930a'
115 wget_sha512 "${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}/${LFBFL_file_name}"
121 local LFBFL_correct_sha512
122 LFBFL_correct_sha512='eba2a6665977a84897075fbc3d227d14937cf9c7b2270'
123 LFBFL_correct_sha512+='339810caef1a120486979e538a9bc8a9f791564c13c2'
124 LFBFL_correct_sha512+='3e699f6fdb88e4bb29a5eab01bdebabedc3bc70'
125 wget_sha512 "${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}/${LFBFL_file_name}"
131 local LFBFL_correct_sha512
132 LFBFL_correct_sha512='33a477d25e46c49ad000473c1d05a822427d5e769b26e'
133 LFBFL_correct_sha512+='d9457ab182f2ad12d20d26d32a46d6016d7d41be0994'
134 LFBFL_correct_sha512+='c3ca2f2130f0e62b10763cbda60645e1a49dd0c'
135 wget_sha512 "${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='acf0df02e77d69e6e5b61c4c44cfa3ad76bd3657fa4'
146 LFBFL_correct_sha512+='875d19ec249e84db8bc5a8570621cbbf64aa2e9b44de'
147 LFBFL_correct_sha512+='932c28674cdf05372f8577c9345fa8ac5398f6c'
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}/${LFBFL_file_name}"
175 local LFBFL_correct_sha512
176 LFBFL_correct_sha512='265fd0d086b48ab798f35a072335a4976e4eda8c256fe'
177 LFBFL_correct_sha512+='bba6c77c98ca86cdd844c6ac150c3445c80debbb3fc2'
178 LFBFL_correct_sha512+='574b5fceeaaf79ec734a759bdef5fe798067c62'
179 wget_sha512 "${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='4d9647cbd63661c9559dbe3c48542c2ce2afeb0f87b01'
188 LFBFL_correct_sha512+='f0192bcd54862ff772b1f9a09045ecc2f85329b8d92'
189 LFBFL_correct_sha512+='f9f45bf1ce8906ed969c0bf908aeff6552fd555'
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='5e8ef6ab8a3262bc8cd13e1cf7f213a11e6496e178984'
198 LFBFL_correct_sha512+='45ee250f1e2cf532fd1324f0867532ef04d049f40322'
199 LFBFL_correct_sha512+='d041a82ddde1fe195b7ad06fb8aafe03782e13b'
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='10c650cddf78dd40bfd665989ae3561b2ae780bc1c8e'
208 LFBFL_correct_sha512+='841f5cdbe626cd1a61f01cea57757009c9b1ec3d2a7e'
209 LFBFL_correct_sha512+='ef57987dff725cff3e401e86b77a2f29324402d'
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='962a67fae138e48e3f19b47eddbffe2565ded5c074307'
218 LFBFL_correct_sha512+='2c12aece5f0ca9128476c13f13607ff52426c80ac772'
219 LFBFL_correct_sha512+='8d8036b6d82adde03dcfb193b069d29cb2db532'
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='f23f9bbb20902c67f59d24ff46aef99490fa06b467d6c'
228 LFBFL_correct_sha512+='bb63de0b010129bf3994aeab307a1dbbcde5e41958e0'

```

```

229 LFBFL_correct_sha512+='d5872add51d9e09c56e81845db34b9c50350d46'
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='5c27e0496016554cf8783ae0772db2564e56b92a5ed8a'
238 LFBFL_correct_sha512+='9b7b73a518c6a931fb431ee12feff001d5c33b6b22a2'
239 LFBFL_correct_sha512+='1af5491dd207eef3d810494baed7afc83cbf6cb'
240 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
241     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
242
243 LFBFL_file_name="split_line_at_most.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='ecfc21afd7e4ba08c339e62647e3dc2cd3b7e9826364e'
248 LFBFL_correct_sha512+='d3d4dd5ce86db4ae6cb60271ed4f262350aa9690e82c'
249 LFBFL_correct_sha512+='865785abf3c531e74d196391e361cd599117935'
250 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
251     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
252
253 LFBFL_file_name="split_line_at_most.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='3f8a9c760adadda201ca70a3e9523da139d66e821a192'
258 LFBFL_correct_sha512+='d4205560850047a22d72528ddc48289755d74231e15'
259 LFBFL_correct_sha512+='2134031477a66a48cbc16a03568ca6bfeb8ac32'
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='75619c4313145eab21b43c86e6725fe3a799b7d4f79ed'
268 LFBFL_correct_sha512+='7c3c9115f1caf4160625ab4c232d909d504483d46832'
269 LFBFL_correct_sha512+='fa9dffbe88ff177768a386ea0b9c588142662'
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='4f8a343e85516ad5f4093d754a2558862ef43e1d61425'
278 LFBFL_correct_sha512+='c5797219ee16afc10d56523f2d03f0fab6ad8ba3d8d6'
279 LFBFL_correct_sha512+='355d6de44952f2e86fc27cf0defec8ca2bb8b9'
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='da58ab2f0d0ff526c226212c1dce96f9280befebcb19a'
288 LFBFL_correct_sha512+='217617f0df610f563c25d1ed5d8681f07cba9096461b'
289 LFBFL_correct_sha512+='9a38c8a39f82e0259fc21cef87a960f3c76c5d'
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 "./${LFBFL_subdir}/too_long_code_lines.libr.sh"
323
324 echo "Building license headers"
325 "./${LFBFL_subdir2}/build_licenses_templates.exec.sh" \
326     "${LFBFL_verbose}"
327
328 echo "Building README.md"
329 "./${LFBFL_subdir}/build_md_from_printable_md.exec.sh" \
330     "${LFBFL_working_directory}" "README" "${LFBFL_verbose}"
331
332 pushd .
333 # shellcheck disable=SC2164
334 cd "${LFBFL_working_directory}"
335
336 echo "Running shellcheck"
337 declare -i LFBFL_file_path_length
338 declare -i LFBFL_to_skip_number
339 local LFBFL_file_path_end
340 # shellcheck disable=SC2312
341 find . -name "*.sh" | relevant_find | while read -r LFBFL_file_path;
342 do
343     LFBFL_file_path_length=${#LFBFL_file_path}
344     LFBFL_to_skip_number=$((LFBFL_file_path_length - 9))
345     LFBFL_file_path_end="${LFBFL_file_path}:${LFBFL_to_skip_number}"
346     if [[ "${LFBFL_file_path_end}" == "GPLv3+.sh" ]]; then
347         continue
348     fi
349     shellcheck --check-sourced --enable=all --external-sources\
350         "${LFBFL_file_path}"
351 done
352
353 echo "Running isort"
354 isort .
355 python_isort_complement
356
357 echo "Running black"
358 black .
359 python_black_complement
360
361 local LFBFL_directory_path
362 # shellcheck disable=SC2312
363 find . -name "pyproject.toml" | relevant_find\
364     | while read -r LFBFL_file_path;
365 do
366     if grep -q "Typing :: Typed" "${LFBFL_file_path}"; then

```

## 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 2023–2025 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 LFBFL_file_name="build_md_from_printable_md.exec.sh"
55 # LFBFL_script_download_URL
56 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
57 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
58 @sha512_build_md_from_printable_md.exec.sh@
59 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
60     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
61 chmod +x "./${LFBFL_file_path}"
62
63
64 LFBFL_file_name="check_shell_scripts_beginnings.libr.sh"
65 LFBFL_URL="${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_line_at_most.exec.php"
190 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
191 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"

```

```

192 @sha512_split_line_at_most.exec.php@
193 wget_sha512 "${LFBFL_file_path}" "${LFBFL_URL}" \
194     "${LFBFL_correct_sha512}" "${LFBFL_verbose}"
195
196 LFBFL_file_name="split_line_at_most.libr.php"
197 LFBFL_URL="${LFBFL_start_URL}/${LFBFL_file_name}"
198 LFBFL_file_path="./${LFBFL_subdir}/${LFBFL_file_name}"
199 @sha512_split_line_at_most.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 echo "Building license headers"
256 "./${LFBFL_subdir2}/build_licenses_templates.exec.sh" \
257     "${LFBFL_verbose}"
258
259 echo "Building README.md"
260 "./${LFBFL_subdir}/build_md_from_printable_md.exec.sh" \
261     "${LFBFL_working_directory}" "README" "${LFBFL_verbose}"
262
263 pushd .
264 # shellcheck disable=SC2164
265 cd "${LFBFL_working_directory}"
266
267 echo "Running shellcheck"
268 declare -i LFBFL_file_path_length
269 declare -i LFBFL_to_skip_number
270 local LFBFL_file_path_end
271 # shellcheck disable=SC2312
272 find . -name "*.sh" | relevant_find | while read -r LFBFL_file_path;
273 do
274     LFBFL_file_path_length=${#LFBFL_file_path}
275     LFBFL_to_skip_number=$((LFBFL_file_path_length - 9))
276     LFBFL_file_path_end="${LFBFL_file_path}:${LFBFL_to_skip_number}"
277     if [[ "${LFBFL_file_path_end}" == "GPLv3+.sh" ]]; then
278         continue
279     fi
280     shellcheck --check-sourced --enable=all --external-sources\
281         "${LFBFL_file_path}"
282 done
283

```

```

284 echo "Running isort"
285 isort .
286 python_isort_complement
287
288 echo "Running black"
289 black .
290 python_black_complement
291
292 local LFBFL_directory_path
293 # shellcheck disable=SC2312
294 find . -name "pyproject.toml" | relevant_find\
295   | while read -r LFBFL_file_path;
296 do
297   if grep -q "Typing :: Typed" "${LFBFL_file_path}"; then
298     echo "Running mypy"
299     LFBFL_directory_path=$(dirname "${LFBFL_file_path}")
300     mypy "${LFBFL_directory_path}"
301   fi
302 done
303
304 echo "Analyzing too long lines"
305 # shellcheck disable=SC2312
306 too_long_code_lines | relevant_grep | not_license_grep
307
308 echo "Analyzing shell scripts beginnings"
309 # shellcheck disable=SC2312
310 check_shell_scripts_beginnings | relevant_grep
311
312 echo "Analyzing URLs"
313 # shellcheck disable=SC2312
314 check_URLs | relevant_grep
315
316 echo "Analyzing strange characters: hover over in doubt"
317 # shellcheck disable=SC1111
318 LFBFL_usual_characters="\x00-\x7Fàâéèëïîôç“”└─|«»"
319 # shellcheck disable=SC2312
320 grep --exclude-dir .git --color=always\
321   -nPr "[^${LFBFL_usual_characters}]" .
322
323 echo "Checking listed files"
324 "./${LFBFL_subdir}/update_or_check_files_names_listing.exec.sh"
325
326 echo "Creating the PDF file of the listing of the source code"
327 "./${LFBFL_subdir}/create_PDF.exec.sh" "${LFBFL_verbose}"
328
329 # shellcheck disable=SC2164

```

```

330     popd
331 }
332
333 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 2023–2025 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 = '/'.addcslashes(\$b, '/').'/';"

```

```

86     LFBFL_var_3+=" die(preg_match(\$c, \$a));"
87     readonly LFBFL_var_3
88     php -r "${LFBFL_var_3}"
89 }
90
91 is_subfile() {
92     # $1=$file_name
93     # $2=$sub_file_name
94     local LFBFL_var_1="$a = file_get_contents('$1');"
95     LFBFL_var_1+=" \$b = preg_quote(file_get_contents('$2'));""
96     LFBFL_var_1+=" \$c = '/'.addcslashes(\$b, '/').'/';""
97     LFBFL_var_1+=" die(preg_match(\$c, \$a));"
98     readonly LFBFL_var_1
99     php -r "${LFBFL_var_1}"
100 }
101
102 alias min_from_int_sort="min 'sort --numeric-sort'"
103 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 2023–2025 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     > "${LFBFL_subdir2}/temp/current_tree.txt"
99
100 LFBFL_temp_files_listing="./${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 : > "${LFBFL_temp_files_listing2}"
106 get_split_score_after_before_simple 70 /
107 # split_score_command="$LFBFL_generic_result"
108 # shellcheck disable=SC2154
109 declare LFBFL_score_command="${get_split_score_after_before_result}"
110 # shellcheck disable=SC2154
111 declare LFBFL_score_command_properties=\
112 "${get_split_score_after_before_result2}"
113 get_split_score_after_before_simple 70 ':'
114 # split_score_command2="$LFBFL_generic_result"
115 # shellcheck disable=SC2154
116 declare LFBFL_score_command2="${get_split_score_after_before_result}"
117 declare LFBFL_score_command_properties2=\

```

```

118  "${get_split_score_after_before_result2}"
119  declare LFBFL_suffix='%'
120  declare LFBFL_sed_expression='s/\n//Mg'
121  declare -i LFBFL_i=0
122  declare LFBFL_suffix2='!--'
123  declare LFBFL_prefix2='-->'
124  # shellcheck disable=SC2312
125  sed -Ez "${LFBFL_sed_expression}" \
126    ./${LFBFL_subdir2}/files_names_listing.txt \
127    | sed -Ez "${LFBFL_sed_expression}" \
128    | sed -Ez "${LFBFL_sed_expression}" \
129    | sed -Ez "${LFBFL_sed_expression}" \
130    | grep -v '^//\' \
131    | while read -r LFBFL_file_name;
132 do
133   echo "Listing file for tex/HTML : ${LFBFL_file_name}"
134   # echo "Listing file for tex : ${LFBFL_file_name}"
135   # LFBFL_base_file_name=${(basename "${LFBFL_file_name}")}
136   LFBFL_cleaned_path1="${LFBFL_file_name}/_/\_\_"
137   LFBFL_cleaned_path2=$((
138     sed -e 's///:/g' -e 's/..//g' <(echo "${LFBFL_file_name}")
139   ))
140   echo "\subsection{} >> ${LFBFL_temp_files_listing}"
141   LFBFL_new_lines="${LFBFL_cleaned_path1}"
142   if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
143     repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
144       "${LFBFL_suffix}" "${LFBFL_score_command}" \
145       "${LFBFL_score_command_properties}" "\\" \
146       # shellcheck disable=SC2154
147       LFBFL_new_lines=${repeated_split_last_line_result}
148   fi
149   # shellcheck disable=SC2129,SC2312
150   echo " ${LFBFL_file_name}" \
151     | sed -e "s| ${LFBFL_file_name}|${LFBFL_new_lines}|g" \
152     -e 's/_/\_\_g'\ \
153     >> ${LFBFL_temp_files_listing}
154   echo ")" >> ${LFBFL_temp_files_listing}
155   echo "\label{" >> ${LFBFL_temp_files_listing}
156   LFBFL_new_lines="${LFBFL_cleaned_path2}"
157   if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
158     repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
159       "${LFBFL_suffix}" "${LFBFL_score_command2}" \
160       "${LFBFL_score_command_properties2}" \
161       # shellcheck disable=SC2154
162       LFBFL_new_lines=${repeated_split_last_line_result}
163   fi

```

```

164 # shellcheck disable=SC2129,SC2312
165 echo " ${LFBFL_cleaned_path2}" \
166     | sed -e "s| ${LFBFL_cleaned_path2}|${LFBFL_new_lines}|g" \
167     >> "${LFBFL_temp_files_listing}"
168 echo ")" >> "${LFBFL_temp_files_listing}"
169 echo "" >> "${LFBFL_temp_files_listing}"
170 echo "\VerbatimInput [numbers=left,xleftmargin=-5mm] {" \
171     >> "${LFBFL_temp_files_listing}"
172 LFBFL_new_lines="${LFBFL_file_name}"
173 if [[ ${#LFBFL_new_lines} -gt 70 ]]; then
174     repeated_split_last_line "${LFBFL_new_lines}" "" 70 \
175         "${LFBFL_suffix}" "${LFBFL_score_command}" \
176         "${LFBFL_score_command_properties}"
177 # shellcheck disable=SC2154
178     LFBFL_new_lines=${repeated_split_last_line_result}
179 fi
180 # shellcheck disable=SC2129,SC2312
181 echo " ${LFBFL_file_name}" \
182     | sed -e "s| ${LFBFL_file_name}|${LFBFL_new_lines}|g" \
183     >> "${LFBFL_temp_files_listing}"
184 echo ")" >> "${LFBFL_temp_files_listing}"
185 echo "" >> "${LFBFL_temp_files_listing}"
186 echo "" >> "${LFBFL_temp_files_listing}"

187 # echo "Listing file for HTML : ${LFBFL_file_name}"
188 ((++LFBFL_i))
189 echo "<h3 id=\"subsection2.${LFBFL_i}\">>2.${LFBFL_i}" \
190     >> "${LFBFL_temp_files_listing2}"
191 LFBFL_new_lines="${LFBFL_file_name}"
192 if [[ ${#LFBFL_file_name} -gt 70 ]]; then
193     repeated_split_last_line "${LFBFL_new_lines}" "${LFBFL_prefix2}" \
194         70 "${LFBFL_suffix2}" "${LFBFL_score_command}" \
195         "${LFBFL_score_command_properties}"
196 # shellcheck disable=SC2154
197     LFBFL_new_lines=${repeated_split_last_line_result}
198 fi
199 # shellcheck disable=SC2001,SC2129,SC2312
200 echo "${LFBFL_file_name}" \
201     | sed -e "s|${LFBFL_file_name}|${LFBFL_new_lines}|g" \
202     >> "${LFBFL_temp_files_listing2}"
203 echo "</h3>" >> "${LFBFL_temp_files_listing2}"
204 echo "<pre class=\"numbered_lines\">" \
205     >> "${LFBFL_temp_files_listing2}"
206 sed -e 's/&/&/' -e 's/</&lt;/' < "${LFBFL_file_name}" \
207     >> "${LFBFL_temp_files_listing2}"
208 echo "</pre>" >> "${LFBFL_temp_files_listing2}"

```

```

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

```

```

256     70 "" "" 3
257     # shellcheck disable=SC2154
258     LFBFL_new_lines=${repeated_split_last_line_result}
259   fi
260   sed -i -e \
261     "s/${LFBFL_line}/${LFBFL_line_start}\n${LFBFL_new_lines}/g" \
262     "${LFBFL_tree_path}"
263   done
264 done
265
266 if [[ -f "./${LFBFL_subdir2}/${repository_name}.tex.tpl" ]]; then
267   # If there is a template, we init the process from it.
268   cp "./${LFBFL_subdir2}/${repository_name}.tex.tpl" \
269     "./${LFBFL_subdir2}/temp/${repository_name}.tex.1"
270 elif [[ -f "./${LFBFL_subdir2}/${repository_name}.tex" ]]; then
271   # Otherwise if there is a tex file, we init the process from it.
272   cp "./${LFBFL_subdir2}/${repository_name}.tex" \
273     "./${LFBFL_subdir2}/temp/${repository_name}.tex.1"
274 else
275   echo "Neither .tex.tpl, nor .tex in ./${LFBFL_subdir2}/"
276 fi
277
278 # Same logic with repository HTML file.
279 if [[ -f "./${LFBFL_subdir2}/${repository_name}.html.tpl" ]]; then
280   cp "./${LFBFL_subdir2}/${repository_name}.html.tpl" \
281     "./${LFBFL_subdir2}/temp/${repository_name}.html.1"
282 elif [[ -f "./${repository_name}.html" ]]; then
283   cp "./${repository_name}.html" \
284     "./${LFBFL_subdir2}/temp/${repository_name}.html.1"
285 else
286   echo "Neither .html.tpl in ./${LFBFL_subdir2}/, nor .html in ./"
287 fi
288
289 declare -r LFBFL_tex_path_start=\
290   "./${LFBFL_subdir2}/temp/${repository_name}.tex"
291 declare -r LFBFL_html_path_start=\
292   "./${LFBFL_subdir2}/temp/${repository_name}.html"
293
294 # shellcheck disable=SC2001,SC2312
295 echo "${abstract}" | sed -e 's/\n/\n/g' \
296   > "./${LFBFL_subdir2}/temp/abstract_temp"
297
298 # shellcheck disable=SC2001,SC2312
299 echo "${acknowledgments}" | sed -e 's/\n/\n/g' \
300   > "./${LFBFL_subdir2}/temp/acknowledgments_temp"
301

```

```

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

```

```

348     "./${LFBFL_subdir2}/files_listing.tpl"\`  

349     "${LFBFL_tex_path_start}.4"  

350  

351     overwrite_if_not_equal "./${LFBFL_subdir2}/${repository_name}.tex"\`  

352         "${LFBFL_tex_path_start}.4" 1  

353 fi  

354  

355 # HTML filling:  

356 if [[ -f "${LFBFL_html_path_start}.1" ]]; then  

357     sed -i "s|@repository_name@|${repository_name}|g"\`  

358     "${LFBFL_html_path_start}.1"  

359  

360     insert_file_at_token "${LFBFL_html_path_start}.1" @abstract@\`  

361     "./${LFBFL_subdir2}/temp/abstract_temp"\`  

362     "${LFBFL_html_path_start}.2"  

363  

364     insert_file_at_token "${LFBFL_html_path_start}.2" @acknowledgments@\`  

365     "./${LFBFL_subdir2}/temp/acknowledgments_temp"\`  

366     "${LFBFL_html_path_start}.3"  

367  

368     sed -i "s|@author_email@|${author_email}|g"\`  

369     "${LFBFL_html_path_start}.3"  

370  

371     sed -i "s|@author_full_name@|${author_full_name}|g"\`  

372     "${LFBFL_html_path_start}.3"  

373  

374     sed -i "s|@author_website@|${author_website}|g"\`  

375     "${LFBFL_html_path_start}.3"  

376  

377     sed -i "s|@current_date@|${LFBFL_current_date}|g"\`  

378     "${LFBFL_html_path_start}.3"  

379  

380     sed -i "s|@current_git_SHA1@|${LFBFL_current_git_SHA1}|g"\`  

381     "${LFBFL_html_path_start}.3"  

382  

383     sed -i "s|@number_of_commits@|${LFBFL_number_of_commits}|g"\`  

384     "${LFBFL_html_path_start}.3"  

385  

386     sed -i "s|@number_of_lines@|${LFBFL_number_of_lines}|g"\`  

387     "${LFBFL_html_path_start}.3"  

388  

389     pushd "./${LFBFL_subdir2}/temp/" || (echo "pushd failed" && exit)  

390     sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}'\`  

391         "${repository_name}.html.3"  

392     sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}'\`  

393         "${repository_name}.html.3"

```

```

394     popd || (echo "popd failed" && exit)
395
396     insert_file_at_token "${LFBFL_html_path_start}.3" \
397         @files_listing_HTMLPreInput@ \
398         "./${LFBFL_subdir2}/temp/files_listing.html.tpl" \
399         "${LFBFL_html_path_start}.4"
400
401     overwrite_if_not_equal "./${repository_name}.html" \
402         "${LFBFL_html_path_start}.4" 1
403 fi
404
405 if [ -n "${LFBFL_verbose}" ]; then
406     for ((i=0; i<3; i++)); do
407         pdflatex "./${LFBFL_subdir2}/${repository_name}.tex"
408     done
409 else
410     for ((i=0; i<3; i++)); do
411         pdflatex "./${LFBFL_subdir2}/${repository_name}.tex" > /dev/null
412     done
413 fi
414
415 LFBFL_files_to_temp=( \
416     "${repository_name}.aux" \
417     "${repository_name}.log" \
418     "${repository_name}.out" \
419 )
420 for LFBFL_file_name in "${LFBFL_files_to_temp[@]}"; do
421     mv "${LFBFL_file_name}" "${LFBFL_subdir2}/temp/"
422 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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11 # DevOrSysAdminScripts is distributed in the hope
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14 # without even the implied warranty of

```

```

15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU 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 2023–2025 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=$((
66         grep -n "$2" "$1" | head --lines=1 | cut -f 1 -d ':'
67     ))
68     declare -ir LFBFL_line_count=$(ll_wc -l -n "$1")
69     declare -ir LFBFL_lines_after=$(((
70         LFBFL_line_count - LFBFL_line_number
71     )))
72     head --lines="$((LFBFL_line_number - 1))" "$1" > "$3"
73     tail --lines="${LFBFL_lines_after}" "$1" > "$4"
74 }
75
76 insert_file_at_token() {
77     # $1=$file_name
78     # $2=$token assume that token is the only thing on his line.
79     # $3=$file_name_to_insert
80     # $4=$file_name_result
81     declare -r LFBFL_start_file_name="$1.insert_file_at_token1.temp"
82     declare -r LFBFL_end_file_name="$1.insert_file_at_token2.temp"
83     local LFBFL_result_file_name
84     if [[ -n "$4" ]]; then
85         LFBFL_result_file_name="$4"
86     else
87         LFBFL_result_file_name="$1.insert_file_at_token3.temp"
88     fi
89     readonly LFBFL_result_file_name
90     split_file_in_two "$1" "$2" "${LFBFL_start_file_name}" \
91         "${LFBFL_end_file_name}"
92     cat "${LFBFL_start_file_name}" "$3" "${LFBFL_end_file_name}" \
93         > "${LFBFL_result_file_name}"
94     if [[ -z "$4" ]]; then
95         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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```

```

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23 # ©Copyright 2023–2025 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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```

```

9  # or (at your option) any later version.
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14 # without even the implied warranty of
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16 # See the GNU General Public License for more details.
17 #
18 # You should have received a copy of
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21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2025 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

```

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 2023-2025 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 "./${LFBFL_subdir}/overwrite_if_not_equal.libr.sh"
43
44 LFBFL_license_subdir="./${LFBFL_subdir}/licenses_templates/"
45 LFBFL_license_prefix="${LFBFL_license_subdir}license_file_header_"
46 licenseses=( \
47     "AGPLv3+" \
48     "GPLv3+" \
49     "LGPLv3+"
50 )
51
52 # -----
53 # Various language definitions for text file formats
54 block_comment_languages=( \
55     "c" \
56     "py" \
57 )
58 block_comment_enters=( \
59     '/*' \
60     '"""' \
61 )
62 block_comment_exits=( \
63     '*/' \
64     '"""' \
65 )
66 equal "${#block_comment_languages[@]}"\ \
67     "${#block_comment_enters[@]}"\ \
68     "${#block_comment_exits[@]}"
69 # shellcheck disable=SC2181
70 if [[ $? == 0 ]]; then
71     # shellcheck disable=SC1003
72     echo '/!\\"Problème de définition des tableaux de langages 1\"/!\\''
73 fi
74
75 line_comment_languages=( \
76     "sh" \
77     "tex" \
78 )
79 line_comment_prefixes=( \
80     '# ' \
81     '% ' \
82 )
83 equal "${#line_comment_languages[@]}"\ \
84     "${#line_comment_prefixes[@]}"
85 # shellcheck disable=SC2181
86 if [[ $? == 0 ]]; then

```

```

87  # shellcheck disable=SC1003
88  echo '/!\\"Problème de définition des tableaux de langages 2\"/!\\''
89 fi
90 # -----
91 #
92 # -----
93 # We generate the license header templates adapted to various text
94 # files formats.
95 # Kamoulox do endfor, Jacques Beauregard XD
96 # (C'est toujours mieux que l'inverse :) !)
97 # for do endfor -> for do done (Fort Doux Donne).
98 for LFBFL_license in "${licenses[@]}"; do
99   LFBFL_license_prefix2="${LFBFL_license_prefix}${LFBFL_license}"
100  for ((i=0; i<${#block_comment_languages[@]}; i++)); do
101    LFBFL_extension=${block_comment_languages[i]}
102    license_file_name="${LFBFL_license_prefix2}.${LFBFL_extension}"
103    LFBFL_enter_string=${block_comment_enters[i]}
104    LFBFL_exit_string=${block_comment_exits[i]}
105    generate_from_template_with_block_comments \
106      "${LFBFL_license_prefix2}.tpl"\ \
107      "${license_file_name}.tpl"\ \
108      "${LFBFL_enter_string}" "${LFBFL_exit_string}"
109  done
110  LFBFL_temp2=".generate_from_template_with_line_comments.temp"
111  for ((i=0; i<${#line_comment_languages[@]}; i++)); do
112    LFBFL_extension=${line_comment_languages[i]}
113    license_file_name="${LFBFL_license_prefix2}.${LFBFL_extension}"
114    LFBFL_prefix_string=${line_comment_prefixes[i]}
115    LFBFL_intermediate_file_name="${license_file_name}.tpl"
116    LFBFL_intermediate_file_name+=" ${LFBFL_temp2}"
117    generate_from_template_with_line_comments \
118      "${LFBFL_license_prefix2}.tpl"\ \
119      "${license_file_name}.tpl"\ \
120      "${LFBFL_prefix_string}" \
121      "sed -Ei -e 's/\s*$/g' '${LFBFL_intermediate_file_name}'"
122  done
123 done
124 #
125 #
126 LFBFL_data_file_name="build_and_checks_variables/repository_data.txt"
127 repository_name=""
128 license=""
129 license2=""
130 author_full_name=""
131 grep_variable "${LFBFL_data_file_name}" repository_name
132 grep_variable "${LFBFL_data_file_name}" license

```

```

133 grep_variable "${LFBFL_data_file_name}" license2
134 grep_variable "${LFBFL_data_file_name}" author_full_name
135 LFBFL_license_prefix2="${LFBFL_license_prefix}${license}"
136 LFBFL_license_prefix3="${LFBFL_license_prefix}${license2}"
137 # First year according to current state of git repository.
138 # shellcheck disable=SC2312
139 first_year=$(git log | grep 'Date:' | cut -f 8 -d ' ' | tail -1)
140 # Last year according to current state of git repository.
141 # shellcheck disable=SC2312
142 last_year=$(git log | grep 'Date:' | cut -f 8 -d ' ' | head -1)
143 copyright_string="${first_year}-${last_year} ${author_full_name}"
144
145 prepare_filled_license_file_block(){
146     # $1=license_file_name
147     sed -e "s/@repository_name@/${repository_name}/g" \
148         -e "s/@copyright_string@/${copyright_string}/g" \
149         "$1.tpl" > "$1.temp"
150     overwrite_if_not_equal "$1" "$1.temp"
151     # shellcheck disable=SC2312
152     head --lines=-1 "$1" | tail --lines=+2 > "$1.temp"
153     # Strange world: tail --lines=-1 was working to exclude first line.
154     # I tested it months ago, and saw with my eyes the start and end
155     # block comments removed with:
156     # head --lines=-1 "$1" | tail --lines=-1.
157     # Now, man page says to use --lines=+2 instead.
158     # Welcome in the world where AI change your environment and your doc
159     # on the fly...
160 }
161
162 for ((i=0; i<${#block_comment_languages[@]}; i++)); do
163     LFBFL_extension=${block_comment_languages[i]}
164     license_file_name="${LFBFL_license_prefix2}.${LFBFL_extension}"
165     prepare_filled_license_file_block "${license_file_name}"
166     if [[ -n "${license2}" ]]; then
167         license_file_name2="${LFBFL_license_prefix3}.${LFBFL_extension}"
168         prepare_filled_license_file_block "${license_file_name2}"
169     fi
170     # shellcheck disable=SC2312
171     find . -type f -name "*.${LFBFL_extension}" -printf '%P\n' \
172         | relevant_find | while read -r LFBFL_file_name;
173     do
174         is_subfile "${LFBFL_file_name}" "${license_file_name}.temp"
175         declare -i LFBFL_not_subfile=$?
176         declare -i LFBFL_not_subfile2=1
177         if [[ -n "${license2}" ]]; then
178             is_subfile "${LFBFL_file_name}" "${license_file_name2}.temp"

```

```

179         LFBFL_not_subfile2=$?
180     fi
181     if [[ LFBFL_not_subfile -ge 1 && LFBFL_not_subfile2 -ge 1 ]]; then
182         echo "File ${LFBFL_file_name} has no/wrong license header?"
183     fi
184   done
185   rm "${license_file_name}.temp"
186   if [[ -n "${license2}" ]]; then
187     rm "${license_file_name2}.temp"
188   fi
189 done
190
191 prepare_filled_license_file_line(){
192   # $1=license_file_name
193   sed -e "s/@repository_name@/${repository_name}/g" \
194     -e "s/@copyright_string@/${copyright_string}/g" \
195     "$1.tpl" > "$1.temp"
196 overwrite_if_not_equal "$1" "$1.temp"
197 }
198
199 for ((i=0; i<${#line_comment_languages[@]}; i++)); do
200   LFBFL_extension=${line_comment_languages[i]}
201   license_file_name="${LFBFL_license_prefix2}.${LFBFL_extension}"
202   prepare_filled_license_file_line "${license_file_name}"
203   if [[ -n "${license2}" ]]; then
204     license_file_name2="${LFBFL_license_prefix3}.${LFBFL_extension}"
205     prepare_filled_license_file_line "${license_file_name2}"
206   fi
207   # shellcheck disable=SC2312
208   find . -type f -name "*.${LFBFL_extension}" -printf '%P\n' \
209     | relevant_find | while read -r LFBFL_file_name;
210   do
211     is_subfile "${LFBFL_file_name}" "${license_file_name}"
212     declare -i LFBFL_not_subfile=$?
213     declare -i LFBFL_not_subfile2=1
214     if [[ -n "${license2}" ]]; then
215       is_subfile "${LFBFL_file_name}" "${license_file_name2}"
216       LFBFL_not_subfile2=$?
217     fi
218     if [[ LFBFL_not_subfile -ge 1 && LFBFL_not_subfile2 -ge 1 ]]; then
219       echo "File ${LFBFL_file_name} has no/wrong license header?"
220     fi
221   done
222 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**

```

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@

```

## **2.18 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:
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 """

```

## **2.20 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:
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@
```

## **2.21 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:
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@
```

## 2.22 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:
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 """

```

## 2.25 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:
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.
16 #
17 # You should have received a copy of
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**

```

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.
16 %
17 % You should have received a copy of
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@

```

## **2.27 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.
16
17 You should have received a copy of
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@

```

## **2.28 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
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 2023–2025 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 #
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8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU 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 2023–2025 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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2 # This file is part of DevOrSysAdminScripts library.
3 #
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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 2023-2025 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 | 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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22 #
23 # ©Copyright 2023-2025 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     if [[ ! -f "$1" ]]; then
32         if [[ -n "$3" ]]; then
33             cp -p "$2" "$1"
34         else
35             mv "$2" "$1"
36         fi
37         return
38     fi
39     diff -q "$1" "$2"
40     declare -ri LFBFL_is_equal=$?
41     # shellcheck disable=SC2250
42     if [[ $LFBFL_is_equal == 0 ]]; then
43         if [[ -z "$3" ]]; then
44             rm "$2"
45         fi
46     else
47         if [[ -n "$3" ]]; then
48             cp -p "$2" "$1"
49         else

```

```

50         mv "$2" "$1"
51     fi
52 fi
53 }

```

## 2.32 build\_and\_checks\_dependencies/python\_black\_complement.libr.sh

```

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22 #
23 # ©Copyright 2023–2025 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 # And moreover, at some point, I saw the reverse rule
29 # in black or pylint to add an empty line...
30 # This regexp may give false positives,
31 # but that's not the end of the world.
32 check_no_empty_line_after_python_function_docstring() {
33     echo "Checking empty lines after Python function docstrings"
34     pcregrep -M '$def [^"]*""([^\"]|"(?!"))*""\n\n(?!`def)`\
35         -- **/*.py
36 }
37
38 python_black_complement() {
39     check_no_empty_line_after_python_function_docstring

```

40 }

### 2.33 build\_and\_checks\_dependencies/python\_isort\_complement.libr.sh

```
1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
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22 #
23 # ©Copyright 2023–2025 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 "${LFBFL_file_name}" ]] || continue
40             sed -Ez 's/\n(\nfrom _collections_abc[^\\n]*)/\\1\\nMg' \
41                 "${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\_line\_at\_most.exec.php

```

1 #!/usr/bin/php
2 <?php
3 /*
4 This file is part of DevOrSysAdminScripts library.
5
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17 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
18 See the GNU Lesser General Public License for more details.
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21 the GNU Lesser General Public License
22 along with DevOrSysAdminScripts.
23 If not, see <https://www.gnu.org/licenses/>.
24
25 ©Copyright 2023-2025 Laurent Frédéric Bernard François Lyaudet
26 This file was renamed from
27 "call_split_score_after_before_or_before_after.exec.php" to
28 "split_line_at_most.exec.php".
29 This file was renamed from
30 "call_split_score_after_before_or_before_after.php" to
31 "call_split_score_after_before_or_before_after.exec.php".
32 */
33
34 require_once(
35     './build_and_checks_dependencies/split_line_at_most.libr.php'
36 );
```

```

37  /*
38  * php -r \
39  * '$require_once('./build_and_checks_dependencies/' \
40  * '$split_line_at_most.libr.php');' \
41  * '$ echo(generate_split_score_after_before' \
42  * '$(70, [\'/\'])(\'/\', 60, true));' \
43  */
44  */
45
46 $after_before = $argv[1];
47
48 if($after_before) {
49     echo(
50         generate_split_score_after_before(
51             // $argv[1], array_slice($argv, 5)
52             // ($argv[3], $argv[2], $argv[4])
53             // $argv[1], explode(',', $argv[2]),
54             // ($argv[3], $argv[4], $argv[5])
55             // (int) $argv[2], explode(',', $argv[3]),
56             // ($argv[4], (int) $argv[5], $argv[6])
57         );
58     exit();
59 }
60
61 echo(
62     generate_split_score_before_after(
63         (int) $argv[2], explode(',', $argv[3]),
64         // ($argv[4], (int) $argv[5], $argv[6])
65     );

```

## 2.35 build\_and\_checks\_dependencies/split\_line\_at\_most.libr.php

```

1  <?php
2  /*
3  This file is part of DevOrSysAdminScripts library.
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25 This file was renamed from "split_line_at_most.php" to
26 "split_line_at_most.libr.php".
27 */
28
29 function generate_split_score_after_before(
30     $max_length,
31     $delimiter_strings_domain,
32 ) {
33     return function(
34         $delimiter_string,
35         $cut_position,
36         $is_cut_after,
37     ) use ($max_length, $delimiter_strings_domain) {
38         if(!in_array($delimiter_string, $delimiter_strings_domain, true)) {
39             // I do not handle regexps for the moment.
40             // I'm too brainfucked. I just want to finish this feature fast
41             // for HTML and Tex/PDF listings generation with HTML and Tex on
42             // at most 70 characters.
43             return 0;
44         }
45         if($is_cut_after) {
46             // Always way better to cut after '/' than before it.
47             return 1 + $max_length + $cut_position;
48         }
49         return 1 + $cut_position;
50     };
51 }
52
53
54
55 function generate_split_score_before_after(
56     $max_length,
57     $delimiter_strings_domain,
58 ) {
59     return function(
60         $delimiter_string,

```

```

61     $cut_position,
62     $is_cut_after,
63 ) use ($max_length, $delimiter_strings_domain) {
64     if(!in_array($delimiter_string, $delimiter_strings_domain, true)) {
65         // I do not handle regexps for the moment.
66         // I'm too brainfucked. I just want to finish this feature fast
67         // for HTML and Tex/PDF listings generation with HTML and Tex on
68         // at most 70 characters.
69         return 0;
70     }
71     if(!$is_cut_after) {
72         // Always way better to cut before '/' than after it.
73         return 1 + $max_length + $cut_position;
74     }
75     return 1 + $cut_position;
76 };
77 }
78

```

## 2.36 build\_and\_checks\_dependencies/strings\_functions.libr.sh

```

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22 #
23 # ©Copyright 2023–2025 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_after_before_simple() {
47     # $1=$delimiters_strings_domain concatenated characters/delimiters
48     # $2=$delimiter_string a single character
49     # $3=$is_cut_after
50     if [[ "$1" != *$2* ]]; then
51         echo -n "0"
52         return
53     fi
54     if [[ "$3" == "1" ]]; then
55         echo -n "2"
56         return
57     fi
58     echo -n "1"
59     return
60 }
61
62 split_score_before_after_simple() {
63     # $1=$delimiters_strings_domain concatenated characters/delimiters
64     # $2=$delimiter_string a single character
65     # $3=$is_cut_after
66     if [[ "$1" != *$2* ]]; then
67         echo -n "0"
68         return
69     fi
70     if [[ "$3" == "0" ]]; then
71         echo -n "2"

```

```

72     return
73   fi
74   echo -n "1"
75   return
76 }
77
78 get_split_score_after_before_simple() {
79   # $1=$max_length
80   # $2=$delimiters_strings_domain
81   declare -g get_split_score_after_before_result=\"
82 "split_score_after_before_simple '$2'"
83   # shellcheck disable=SC2034
84   declare -g get_split_score_after_before_result2="7"
85 }
86
87 get_split_score_before_after_simple() {
88   # $1=$max_length
89   # $2=$delimiters_strings_domain
90   declare -g get_split_score_before_after_result=\"
91 "split_score_before_after_simple '$2'"
92   # shellcheck disable=SC2034
93   declare -g get_split_score_before_after_result2="11"
94 }
95
96 get_split_line_at_most_exec() {
97   declare -g SPLIT_LINE_AT_MOST_EXEC="./"
98   SPLIT_LINE_AT_MOST_EXEC+="build_and_checks_dependencies"
99   SPLIT_LINE_AT_MOST_EXEC+="/split_line_at_most.exec.php"
100 }
101
102 get_split_score_after_before() {
103   # $1=$max_length
104   # $2=$delimiters_strings_domain
105   get_split_line_at_most_exec
106   declare -g \
107     get_split_score_after_before_result="${SPLIT_LINE_AT_MOST_EXEC}"
108   get_split_score_after_before_result+=" 1 '$1' '$2' "
109   # shellcheck disable=SC2034
110   declare -g get_split_score_after_before_result2="5"
111 }
112
113 get_split_score_before_after() {
114   # $1=$max_length
115   # $2=$delimiters_strings_domain
116   get_split_line_at_most_exec
117   declare -g \

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118     get_split_score_before_after_result="${SPLIT_LINE_AT_MOST_EXEC}"
119     get_split_score_before_after_result+=" 0 '$1' '$2'"
120     # shellcheck disable=SC2034
121     declare -g get_split_score_before_after_result2="9"
122 }
123
124 split_line_at_most () {
125     # $1=$line
126     # $2=$max_length of beginning result string
127     # $3=$split_score_command
128     # negative score means do not consider as a possible split
129     # $4=$split_score_command_properties :
130     # These properties are flags.
131     # If someday some property is not a flag,
132     # then create split_score_command_properties2.
133     # - null or 0 no property;
134     # - 1 split score doesn't depend on which delimiter matches;
135     # - 2 split score doesn't depend on the current position;
136     # - 4 any split score after is always larger
137     #     than any split score before;
138     # - 8 any split score before is always larger
139     #     than any split score after;
140     # $5=$forbidden_previous_character
141     # $6=$split_score_command_delimiter_strings_domain
142     # optimisation if small domain
143     # - this argument can be "null", then we will use $3 only instead,
144     #     in that case, only mono-character strings are considered,
145     # - this argument can be an array of characters,
146     #     optimize accordingly,
147     # - this argument can be an array of strings,
148     #     optimize accordingly,
149     # - this argument can be an array of regexps,
150     #     optimize accordingly.
151     # Not sure an array of regexps makes more sense than a single
152     # one. Maybe they could be both cases with corresponding
153     # optimizations. Same for a single character or substring.
154 #
155 # Note that we're always looking for the last position to split
156 # among maximum score;
157 # if some position gets as score from 2 delimiters,
158 # its score is always the maximum of the two corresponding scores.
159 declare -g split_line_at_most_result_start
160 declare -g split_line_at_most_result_end
161 declare -A LFBFL_positions
162 # echo "$1 $2 $3 $4"
163 # For my use case in bash scripts, I will need only an array of

```

```

164 # characters. See get_split_score_after_before() .
165 if [[ -n "$6" ]]; then
166     echo "split_line_at_most() \$4 NOT IMPLEMENTED YET"
167 fi
168 if [[ "$2" -ge "${#1}" ]]; then
169     split_line_at_most_result_start=$1
170     split_line_at_most_result_end=""
171     return
172 fi
173 declare -r LFBFL_sort_command="sort --numeric-sort"
174 declare -r LFBFL_length_minus_1=$(( ${#1} - 1 ))
175 declare -r LFBFL_i_max=$(
176     min "${LFBFL_sort_command}" "${LFBFL_length_minus_1}" "$2"
177 )
178 local LFBFL_i
179 local LFBFL_j
180 local LFBFL_previous_char
181 local LFBFL_current_char
182 local LFBFL_command1
183 local LFBFL_command2
184 local LFBFL_temp
185
186 # At the beginning, each position has score 0.
187 for ((LFBFL_i=0; LFBFL_i<=LFBFL_i_max; LFBFL_i++)) do
188     LFBFL_positions["${LFBFL_i}"]="0"
189 done
190 LFBFL_j=$((LFBFL_i+1))
191 LFBFL_positions["${LFBFL_j}"]="0"
192
193 # If we have a forbidden previous character,
194 # we mark the forbidden positions with -1.
195 if [[ -n "$5" ]]; then
196     LFBFL_previous_char=""
197     for ((LFBFL_i=0; LFBFL_i<LFBFL_i_max; LFBFL_i++)) do
198         LFBFL_j=$((LFBFL_i+1))
199         if [[ ${LFBFL_i} -ge 1 ]]; then
200             LFBFL_previous_char="${LFBFL_current_char}"
201         fi
202         LFBFL_current_char="${1:${LFBFL_i}:1}"
203         if [[ "${LFBFL_previous_char}" == "$5" ]]; then
204             LFBFL_positions["${LFBFL_i}"]="-1"
205         fi
206         if [[ "${LFBFL_current_char}" == "$5" ]]; then
207             LFBFL_positions["${LFBFL_j}"]="-1"
208         fi
209     done

```

```

210     fi
211
212     if [[ "$4" == "7" ]]; then
213         for ((LFBFL_j=LFBFL_i_max; LFBFL_j>0; LFBFL_j--)) do
214             LFBFL_i=$((LFBFL_j-1))
215             LFBFL_current_char="${1:$LFBFL_i:1}"
216             LFBFL_command1="$3 '$LFBFL_current_char' 0"
217             LFBFL_command2="$3 '$LFBFL_current_char' 1"
218             # echo "${LFBFL_command1}"
219             # echo "${LFBFL_command2}"
220             LFBFL_temp=$(eval "$LFBFL_command1")
221             # echo "${LFBFL_temp}|${LFBFL_i}"
222             if [[ ${LFBFL_temp} -ge 1 ]]; then
223                 # echo "${LFBFL_temp}|${LFBFL_i}"
224                 if [[ ${LFBFL_positions["${LFBFL_i}"]} != "-1" ]]; then
225                     LFBFL_positions["${LFBFL_i}"]=$((max ${LFBFL_sort_command}\"
226                                         ${LFBFL_positions["${LFBFL_i}"]} ${LFBFL_temp}))
227                 )
228             fi
229         fi
230         LFBFL_temp=$(eval "$LFBFL_command2")
231         # echo "${LFBFL_temp}|${LFBFL_j}"
232         if [[ ${LFBFL_temp} -ge 1 ]]; then
233             # echo "${LFBFL_temp}|${LFBFL_j}"
234             if [[ ${LFBFL_positions["${LFBFL_j}"]} != "-1" ]]; then
235                 LFBFL_positions["${LFBFL_j}"]=$((max ${LFBFL_sort_command}\"
236                                         ${LFBFL_positions["${LFBFL_j}"]} ${LFBFL_temp}))
237             )
238             break
239         fi
240     fi
241     done
242 else
243     for ((LFBFL_i=0; LFBFL_i<LFBFL_i_max; LFBFL_i++)) do
244         LFBFL_j=$((LFBFL_i+1))
245         LFBFL_current_char="${1:$LFBFL_i:1}"
246         LFBFL_command1="$3 '$LFBFL_current_char' ${LFBFL_i} 0"
247         LFBFL_command2="$3 '$LFBFL_current_char' ${LFBFL_j} 1"
248         # echo "${LFBFL_command1}"
249         # echo "${LFBFL_command2}"
250         LFBFL_temp=$(eval "$LFBFL_command1")
251         # echo "${LFBFL_temp}|${LFBFL_i}"
252         if [[ ${LFBFL_temp} -ge 1 ]]; then
253             # echo "${LFBFL_temp}|${LFBFL_i}"

```

```

256     if [ [ ${LFBFL_positions["${LFBFL_i}"]} ] != "-1" ]; then
257         LFBFL_positions["${LFBFL_i}"]=$(( 
258             max ${LFBFL_sort_command}\ 
259             ${LFBFL_positions["${LFBFL_i}"]} )" "${LFBFL_temp}""
260         )
261     fi
262     fi
263     LFBFL_temp=$(eval "${LFBFL_command2}")
264     # echo "${LFBFL_temp}|${LFBFL_j}"
265     if [[ ${LFBFL_temp} -ge 1 ]]; then
266         # echo "${LFBFL_temp}|${LFBFL_j}"
267         if [ [ ${LFBFL_positions["${LFBFL_j}"]} ] != "-1" ]; then
268             LFBFL_positions["${LFBFL_j}"]=$(( 
269                 max ${LFBFL_sort_command}\ 
270                 ${LFBFL_positions["${LFBFL_j}"]} )" "${LFBFL_temp}""
271             )
272         fi
273     fi
274     done
275   fi
276   declare -r LFBFL_max_score=\ 
277 $(max 'sort --numeric-sort' "${LFBFL_positions[@]}")
278   local LFBFL_best_position
279   for ((LFBFL_i=0; LFBFL_i<=LFBFL_i_max; LFBFL_i++)) do
280     local LFBFL_value=${LFBFL_positions[$LFBFL_i]}
281     # echo "${LFBFL_i} ${LFBFL_value}"
282     if [ [ "${LFBFL_value}" == "${LFBFL_max_score}" ]]; then
283       LFBFL_best_position="${LFBFL_i}"
284     fi
285   done
286   split_line_at "$1" "${LFBFL_best_position}"
287   # shellcheck disable=SC2250
288   split_line_at_most_result_start=$split_line_at_result_beginning
289   split_line_at_most_result_end="$split_line_at_result_end"
290   # echo "$split_line_at_most_result_start"
291   # echo "$split_line_at_most_result_end"
292 }
293
294 split_last_line() {
295   # $1=$new_lines
296   # $2=$prefix
297   # $3=$max_length
298   # $4=$suffix
299   # $5=$split_score_command
300   # $6=$split_score_command_properties
301   # $7=$forbidden_previous_character ('\\' usually)

```

```

302 # In general, a prefix/suffix can be a required line prefix/suffix
303 # for all final lines like a comment prefix,
304 # or it can be a continuation line prefix/suffix applied only
305 # when splitting a line in 2 lines,
306 # or it can be a prefix/suffix for the string made of all the lines.
307 # Clearly, there is no gain to couple handling a prefix/suffix for
308 # the string made of all the lines in this function.
309 # Since we add a prefix/suffix when splitting,
310 # it is easy to see that we do not need to distinguish between
311 # required line prefix/suffix and continuation line prefix/suffix.
312 # The $2 and $4 arguments are given as concatenation of the
313 # required and continuation line prefixes/suffixes as needed by the
314 # user.
315 # Thus lines arguments should be given already prefixed
316 # and suffixed.
317 # This is logic, since it would be cumbersome to handle prefixing
318 # or not already splitted lines in this function
319 # (see repeated_split_last_line).
320 # The given max_length is the goal.
321 # This function adapts the effective max position for the split by
322 # taking into account the length of the suffix.
323 declare -g split_last_line_result="$1"
324 declare -r LFBFL_max_length_plus=$((3 + 1))
325 declare -r LFBFL_length2=$((3 - ${#4}))
326 declare -r LFBFL-regexp='.'${LFBFL_max_length_plus}"'\}'$'
327 # shellcheck disable=SC2312
328 if echo "$1" | sed -e 's/\n/g' | grep -q "${LFBFL-regexp}"; then
329     # shellcheck disable=SC2312
330     declare -r LFBFL_start=$(
331         echo "$1" | sed -e 's/\n/g' | head --lines=-1 \
332         | sed -z 's/\n/g'\'
333     )
334     # echo "start: ${LFBFL_start}"
335     declare -r LFBFL_last_line=$(
336         echo "$1" | sed -e 's/\n/g' | tail --lines=1\
337     )
338     # echo "last_line: ${LFBFL_last_line}"
339     split_last_line_result=""
340     if [[ -n "${LFBFL_start}" ]]; then
341         split_last_line_result="${LFBFL_start}\n"
342     fi
343     if [[ -n "$5" ]]; then
344         split_line_at_most "${LFBFL_last_line}" "${LFBFL_length2}" \
345             "$5" "$6" "$7"
346         split_last_line_result+="${split_line_at_most_result_start}$4"
347         split_last_line_result+="\n"

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```

348         split_last_line_result+="$2${split_line_at_most_result_end}"
349     else
350         # shellcheck disable=SC2250
351         split_last_line_result+="${LFBFL_last_line:0:$LFBFL_length2}$4"
352         split_last_line_result+="\n"
353         # shellcheck disable=SC2250
354         split_last_line_result+="$2${LFBFL_last_line:$LFBFL_length2}"
355     fi
356   fi
357 }
358
359 repeated_split_last_line(){
360   declare -g repeated_split_last_line_result="$1"
361   local LFBFL_i
362   for ((LFBFL_i=0; LFBFL_i<$6; ++LFBFL_i)) do
363     split_last_line "${repeated_split_last_line_result}" "$2" "$3" \
364     "$4" "$5" "$6" "$7"
365     repeated_split_last_line_result="${split_last_line_result}"
366     # echo "${split_last_line_result}"
367   done
368 }

```

## 2.37 build\_and\_checks\_dependencies/too\_long\_code\_lines.libr.sh

```

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```

```

23 # ©Copyright 2023-2025 Laurent Frédéric Bernard François Lyaudet
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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23 # ©Copyright 2023-2025 Laurent Frédéric Bernard François Lyaudet  
24 # This file was renamed from "update_common_build_and_checks.sh"  
25 # to "update_common_build_and_checks.exec.sh".  
26  
27 update_common_build_and_checks () {  
28     declare -i LFBFL_verbose=0  
29     if [[ "$1" == "--verbose" ]]; then  
30         echo "$0 $*"  
31         LFBFL_verbose="--verbose"  
32     fi  
33     # shellcheck disable=SC2034  
34     readonly LFBFL_verbose  
35  
36     declare -r LFBFL_common_file_name="common_build_and_checks.exec.sh"  
37     cp "./${LFBFL_common_file_name}.tpl" "./${LFBFL_common_file_name}"  
38  
39     declare -r LFBFL_file_names=(\  
40         "build_md_from_printable_md.exec.sh"\ \  
41         "check_shell_scripts_beginnings.libr.sh"\ \  
42     )
```

```

42 "check_URLs.libr.sh" \
43 "comparisons.libr.sh" \
44 "create_PDF.exec.sh" \
45 "generate_from_template.libr.sh" \
46 "get_common_text_glob_patterns.libr.sh" \
47 "grammar_and_spell_check.libr.sh" \
48 "licenses_templates/build_licenses_templates.exec.sh" \
49 "licenses_templates/license_file_header_AGPLv3+.tpl" \
50 "licenses_templates/license_file_header_GPLv3+.tpl" \
51 "licenses_templates/license_file_header_LGPLv3+.tpl" \
52 "lines_counts.libr.sh" \
53 "lines_filters.libr.sh" \
54 "lines_maps.libr.sh" \
55 "update_or_check_files_names_listing.exec.sh" \
56 "overwrite_if_not_equal.libr.sh" \
57 "python_black_complement.libr.sh" \
58 "python_isort_complement.libr.sh" \
59 "split_line_at_most.exec.php" \
60 "split_line_at_most.libr.php" \
61 "strings_functions.libr.sh" \
62 "too_long_code_lines.libr.sh" \
63 )
64
65 local LFBFL_file_name
66 local LFBFL_file_sha512
67 local LFBFL_file_sha512_all
68 local LFBFL_base_file_name
69 for LFBFL_file_name in "${LFBFL_file_names[@]}"; do
70     # shellcheck disable=SC2312
71     LFBFL_file_sha512=$(
72         sha512sum "./${LFBFL_file_name}" | cut -f1 -d' '
73     )
74     LFBFL_file_sha512_all="local LFBFL_correct_sha512\n"
75     LFBFL_file_sha512_all+="    LFBFL_correct_sha512=\""
76     LFBFL_file_sha512_all+="'${LFBFL_file_sha512:0:45}'\n"
77     LFBFL_file_sha512_all+="    LFBFL_correct_sha512\+=\""
78     LFBFL_file_sha512_all+="'${LFBFL_file_sha512:45:44}'\n"
79     LFBFL_file_sha512_all+="    LFBFL_correct_sha512\+=\""
80     LFBFL_file_sha512_all+="'${LFBFL_file_sha512:89}'"
81     LFBFL_base_file_name=$(basename "${LFBFL_file_name}")
82     sed -i \
83         "s|@sha512_${LFBFL_base_file_name}@|${LFBFL_file_sha512_all}|g" \
84         "./${LFBFL_common_file_name}"
85 done
86
87 declare -r LFBFL_main_file_name="build_and_checks.exec.sh"

```

```

88 cp "./${LFBFL_main_file_name}.tpl" "../${LFBFL_main_file_name}"
89
90 # shellcheck disable=SC2312
91 LFBFL_file_sha512=$(
92     sha512sum "./${LFBFL_common_file_name}" | cut -f1 -d' '
93 )
94 LFBFL_file_sha512_all="local LFBFL_correct_sha512\n"
95 LFBFL_file_sha512_all+=" LFBFL_correct_sha512="
96 LFBFL_file_sha512_all+="${LFBFL_file_sha512:0:45}'\n"
97 LFBFL_file_sha512_all+=" LFBFL_correct_sha512\+="
98 LFBFL_file_sha512_all+="${LFBFL_file_sha512:45:44}'\n"
99 LFBFL_file_sha512_all+=" LFBFL_correct_sha512\+="
100 LFBFL_file_sha512_all+="${LFBFL_file_sha512:89}'"
101 sed -i \
102     "s|@sha512_${LFBFL_common_file_name}@|${LFBFL_file_sha512_all}|g" \
103     "../${LFBFL_main_file_name}"
104 }
105
106 update_common_build_and_checks "$@"

```

## 2.39 build\_and\_checks\_dependencies/update\_or\_check\_files\_names\_listing.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 2023–2025 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_after_before_simple 70 /
63 # shellcheck disable=SC2154
64 split_score_command="${get_split_score_after_before_result}"
65 # shellcheck disable=SC2154
66 split_score_command_properties=\
67 "${get_split_score_after_before_result2}"
68 # shellcheck disable=SC1003
69 suffix='\\'
70 # shellcheck disable=SC2312

```

```

71 find . -type f -printf '%P\n' | relevant_find | sort \
72   | while read -r file_name;
73 do
74   git check-ignore -q "${file_name}" && continue
75   base_file_name=$(basename "${file_name}")
76   [[ "${base_file_name}" != "files_names_listing.txt.temp1" ]] \
77     || continue
78   [[ "${base_file_name}" != "files_names_listing.txt.temp2" ]] \
79     || continue
80   [[ "${base_file_name}" != "files_names_listing.txt.temp3" ]] \
81     || continue
82   [[ "${base_file_name}" != "files_names_listing.txt.temp4" ]] \
83     || continue
84   if [[ "${base_file_name}" == *.md ]]; then
85     if [[ -f "${file_name}.tpl" ]]; then
86       continue
87     fi
88   fi
89   repeated_split_last_line "${file_name}" "" 70 "${suffix}" \
90     "${split_score_command}" "${split_score_command_properties}"
91   # shellcheck disable=SC2154
92   split_file_name="${repeated_split_last_line_result}"
93   if [[ "$1" == "--write" ]]; then
94     # shellcheck disable=SC2001
95     echo "${file_name}" \
96       | sed -e "s|${file_name}|${split_file_name}|g" \
97       >> "${files_names_listing}"
98     continue
99   fi
100  if grep -q "${file_name}\$" "${files_names_listing}.temp4"; then
101    :
102  else
103    echo \
104      "The file ${file_name} is not listed in ${files_names_listing}."
105    if [[ "$1" == "--append" ]]; then
106      # shellcheck disable=SC2001
107      echo "${file_name}" \
108        | sed -e \
109          "s|${file_name}|${split_file_name}|g" \
110          >> "${files_names_listing}"
111    fi
112  fi
113 done
114 # shellcheck disable=SC2002,2312
115 cat "${files_names_listing}.temp4" | while read -r file_name;

```

```

117 do
118     [[ "${file_name}" != '/*' ]] || continue
119     base_file_name=$(basename "${file_name}")
120     if ! [[ -f "${file_name}" ]]; then
121         echo \
122             "The non-file ${file_name} is listed in ${files_names_listing}."
123     fi
124 done
125
126 rm "${files_names_listing}.temp1" "${files_names_listing}.temp2" \
127 "${files_names_listing}.temp3" "${files_names_listing}.temp4"
128 shopt -u dotglob
129 shopt -s globstar
130
131 if [[ -n "${LFBFL_verbose}" ]]; then
132     cat "${files_names_listing}"
133 fi

```

## 2.40 build\_and\_checks\_variables/.gitignore

```

1 temp/
2

```

## 2.41 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 2023–2025 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
62 blockquote{
63     margin-left: 4ex;
64     margin-right: 4ex;
65     text-align: left;
66 }
67 </style>
```

```

68 <title>@repository_name@</title>
69 </head>
70 <body >
71 <table class="title">
72   <tr>
73     <td style="padding:1ex">
74       <h1 class="titlemain">@repository_name@</h1>
75       <h3 class="titlerest">
76         @author_full_name@
77         <br>
78         <a href="@author_website@">
79           <span style="font-family:monospace">
80             @author_website@
81           </span>
82         </a>
83         <br>
84         <a href="mailto:@author_email@">
85           <span style="font-family:monospace">
86             @author_email@
87           </span>
88         </a>
89       </h3>
90     </td>
91   </tr>
92 </table>
93
94 <blockquote class="abstract">
95   <span style="font-weight:bold">Abstract:</span>
96   @abstract@
97 </blockquote>
98 <p>Current version: @current_date@</p>
99 <p>Current number of commits: @number_of_commits@</p>
100 <p>Current git SHA1: @current_git_SHA1@</p>
101 <p>
102 Code lines: @number_of_lines@
103 </p>
104
105
106 <h2 id="section1">1 Files tree</h2>
107 <pre class="verbatim">
108 @current_tree_light@
109 </pre>
110 <pre class="verbatim">
111 @current_tree@
112 </pre>
113

```

```

114
115 <h2 id="section2">2 Listing of files</h2>
116
117 <p>
118 This repository is dual licensed.
119 All the Bash scripts source code is covered by GPLv3+.
120 All the PHP scripts source code is covered by LGPLv3+.
121 </p>
122
123 <p>
124 The text of the licenses is available at:
125 <a href="https://www.gnu.org/licenses/"><span
126   style="font-family:monospace"
127 >https://www.gnu.org/licenses/</span></a>.
128 The git repository of this source code is also available at:
129 <a href="https://github.com/LLyaudet/@repository_name@"><span
130   style="font-family:monospace"
131 >https://github.com/LLyaudet/@repository_name@</span></a>.
132 </p>
133
134 <p>
135 Here is a listing of the dependencies of the code in this repository:
136 <ul>
137 <li> The following dependencies are GPLv3+ licensed:<br>
138 basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,
139 dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,
140 shellcheck, sort, tail, wc, wget, xargs
141 <li> The following dependencies are GPLv2+ licensed:<br>
142 more, pandoc, pdftex, pdflatex, tree
143 <li> The following dependencies are GPLv2 licensed:<br>
144 git
145 <li> The following dependencies are LGPLv2.1+ licensed:<br>
146 notify-send
147 <li> The following dependencies are MIT licensed:<br>
148 black, isort, mypy
149 <li> php is licensed under PHP License v3.01
150 <li> tex is licensed under Knuth license
151 <li> pcregrep has a custom license from Cambridge University
152 </ul>
153 </p>
154
155 <p>
156 Remark: Some commands listed under GPLv3+ are POSIX
157 and can have different implementations under another license;
158 for example, uutils coreutils is MIT licensed,
159 whilst GNU coreutils is GPLv3+ licensed.

```

```

160  </p>
161
162 @files_listing_HTMLPreInput@
163
164 <p>
165 @acknowledgments@
166 </p>
167
168 <script>
169 "use strict";
170 const pres = Array.from(
171   document.getElementsByClassName('numbered_lines')
172 );
173 pres.forEach(
174   (pre) => {
175     const nb = Array.from(pre.innerText.matchAll("\n")).length + 1;
176     let numbers = "";
177     for(let i = 1; i <= nb; ++i){
178       numbers += i.toString();
179       if(i < nb){ numbers += "\n "; }
180     }
181     pre.setAttribute('line-numbers', numbers);
182   }
183 );
184 </script>
185 </html>

```

## 2.42 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 2023–2025 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{latextsym}
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  \section{Files tree}
85  \label{section:tree}

86
87  \begin{verbatim}
88  @current_tree_light@
89  \end{verbatim}

90
91  \begin{verbatim}
92  @current_tree@
93  \end{verbatim}

94
95  \section{Listing of files}
96  \label{section:listing}

97
98  This repository is dual licensed.
99  All the Bash scripts source code is covered by GPLv3+.
100 All the PHP scripts source code is covered by LGPLv3+.

101
102 The text of the licenses is available at:
103 \url{https://www.gnu.org/licenses/}.
104 The git repository of this source code is also available at:
105 \url{https://github.com/LLyaudet/@repository_name@/}.

106
107 Here is a listing of the dependencies of the code in this repository:
108 \begin{itemize}
109   \item The following dependencies are GPLv3+ licensed:\newline

```

```

110 basename, bash (and its builtins), cat, chmod, cp, cut, date, diff,
111 dirname, find, grep, head, mkdir, mv, realpath, rm, sed, sha512sum,
112 shellcheck, sort, tail, wc, wget, xargs
113 \item The following dependencies are GPLv2+ licensed:\newline
114 more, pandoc, pdftex, pdflatex, tree
115 \item The following dependencies are GPLv2 licensed:\newline
116 git
117 \item The following dependencies are LGPLv2.1+ licensed:\newline
118 notify-send
119 \item The following dependencies are MIT licensed:\newline
120 black, isort, mypy
121 \item php is licensed under PHP License v3.01
122 \item tex is licensed under Knuth license
123 \item pcregrep has a custom license from Cambridge University
124 \end{itemize}
125
126 Remark: Some commands listed under GPLv3+ are POSIX
127 and can have different implementations under another license;
128 for example, uutils coreutils is MIT licensed,
129 whilst GNU coreutils is GPLv3+ licensed.
130
131 @files_listing_VerbatimInput@
132
133 @acknowledgments@
134
135 \end{document}

```

## 2.43 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_checksexecshpl
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+shtpl
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/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/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 \subsection{
347   build\_\_and\_\_checks\_\_dependencies/licenses\_templates/%
348   license\_file\_header\_LGPLv3+.tex.tpl
349 }
350 \label{
351   build_and_checks_dependencies:licenses_templates:%
352   license_file_header_LGPLv3+texttpl
353 }
354

355 \VerbatimInput [numbers=left, xleftmargin=-5mm] {
356 build_and_checks_dependencies/licenses_templates/%
357 license_file_header_LGPLv3+.tex.tpl
358 }
359

360

361 \subsection{
362   build\_\_and\_\_checks\_\_dependencies/licenses/_templates/%
363   license\_file\_header\_LGPLv3+.tpl
364 }
365 \label{
366   build_and_checks_dependencies:licenses_templates:%
367   license_file_header_LGPLv3+tpl
368 }
369

370 \VerbatimInput [numbers=left, xleftmargin=-5mm] {
371 build_and_checks_dependencies/licenses_templates/%
372 license_file_header_LGPLv3+.tpl
373 }
374

375

376 \subsection{
377   build\_\_and\_\_checks\_\_dependencies/lines\_counts.libr.sh
378 }
379 \label{
380   build_and_checks_dependencies:lines_countslibrsh
381 }
382

383 \VerbatimInput [numbers=left, xleftmargin=-5mm] {
384 build_and_checks_dependencies/lines_counts.libr.sh
385 }
```

```

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\_line\_at\_most.exec.php
451 }
452 \label{
453     build_and_checks_dependencies:split_line_at_mostexecphp
454 }
455
456 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
457 build_and_checks_dependencies/split_line_at_most.exec.php
458 }
459
460
461 \subsection{
462     build_and_checks_dependencies/split\_line\_at\_most.libr.php
463 }
464 \label{
465     build_and_checks_dependencies:split_line_at_mostlibrphp
466 }
467
468 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
469 build_and_checks_dependencies/split_line_at_most.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 \subsection{
485     build_and_checks_dependencies/too_long_code_lines.libr.sh
486 }
487 \label{
488     build_and_checks_dependencies:too_long_code_lineslibrsh
489 }
490
491 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
492 build_and_checks_dependencies/too_long_code_lines.libr.sh
493 }
494
495
496 \subsection{
497     build_and_checks_dependencies/%
498 update_common_build_and_checks.exec.sh
499 }
500 \label{
501     build_and_checks_dependencies:update_common_build_and_checksexecsh
502 }
503
504 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
505 build_and_checks_dependencies/update_common_build_and_checks.exec.sh
506 }
507
508
509 \subsection{
510     build_and_checks_dependencies/%
511 update_or_check_files_names_listing.exec.sh
512 }
513 \label{
514     build_and_checks_dependencies:%
515 update_or_check_files_names_listingexecsh
516 }
517
518 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
519 build_and_checks_dependencies/%
520 update_or_check_files_names_listing.exec.sh
521 }
522
523

```

```

524 \subsection{
525   build\_\_and\_\_checks\_\_variables/.gitignore
526 }
527 \label{
528   build_and_checks_variables:gitignore
529 }
530 }
531
532 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
533 build_and_checks_variables/.gitignore
534 }
535
536
537 \subsection{
538   build\_\_and\_\_checks\_\_variables/DevOrSysAdminScripts.html.tpl
539 }
540 \label{
541   build_and_checks_variables:DevOrSysAdminScriptshtmltpl
542 }
543
544 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
545 build_and_checks_variables/DevOrSysAdminScripts.html.tpl
546 }
547
548
549 \subsection{
550   build\_\_and\_\_checks\_\_variables/DevOrSysAdminScripts.tex.tpl
551 }
552 \label{
553   build_and_checks_variables:DevOrSysAdminScriptstexttpl
554 }
555
556 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
557 build_and_checks_variables/DevOrSysAdminScripts.tex.tpl
558 }
559
560
561 \subsection{
562   build\_\_and\_\_checks\_\_variables/files\_listing.tex.tpl
563 }
564 \label{
565   build_and_checks_variables:files_listingtexttpl
566 }
567
568 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
569 build_and_checks_variables/files_listing.tex.tpl

```

```

570 }
571
572
573 \subsection{
574     build\_and\_checks\_variables/files\_names\_listing.txt
575 }
576 \label{
577     build_and_checks_variables:files_names_listingtxt
578 }
579
580 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
581 build_and_checks_variables/files_names_listing.txt
582 }
583
584
585 \subsection{
586     build\_and\_checks\_variables/licenses/_notes.txt
587 }
588 \label{
589     build_and_checks_variables:licenses_notestxt
590 }
591
592 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
593 build_and_checks_variables/licenses_notes.txt
594 }
595
596
597 \subsection{
598     build\_and\_checks\_variables/repository\_data.txt
599 }
600 \label{
601     build_and_checks_variables:repository_datatxt
602 }
603
604 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
605 build_and_checks_variables/repository_data.txt
606 }
607
608
609 \subsection{
610     build\_and\_checks.exec.sh
611 }
612 \label{
613     build_and_checksexecsh
614 }
615

```

```
616 \VerbatimInput [numbers=left, xleftmargin=-5mm] {
617 build_and_checks.exec.sh
618 }
619
620
621 \subsection{
622   COPYING
623 }
624 \label{
625   COPYING
626 }
627
628 \VerbatimInput [numbers=left, xleftmargin=-5mm] {
629 COPYING
630 }
631
632
633 \subsection{
634   COPYING.LESSER
635 }
636 \label{
637   COPYINGLESSER
638 }
639
640 \VerbatimInput [numbers=left, xleftmargin=-5mm] {
641 COPYING.LESSER
642 }
643
644
645 \subsection{
646   git\_helpers/git\_checks.libr.sh
647 }
648 \label{
649   git_helpers:git_checkslibrsh
650 }
651
652 \VerbatimInput [numbers=left, xleftmargin=-5mm] {
653 git_helpers/git_checks.libr.sh
654 }
655
656
657 \subsection{
658   git\_helpers/post-commit
659 }
660 \label{
661   git_helpers:post-commit
```

```

662 }
663
664 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
665 git_helpers/post-commit
666 }
667
668
669 \subsection{
670     git\_helpers/post\_commit\_renaming\_comment.libr.sh
671 }
672 \label{
673     git_helpers:post_commit_renaming_commentlibrsh
674 }
675
676 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
677 git_helpers/post_commit_renaming_comment.libr.sh
678 }
679
680
681 \subsection{
682     git\_helpers/pre-commit
683 }
684 \label{
685     git_helpers:pre-commit
686 }
687
688 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
689 git_helpers/pre-commit
690 }
691
692
693 \subsection{
694     LiensUtiles.txt
695 }
696 \label{
697     LiensUtilestxt
698 }
699
700 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
701 LiensUtiles.txt
702 }
703
704
705 \subsection{
706     README.md.tpl
707 }

```

```

708 \label{
709     READMEmdtpl
710 }
711
712 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
713 README.md.tpl
714 }
715
716 \subsection{
717     unicode.libr.php
718 }
719 \label{
720     unicodelibrphp
721 }
722 }
723
724 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
725 unicode.libr.php
726 }
727
728 \subsection{
729     upgrade\_build\_and\_checks.exec.sh
730 }
731 \label{
732     upgrade_build_and_checksexecsh
733 }
734 }
735
736 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
737 upgrade_build_and_checks.exec.sh
738 }
739
740 \subsection{
741     wget\_sha512.libr.sh
742 }
743 \label{
744     wget_sha512librsh
745 }
746 }
747
748 \VerbatimInput [numbers=left,xleftmargin=-5mm] {
749 wget_sha512.libr.sh
750 }
751
752

```

## 2.44 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 2023-2025 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_line_at_most.exec.php
98 build_and_checks_dependencies/split_line_at_most.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/DevOrSysAdminScripts.html.tpl
106 // build_and_checks_variables/DevOrSysAdminScripts.tex
107 build_and_checks_variables/DevOrSysAdminScripts.tex.tpl
108 build_and_checks_variables/files_listing.tex.tpl
109 build_and_checks_variables/files_names_listing.txt
110 build_and_checks_variables/licenses_notes.txt
111 build_and_checks_variables/repository_data.txt
112 build_and_checks.exec.sh
113 COPYING
114 COPYING.LESSER
115 // DevOrSysAdminScripts.html
116 // DevOrSysAdminScripts.pdf
117 // EncoreBlasé20240517-20240518.txt
118 git_helpers/git_checks.libr.sh
119 git_helpers/post-commit
120 git_helpers/post_commit_renaming_comment.libr.sh
121 git_helpers/pre-commit
122 LiensUtiles.txt
123 // README.html
124 // README.md
125 README.md.tpl
126 unicode.libr.php
127 upgrade_build_and_checks.exec.sh
128 wget_sha512.libr.sh

```

## 2.45 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
14  - The following dependencies are LGPLv2.1+ licensed:
15  notify-send
16  - The following dependencies are MIT licensed:
17  black, isort, mypy
18  - php is licensed under PHP License v3.01
19  - tex is licensed under Knuth license
20  - pcregrep has a custom license from Cambridge University
21
22 Remark: Some commands listed under GPLv3+ are POSIX
23 and can have different implementations under another license;
24 for example, uutils coreutils is MIT licensed,
25 whilst GNU coreutils is GPLv3+ licensed.

```

## 2.46 build\_and\_checks\_variables/repository\_data.txt

```

1 repository_name=DevOrSysAdminScripts
2 repository_web_url=https://github.com/LLyaudet/DevOrSysAdminScripts/
3 repository_git_url=git@github.com:LLyaudet/DevOrSysAdminScripts.git
4 abstract=Some "small" useful scripts
5 abstract=for enhancing development or system-administrators tasks
6 license=GPLv3+
7 license2=LGPLv3+
8 author_email=Laurent.Lyaudet@gmail.com
9 author_full_name=Laurent Frédéric Bernard François Lyaudet
10 author_last_name=Lyaudet
11 author_name=Laurent Lyaudet
12 author_website=https://lyaudet.eu/laurent/
13 acknowledgments=Merci Dieu !
14 acknowledgments=Merci Père ! Merci Seigneur ! Merci Saint Esprit !
15 grammar_or_spell_checker_command=more

```

## 2.47 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

```

```

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8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU 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 2023–2025 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}/${LFBFL_common_file_name}"
68 local LFBFL_correct_sha512
69 LFBFL_correct_sha512='3b8017ee0866dce4d98984956017f94b51a661e66ff0e'
70 LFBFL_correct_sha512+='a72675d63ca18f0eb6ca67c023459bdcea0220f69846'
71 LFBFL_correct_sha512+='9f46537719f514a7ccd765d9bfbe8e13df28b7e'
72 wget_sha512 "${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 build_and_checks "$@"

```

## 2.48 COPYING

```

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7
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9
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12
13         The licenses for most software and other practical works are designed
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47 changed, so that their problems will not be attributed erroneously to  
48 authors of previous versions.

49

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51 modified versions of the software inside them, although the manufacturer  
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53 protecting users' freedom to change the software. The systematic  
54 pattern of such abuse occurs in the area of products for individuals to  
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56 have designed this version of the GPL to prohibit the practice for those  
57 products. If such problems arise substantially in other domains, we  
58 stand ready to extend this provision to those domains in future versions  
59 of the GPL, as needed to protect the freedom of users.

60

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68 The precise terms and conditions for copying, distribution and  
69 modification follow.

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## 0. Definitions.

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<sup>77</sup> "Copyright" also means copyright-like laws that apply to other kinds of  
<sup>78</sup> works, such as semiconductor masks.

80 "The Program" refers to any copyrightable work licensed under this  
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82 "recipients" may be individuals or organizations.

84 To "modify" a work means to copy from or adapt all or part of the work  
85 in a fashion requiring copyright permission, other than the making of an  
86 exact copy. The resulting work is called a "modified version" of the  
87 earlier work or a work "based on" the earlier work.

89 A "covered work" means either the unmodified Program or a work based  
90 on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

99 To "convey" a work means any kind of propagation that enables other  
100 parties to make or receive copies. Mere interaction with a user through  
101 a computer network, with no transfer of a copy, is not conveying.

103 An interactive user interface displays "Appropriate Legal Notices"  
104 to the extent that it includes a convenient and prominently visible  
105 feature that (1) displays an appropriate copyright notice, and (2)  
106 tells the user that there is no warranty for the work (except to the

107 extent that warranties are provided), that licensees may convey the  
108 work under this License, and how to view a copy of this License. If  
109 the interface presents a list of user commands or options, such as a  
110 menu, a prominent item in the list meets this criterion.

111       1. Source Code.

112       The "source code" for a work means the preferred form of the work  
113       for making modifications to it. "Object code" means any non-source  
114       form of a work.

115       A "Standard Interface" means an interface that either is an official  
116       standard defined by a recognized standards body, or, in the case of  
117       interfaces specified for a particular programming language, one that  
118       is widely used among developers working in that language.

119       The "System Libraries" of an executable work include anything, other  
120       than the work as a whole, that (a) is included in the normal form of  
121       packaging a Major Component, but which is not part of that Major  
122       Component, and (b) serves only to enable use of the work with that  
123       Major Component, or to implement a Standard Interface for which an  
124       implementation is available to the public in source code form. A  
125       "Major Component", in this context, means a major essential component  
126       (kernel, window system, and so on) of the specific operating system  
127       (if any) on which the executable work runs, or a compiler used to  
128       produce the work, or an object code interpreter used to run it.

129       The "Corresponding Source" for a work in object code form means all  
130       the source code needed to generate, install, and (for an executable  
131       work) run the object code and to modify the work, including scripts to  
132       control those activities. However, it does not include the work's  
133       System Libraries, or general-purpose tools or generally available free  
134       programs which are used unmodified in performing those activities but  
135       which are not part of the work. For example, Corresponding Source  
136       includes interface definition files associated with source files for  
137       the work, and the source code for shared libraries and dynamically  
138       linked subprograms that the work is specifically designed to require,  
139       such as by intimate data communication or control flow between those  
140       subprograms and other parts of the work.

141       The Corresponding Source need not include anything that users  
142       can regenerate automatically from other parts of the Corresponding  
143       Source.

144       The Corresponding Source for a work in source code form is that  
145       same work.

153  
154       2. Basic Permissions.

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158       conditions are met. This License explicitly affirms your unlimited  
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160       covered work is covered by this License only if the output, given its  
161       content, constitutes a covered work. This License acknowledges your  
162       rights of fair use or other equivalent, as provided by copyright law.

163  
164       You may make, run and propagate covered works that you do not  
165       convey, without conditions so long as your license otherwise remains  
166       in force. You may convey covered works to others for the sole purpose  
167       of having them make modifications exclusively for you, or provide you  
168       with facilities for running those works, provided that you comply with  
169       the terms of this License in conveying all material for which you do  
170       not control copyright. Those thus making or running the covered works  
171       for you must do so exclusively on your behalf, under your direction  
172       and control, on terms that prohibit them from making any copies of  
173       your copyrighted material outside their relationship with you.

174  
175       Conveying under any other circumstances is permitted solely under  
176       the conditions stated below. Sublicensing is not allowed; section 10  
177       makes it unnecessary.

178  
179       3. Protecting Users' Legal Rights From Anti-Circumvention Law.

180  
181       No covered work shall be deemed part of an effective technological  
182       measure under any applicable law fulfilling obligations under article  
183       11 of the WIPO copyright treaty adopted on 20 December 1996, or  
184       similar laws prohibiting or restricting circumvention of such  
185       measures.

186  
187       When you convey a covered work, you waive any legal power to forbid  
188       circumvention of technological measures to the extent such circumvention  
189       is effected by exercising rights under this License with respect to  
190       the covered work, and you disclaim any intention to limit operation or  
191       modification of the work as a means of enforcing, against the work's  
192       users, your or third parties' legal rights to forbid circumvention of  
193       technological measures.

194  
195       4. Conveying Verbatim Copies.

196  
197       You may convey verbatim copies of the Program's source code as you  
198       receive it, in any medium, provided that you conspicuously and

199 appropriately publish on each copy an appropriate copyright notice;  
200 keep intact all notices stating that this License and any  
201 non-permissive terms added in accord with section 7 apply to the code;  
202 keep intact all notices of the absence of any warranty; and give all  
203 recipients a copy of this License along with the Program.

204  
205 You may charge any price or no price for each copy that you convey,  
206 and you may offer support or warranty protection for a fee.

207  
208 5. Conveying Modified Source Versions.  
209

210 You may convey a work based on the Program, or the modifications to  
211 produce it from the Program, in the form of source code under the  
212 terms of section 4, provided that you also meet all of these conditions:

213  
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  
218 released under this License and any conditions added under section  
219 7. This requirement modifies the requirement in section 4 to  
220 "keep intact all notices".

221  
222 c) You must license the entire work, as a whole, under this  
223 License to anyone who comes into possession of a copy. This  
224 License will therefore apply, along with any applicable section 7  
225 additional terms, to the whole of the work, and all its parts,  
226 regardless of how they are packaged. This License gives no  
227 permission to license the work in any other way, but it does not  
228 invalidate such permission if you have separately received it.

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230 d) If the work has interactive user interfaces, each must display  
231 Appropriate Legal Notices; however, if the Program has interactive  
232 interfaces that do not display Appropriate Legal Notices, your  
233 work need not make them do so.

234  
235 A compilation of a covered work with other separate and independent  
236 works, which are not by their nature extensions of the covered work,  
237 and which are not combined with it such as to form a larger program,  
238 in or on a volume of a storage or distribution medium, is called an  
239 "aggregate" if the compilation and its resulting copyright are not  
240 used to limit the access or legal rights of the compilation's users  
241 beyond what the individual works permit. Inclusion of a covered work  
242 in an aggregate does not cause this License to apply to the other  
243 parts of the aggregate.

245        6. Conveying Non-Source Forms.

246

247        You may convey a covered work in object code form under the terms  
248        of sections 4 and 5, provided that you also convey the  
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

297 A "User Product" is either (1) a "consumer product", which means any  
298 tangible personal property which is normally used for personal, family,  
299 or household purposes, or (2) anything designed or sold for incorporation  
300 into a dwelling. In determining whether a product is a consumer product,  
301 doubtful cases shall be resolved in favor of coverage. For a particular  
302 product received by a particular user, "normally used" refers to a  
303 typical or common use of that class of product, regardless of the status  
304 of the particular user or of the way in which the particular user  
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  
307 commercial, industrial or non-consumer uses, unless such uses represent  
308 the only significant mode of use of the product.

309

310 "Installation Information" for a User Product means any methods,  
311 procedures, authorization keys, or other information required to install  
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

318 If you convey an object code work under this section in, or with, or  
319 specifically for use in, a User Product, and the conveying occurs as  
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  
331 for a work that has been modified or installed by the recipient, or for  
332 the User Product in which it has been modified or installed. Access to a  
333 network may be denied when the modification itself materially and  
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.

342  
343        7. Additional Terms.

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369            Notices displayed by works containing it; or
- 371            c) Prohibiting misrepresentation of the origin of that material, or  
372            requiring that modified versions of such material be marked in  
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394 License, you may add to a covered work material governed by the terms  
395 of that license document, provided that the further restriction does  
396 not survive such relicensing or conveying.

397  
398 If you add terms to a covered work in accord with this section, you  
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403 Additional terms, permissive or non-permissive, may be stated in the  
404 form of a separately written license, or stated as exceptions;  
405 the above requirements apply either way.

406  
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431       this License. If your rights have been terminated and not permanently  
432       reinstated, you do not qualify to receive new licenses for the same  
433       material under section 10.

434

435       9. Acceptance Not Required for Having Copies.

436

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438       run a copy of the Program. Ancillary propagation of a covered work  
439       occurring solely as a consequence of using peer-to-peer transmission  
440       to receive a copy likewise does not require acceptance. However,  
441       nothing other than this License grants you permission to propagate or  
442       modify any covered work. These actions infringe copyright if you do  
443       not accept this License. Therefore, by modifying or propagating a  
444       covered work, you indicate your acceptance of this License to do so.

445

446       10. Automatic Licensing of Downstream Recipients.

447

448       Each time you convey a covered work, the recipient automatically  
449       receives a license from the original licensors, to run, modify and  
450       propagate that work, subject to this License. You are not responsible  
451       for enforcing compliance by third parties with this License.

452

453       An "entity transaction" is a transaction transferring control of an  
454       organization, or substantially all assets of one, or subdividing an  
455       organization, or merging organizations. If propagation of a covered  
456       work results from an entity transaction, each party to that  
457       transaction who receives a copy of the work also receives whatever  
458       licenses to the work the party's predecessor in interest had or could  
459       give under the previous paragraph, plus a right to possession of the  
460       Corresponding Source of the work from the predecessor in interest, if  
461       the predecessor has it or can get it with reasonable efforts.

462

463       You may not impose any further restrictions on the exercise of the  
464       rights granted or affirmed under this License. For example, you may  
465       not impose a license fee, royalty, or other charge for exercise of  
466       rights granted under this License, and you may not initiate litigation  
467       (including a cross-claim or counterclaim in a lawsuit) alleging that  
468       any patent claim is infringed by making, using, selling, offering for  
469       sale, or importing the Program or any portion of it.

470

471       11. Patents.

472

473       A "contributor" is a copyright holder who authorizes use under this  
474       License of the Program or a work on which the Program is based. The

475 work thus licensed is called the contributor's "contributor version".

476

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632 the "copyright" line and a pointer to where the full notice is found.

```
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635 Copyright (C) <year>  <name of author>
```

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<sup>649</sup> See also the discussion of the relationship between the two in the previous section.

651  
652 If the program does terminal interaction, make it output a short

```
655 <program> Copyright (C) <year> <name of author>
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```

659  
660 The hypothetical commands 'show w' and 'show c' should show the appropriate  
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663  
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21 An "Application" is any work that makes use of an interface provided  
22 by the Library, but which is not otherwise based on the Library.  
23 Defining a subclass of a class defined by the Library is deemed a mode  
24 of using an interface provided by the Library.  
25  
26 A "Combined Work" is a work produced by combining or linking an

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

32 The "Minimal Corresponding Source" for a Combined Work means the  
33 Corresponding Source for the Combined Work, excluding any source code  
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35 based on the Application, and not on the Linked Version.

36

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38 object code and/or source code for the Application, including any data  
39 and utility programs needed for reproducing the Combined Work from the  
40 Application, but excluding the System Libraries of the Combined Work.

41

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43

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46

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48

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50 facility refers to a function or data to be supplied by an Application  
51 that uses the facility (other than as an argument passed when the  
52 facility is invoked), then you may convey a copy of the modified  
53 version:

54

55 a) under this License, provided that you make a good faith effort to  
56 ensure that, in the event an Application does not supply the  
57 function or data, the facility still operates, and performs  
58 whatever part of its purpose remains meaningful, or

59

60 b) under the GNU GPL, with none of the additional permissions of  
61 this License applicable to that copy.

62

63 3. Object Code Incorporating Material from Library Header Files.

64

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66 a header file that is part of the Library. You may convey such object  
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68 material is not limited to numerical parameters, data structure  
69 layouts and accessors, or small macros, inline functions and templates  
70 (ten or fewer lines in length), you do both of the following:

71

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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

77 document.

78

79 4. Combined Works.

80

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82 taken together, effectively do not restrict modification of the

83 portions of the Library contained in the Combined Work and reverse

84 engineering for debugging such modifications, if you also do each of

85 the following:

86

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89 covered by this License.

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92 document.

93

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.

129  
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  
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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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149 differ in detail to address new problems or concerns.

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151 Each version is given a distinguishing version number. If the  
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165 Library.

## 2.50 git\_helpers/git\_checks.libr.sh

```
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22 #
23 # ©Copyright 2023-2025 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 }
```

## 2.51 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

```

## 2.52 git\_helpers/post\_commit\_renaming\_comment.libr.sh

```

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21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2025 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: ${LFBFL_max_comment_line_length}"
79 fi
#-----
81
82 # shellcheck disable=SC2155
83 declare -r LFBFL_renaming_lines=$(
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: ${LFBFL_timestamp}"
100 fi
101 get_split_score_after_before_simple\
102     "${LFBFL_max_comment_line_length}" \
103 # shellcheck disable=SC2154
104 LFBFL_split_score_command1="${get_split_score_after_before_result}"
105 # shellcheck disable=SC2154
106 LFBFL_split_score_command_properties1=\
107 "${get_split_score_after_before_result2}"
108 get_split_score_after_before_simple\
109     "${LFBFL_max_comment_line_length}" /
110 # shellcheck disable=SC2154
111 LFBFL_split_score_command2="${get_split_score_after_before_result}"
112 # shellcheck disable=SC2154
113 LFBFL_split_score_command_properties2=\
114 "${get_split_score_after_before_result2}"
115 declare -i LFBFL_renaming_happened=0
116 declare -i LFBFL_i
117 # declare -r LFBFL_special_file_name="files_names_listing.txt"
118 declare -r LFBFL_sfn="files_names_listing.txt"
119 for ((LFBFL_i=0; LFBFL_i<${#LFBFL_renaming_lines_array[@]};)); do
120     # shellcheck disable=SC2250
121     local LFBFL_diff_line="${LFBFL_renaming_lines_array[$LFBFL_i]}"

```

```

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

```

```

168     echo "LFBFL_new_file_directory: ${LFBFL_new_file_directory}"
169 fi
170 # Extract "LFBFL_extension" with smart guessing for .tpl -----
171 # and set prefix for line with ©Copyright. -----
172 local LFBFL_useful_file_name="${LFBFL_new_file_name}"
173 local LFBFL_extension="${LFBFL_useful_file_name##*.}"
174 # shellcheck disable=SC2250
175 if [[ $LFBFL_verbose -eq 1 ]]; then
176     echo "LFBFL_useful_file_name: ${LFBFL_useful_file_name}"
177     echo "LFBFL_extension: ${LFBFL_extension}"
178 fi
179 declare -i LFBFL_j
180 for ((LFBFL_j=0; LFBFL_j<3; ++LFBFL_j)); do
181     if [[ "${LFBFL_extension}" != "tpl" ]]; then
182         break
183     fi
184     LFBFL_useful_file_name="${LFBFL_useful_file_name:0:-4}"
185     LFBFL_extension="${LFBFL_useful_file_name##*.}"
186     # shellcheck disable=SC2250
187     if [[ $LFBFL_verbose -eq 1 ]]; then
188         echo "LFBFL_useful_file_name: ${LFBFL_useful_file_name}"
189         echo "LFBFL_extension: ${LFBFL_extension}"
190     fi
191 done
192 local LFBFL_comment_prefix=""
193 if [[ "${LFBFL_extension}" == "sh" ]]; then
194     LFBFL_comment_prefix="# "
195 fi
196 if [[ "${LFBFL_extension}" == "sql" ]]; then
197     LFBFL_comment_prefix="-- "
198 fi
199 if [[ "${LFBFL_extension}" == "tex" ]]; then
200     LFBFL_comment_prefix="% "
201 fi
202 if [[ "${LFBFL_useful_file_name}" == "${LFBFL_sfn}" ]]; then
203     LFBFL_comment_prefix="// "
204 fi
205 # shellcheck disable=SC2250
206 if [[ $LFBFL_verbose -eq 1 ]]; then
207     echo "LFBFL_comment_prefix: ${LFBFL_comment_prefix}"
208 fi
209 #-----
210 # Split if necessary old_file_name, new_file_name, etc. to have
211 # comment lines below max_comment_line_length.
212 local LFBFL_comment_prefix2="${LFBFL_comment_prefix}''"
213 # ----

```

```

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

```

```

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

```

```

306     fi
307     # Compute number of lines after. -----
308     # shellcheck disable=SC2155
309     declare -i LFBFL_lines_after=$(((
310         LFBFL_line_count - LFBFL_copyright_line_number
311     )))
312     # shellcheck disable=SC2250
313     if [[ $LFBFL_verbose -eq 1 ]]; then
314         echo "LFBFL_lines_after: ${LFBFL_lines_after}"
315     fi
316     # Update file. -----
317     local LFBFL_temp_file_path="${LFBFL_new_file_path}.LFBFL.temp"
318     head --lines="${LFBFL_copyright_line_number}" \
319         "${LFBFL_new_file_path}" > "${LFBFL_temp_file_path}"
320     echo -e "${LFBFL_new_comment}" >> "${LFBFL_temp_file_path}"
321     tail --lines="${LFBFL_lines_after}" \
322         "${LFBFL_new_file_path}" >> "${LFBFL_temp_file_path}"
323     mv "${LFBFL_temp_file_path}" "${LFBFL_new_file_path}"
324     # Add file to stage. -----
325     git add "${LFBFL_new_file_path}"
326     LFBFL_renaming_happened=1
327     fi
328 done
329 readonly LFBFL_renaming_happened
330 if [[ LFBFL_renaming_happened -eq 1 ]]; then
331     # Commit -----
332     local LFBFL_message="commit_a_file_renamed_comment()"
333     LFBFL_message+=" post-commit hook, ${LFBFL_timestamp}."
334     readonly LFBFL_message
335     git commit --message="${LFBFL_message}"
336     fi
337 }

```

## 2.53 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

```

## 2.54 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 -----

```

## 2.55 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
8 |           **Some "small" useful scripts**          |
9 |:-----:|
10 | **for enhancing development or system-administrators tasks** |
11
12 Currently, the biggest part of this repository is in
13 a suite of shell scripts about build and checks that
14 I use in some of my other repositories.
15
16 I tried to follow some conventions for my bash code:
17
18 - I tried to encapsulate most of the code in functions.
19 - Unless used as return values, variables in functions are defined
20   as local variables ('local' keyword or 'declare')
21   with prefix "LFBFL_".
22 - When used as return values, variables in functions are defined
23   as global variables ('declare -g') with prefix
24   "@function_name@_result_".
25 - Whenever a variable is no more modified after some point,
26   add the keyword 'readonly' or use 'declare -r'.
27 - Whenever a variable will only contain integer values (or boolean
28   values as 0 or 1), use 'declare -i'.
29 - I named bash files with suffixes ".exec.sh" when the script can
30   be runned
31   (executable, abbreviation stops before a vowel).

```

```

32   - I named bash files with suffixes ".libr.sh" when the script contains
33       only functions definitions
34       (library, abbreviation stops before a vowel).
35   - When some ".exec.sh" code is encapsulated into functions,
36       either these functions can be reused and go in some ".libr.sh" file,
37       either they are truly specific to this script and they are kept
38       in ".exec.sh" file.
39
40 But the files "pre-commit" and "post-commit" were not renamed,
41 since it is not possible to give them other names to use them as
42 pre-commit/post-commit hooks in 'git'.
43
44 [CodeFactor-badge]: https://www.codefactor.io/repository/github/\
45 llyaudet/DevOrSysAdminScripts/badge
46
47 [CodeFactor-package-page]: https://www.codefactor.io/repository/\ \
48 github/llyaudet/DevOrSysAdminScripts
49
50 [Codacy-badge]: https://app.codacy.com/project/badge/Grade/\
51 3dd6ef85e8db4460991d1ebc404b68dd
52
53 [Codacy-package-page]: https://app.codacy.com/gh/LLyaudet/\
54 DevOrSysAdminScripts/dashboard?utm_source=gh&utm_medium=referral\
55 &utm_content=&utm_campaign=Badge_grade
56
57 [GitHub-top-language-badge]: https://img.shields.io/github/\ \
58 languages/top/llyaudet/DevOrSysAdminScripts
59
60 [GitHub-code-size-in-bytes-badge]: https://img.shields.io/github/\ \
61 languages/code-size/llyaudet/DevOrSysAdminScripts

```

## 2.56 **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 2023–2025 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

```

## 2.57 upgrade\_build\_and\_checks.exec.sh

```

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3 #
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22 #
23 # ©Copyright 2023-2025 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 [[ "$1" == "--verbose" ]]; then
30         echo "$0 $*"
31         LFBFL_verbose="--verbose"
32     fi
33     readonly LFBFL_verbose
34     (\ \
35         cd build_and_checks_dependencies/\
36         && ./update_common_build_and_checks.exec.sh "${LFBFL_verbose}" \
37     )

```

```

38     ./build_and_checks.exec.sh "." "${LFBFL_verbose}"
39 }
40
41 upgrade_build_and_checks "$@"

```

## 2.58 wget\_sha512.libr.sh

```

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22 #
23 # ©Copyright 2023–2025 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 !