

# DevOrSysAdminScripts

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## Abstract

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

Current version: 2024-05-19

Current number of commits: 127

Current git SHA1: 2defb27ef681186148879ba0693e96ef0f6fe747

Code lines: 4502 total lines, 4023 not empty lines, 479 empty lines.

## 1 Files tree

```
.
├── build_and_checks_dependencies
│   ├── build_and_checks.sh.tpl
│   ├── build_md_from_printable_md.sh
│   ├── call_split_score_after_before_or_before_after.php
│   ├── check_shell_scripts_beginnings.sh
│   ├── check_URLs.sh
│   ├── common_build_and_checks.sh
│   ├── common_build_and_checks.sh.tpl
│   ├── comparisons.sh
│   ├── create_PDF.sh
│   ├── generate_from_template.sh
│   ├── get_common_text_glob_patterns.sh
│   ├── grammar_and_spell_check.sh
│   └── licenses_templates
│       ├── build_licenses_templates.sh
│       ├── license_file_header_GPLv3+.c.tpl
│       ├── license_file_header_GPLv3+.py.tpl
│       ├── license_file_header_GPLv3+.sh.tpl
│       ├── license_file_header_GPLv3+.tex.tpl
│       └── license_file_header_GPLv3+.tpl
```

- └─ license\_file\_header\_LGPLv3+.c
- └─ license\_file\_header\_LGPLv3+.c.tpl
- └─ license\_file\_header\_LGPLv3+.py
- └─ license\_file\_header\_LGPLv3+.py.tpl
- └─ license\_file\_header\_LGPLv3+.sh
- └─ license\_file\_header\_LGPLv3+.sh.tpl
- └─ license\_file\_header\_LGPLv3+.tex
- └─ license\_file\_header\_LGPLv3+.tex.tpl
- └─ license\_file\_header\_LGPLv3+.tpl
- ─ lines\_counts.sh
- ─ lines\_filters.sh
- ─ lines\_maps.sh
- ─ listings
  - └─ files\_listing.tex.tpl
  - └─ files\_names\_listing.txt
  - └─ update\_or\_check\_files\_names\_listing.sh
- ─ overwrite\_if\_not\_equal.sh
- ─ python\_black\_complement.sh
- ─ python\_isort\_complement.sh
- ─ split\_line\_at\_most.php
- ─ string\_functions.sh
- ─ too\_long\_code\_lines.sh
- ─ update\_common\_build\_and\_checks.sh
- ─ build\_and\_checks.sh
- ─ COPYING
- ─ COPYING.LESSER
- ─ DevOrSysAdminScripts.html
- ─ DevOrSysAdminScripts.pdf
- ─ git\_checks.sh
- ─ latex
  - └─ DevOrSysAdminScripts.tex
  - └─ DevOrSysAdminScripts.tex.tpl
- ─ LiensUtiles.txt
- ─ pre-commit
- ─ README.md
- ─ README.md.tpl
- ─ repository\_data.txt
- ─ unicode.php
- ─ upgrade\_build\_and\_checks.sh
- ─ wget\_sha512.sh

5 directories, 56 files

```
[ 12K May 19 03:47] ./
└─ [4.0K May 19 03:47] build_and_checks_dependencies/
  └─ [1.5K May 17 01:12] build_and_checks.sh.tpl*
```

```

— [1.7K May 16 13:46] build_md_from_printable_md.sh*
— [1.5K May 17 17:20] *
  call_split_score_after_before_or_before_after.php**
— [1.2K May 16 19:53] check_shell_scripts_beginnings.sh
— [1.9K May 16 15:23] check_URLs.sh
— [9.1K May 19 03:47] common_build_and_checks.sh*
— [6.1K May 18 06:48] common_build_and_checks.sh.tpl
— [3.0K May 18 18:42] comparisons.sh
— [8.1K May 19 03:38] create_PDF.sh*
— [2.8K May 18 23:57] generate_from_template.sh
— [1.7K May 16 02:42] get_common_text_glob_patterns.sh
— [1.5K May 16 20:01] grammar_and_spell_check.sh
— [4.0K May 19 03:47] licenses_templates/
  — [5.1K May 16 19:58] build_licenses_templates.sh*
  — [ 713 May 16 14:58] license_file_header_GPLv3+.c.tpl
  — [ 715 May 16 14:58] license_file_header_GPLv3+.py.tpl
  — [ 747 May 16 14:58] license_file_header_GPLv3+.sh.tpl
  — [ 747 May 16 14:58] license_file_header_GPLv3+.tex.tpl
  — [ 707 May 14 23:23] license_file_header_GPLv3+.tpl
  — [ 782 May 16 14:58] license_file_header_LGPLv3+.c
  — [ 734 May 16 14:58] license_file_header_LGPLv3+.c.tpl
  — [ 784 May 16 14:58] license_file_header_LGPLv3+.py
  — [ 736 May 16 14:58] license_file_header_LGPLv3+.py.tpl
  — [ 816 May 16 14:58] license_file_header_LGPLv3+.sh
  — [ 768 May 16 14:58] license_file_header_LGPLv3+.sh.tpl
  — [ 816 May 16 14:58] license_file_header_LGPLv3+.tex
  — [ 768 May 16 14:58] license_file_header_LGPLv3+.tex.tpl
  — [ 728 May 14 23:24] license_file_header_LGPLv3+.tpl
— [1.7K May 16 15:15] lines_counts.sh
— [5.8K May 19 00:37] lines_filters.sh
— [2.7K May 18 06:43] lines_maps.sh
— [4.0K May 19 03:46] listings/
  — [ 13K May 19 03:40] files_listing.tex.tpl
  — [2.9K May 19 03:05] files_names_listing.txt
  — [3.6K May 19 02:16] *
  | update_or_check_files_names_listing.sh**
— [1.1K May 16 15:32] overwrite_if_not_equal.sh
— [1.3K May 16 02:43] python_black_complement.sh
— [1.5K May 16 15:27] python_isort_complement.sh
— [2.0K May 17 16:28] split_line_at_most.php
— [7.0K May 19 02:45] string_functions.sh
— [1.2K May 16 15:32] too_long_code_lines.sh
— [2.5K May 18 06:45] update_common_build_and_checks.sh*
— [1.6K May 19 03:47] build_and_checks.sh*
— [ 34K May  6 00:49] COPYING
— [7.5K May  6 00:49] COPYING.LESSER

```

```

├── [ 15K May 14 18:40] DevOrSysAdminScripts.html
├── [169K May 19 03:46] DevOrSysAdminScripts.pdf
├── [2.5K May 16 15:31] git_checks.sh
├── [4.0K May 19 03:47] latex/
│   ├── [2.7K May 19 03:47] DevOrSysAdminScripts.tex
│   └── [2.5K May 19 03:43] DevOrSysAdminScripts.tex.tpl
├── [ 424 May  6 00:49] LiensUtiles.txt
├── [1.1K May 16 02:44] pre-commit
├── [1.6K May 16 14:58] README.md
├── [1.6K May 15 18:00] README.md.tpl
├── [ 629 May 19 02:09] repository_data.txt
├── [6.1K May 18 06:39] unicode.php
├── [ 935 May 18 21:08] upgrade_build_and_checks.sh*
└── [1.2K May 16 15:27] wget_sha512.sh

```

5 directories, 56 files

## 2 Listing of files

The following source code is covered by LGPLv3+. The text of the license is available at: <https://www.gnu.org/licenses/>. The git repository of this source code is also available at: <https://github.com/LLyaudet/DevOrSysAdminScripts/>.

### 2.1 build\_and\_checks\_dependencies/build\_and\_checks.sh.tpl

```

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

```

```

21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 source ./wget_sha512.sh
26
27 mkdir -p build_and_checks_dependencies/licenses_templates
28 mkdir -p build_and_checks_dependencies/listings
29 subdir="build_and_checks_dependencies"
30
31 personal_github="https://raw.githubusercontent.com/LLyaudet/"
32 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
33 URL_beginning="$personal_github$dependencies"
34
35 script="$URL_beginning/common_build_and_checks.sh"
36 @sha512_common_build_and_checks.sh@
37 wget_sha512 "$subdir/common_build_and_checks.sh" "$script" \
38     "$correct_sha512"
39 chmod +x "$subdir/common_build_and_checks.sh"
40
41 cwd="."
42 if [[ -n "$1" ]];
43 then
44     cwd="$1"
45 fi
46
47 ./build_and_checks_dependencies/common_build_and_checks.sh "$cwd"

```

## 2.2 build\_and\_checks\_dependencies/build\_md\_from\_printable\_md.sh

```

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

```

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23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/overwrite_if_not_equal.sh"
27
28 sed_expression='s/(\[[a-zA-Z0-9:-]*\]): [^\n\\]*\\\\n/\\1/Mg'
29 sed_expression+=';s/(<http[^\n\\]*\\\\n/\\1/Mg'
30 sed_expression+=';s/(- <http[^\n\\]*\\\\n/\\1/Mg'
31
32 pushd .
33 if [[ -n "$1" ]];
34 then
35     cd "$1"
36 fi
37
38 if [[ -n "$2" ]];
39 then
40     file_name="$2"
41 else
42     file_name="README"
43 fi
44
45 if [[ -f "${file_name}.md.tpl" ]];
46 then
47     sed -Ez "$sed_expression" "${file_name}.md.tpl" \
48         > "${file_name}_temp1.md"
49     sed -Ez "$sed_expression" "${file_name}_temp1.md" \
50         > "${file_name}_temp2.md"
51     sed -Ez "$sed_expression" "${file_name}_temp2.md" \
52         > "${file_name}_temp3.md"
53     sed -Ez "$sed_expression" "${file_name}_temp3.md" \
54         > "${file_name}_temp4.md"
55     overwrite_if_not_equal "${file_name}.md" "${file_name}_temp4.md"
56     rm "${file_name}_temp1.md" "${file_name}_temp2.md" \
57         "${file_name}_temp3.md"
58 else
59     echo "No file ${file_name}.md.tpl"
60 fi
61
62 popd

```

## 2.3 build\_and\_checks\_dependencies/call\_split\_score\_after\_before\_or\_before\_after.php

```
1  #!/usr/bin/php
2  <?php
3  /*
4  This file is part of DevOrSysAdminScripts library.
5
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22 along with DevOrSysAdminScripts.
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24
25 ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
26 */
27
28 require_once(
29     './build_and_checks_dependencies/split_line_at_most.php'
30 );
31
32 /*
33 php -r\
34     '$require_once(\'./build_and_checks_dependencies/\
35     $split_line_at_most.php\'); echo(generate_split_score_after_before\'
36     $(70, [\'/\']) (\'/\', 60, true));\'
37 */
38
39 $after_before = $argv[1];
40
41 if($after_before){
42     echo(
43         generate_split_score_after_before(
44             // $argv[1], array_slice($argv, 5)
```

```

45     //) ($argv[3], $argv[2], $argv[4])
46     // $argv[1], explode(',', $argv[2]),
47     //) ($argv[3], $argv[4], $argv[5])
48     (int) $argv[2], explode(',', $argv[3]),
49     ) ($argv[4], (int) $argv[5], $argv[6])
50 );
51 exit();
52 }
53
54 echo (
55     generate_split_score_before_after(
56         (int) $argv[2], explode(',', $argv[3]),
57     ) ($argv[4], (int) $argv[5], $argv[6])
58 );

```

## 2.4 build\_and\_checks\_dependencies/check\_shell\_scripts\_beginnings.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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24
25 check_one_shell_script_beginning() {
26     LFBFL_file_name=$(basename "$1")
27     if [[ "$LFBFL_file_name" =~ license_file_header_.*\.sh ]];
28     then
29         return 0

```



```

30     fi
31     diff <(head -n 1 "$1") <(echo '#!/usr/bin/env bash')
32 }
33
34
35 check_shell_scripts_beginnings() {
36     shopt -s globstar
37     for check_shell_scripts_beginnings_var_i in **/*.sh; do
38         check_one_shell_script_beginning\
39             "$check_shell_scripts_beginnings_var_i"
40     done
41 }

```

## 2.5 build\_and\_checks\_dependencies/check\_URLs.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
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24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27
28 check_URLs() {
29     get_common_text_files_glob_patterns
30
31     declare -A LFBFL_substitutions

```

```

32 LFBFL_substitutions=(\
33   ["http://www.gnu.org/licenses/"]="https://www.gnu.org/licenses/"\
34 )
35
36 for LFBFL_pattern in "${common_file_patterns[@]"; do
37   [ "$1" != "-v" ] || echo "Iterating on pattern: $LFBFL_pattern"
38   find . -type f -name "$LFBFL_pattern" -printf '%P\n'\
39     | xargs grep -H 'http:'\
40     | grep -v "^[^:]*check_URLs.sh:"
41   for LFBFL_file_name in $LFBFL_pattern; do
42     [ -f "$LFBFL_file_name" ] || continue
43     LFBFL_base_file_name=$(basename "$LFBFL_file_name")
44     [ "$LFBFL_base_file_name" != "check_URLs.sh" ] || continue
45     [ "$1" != "-v" ] || echo "Handling the file: $LFBFL_file_name"
46     for LFBFL_substitution in "${!LFBFL_substitutions[@]"; do
47       LFBFL_substitution2=\
48 ${LFBFL_substitutions[$LFBFL_substitution]}
49       if grep -q "$LFBFL_substitution" "$LFBFL_file_name"; then
50         sed -i "s|$LFBFL_substitution|$LFBFL_substitution2|g"\
51           "$LFBFL_file_name"
52       fi
53     done
54   done
55 done
56 }

```

## 2.6 build\_and\_checks\_dependencies/common\_build\_and\_checks.sh

```

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

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24
25 source ./wget_sha512.sh
26
27 personal_github="https://raw.githubusercontent.com/LLyaudet/"
28 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
29 URL_beginning="$personal_github$dependencies"
30
31 subdir="build_and_checks_dependencies"
32
33 script="$URL_beginning/build_md_from_printable_md.sh"
34 correct_sha512='5231a90246a58da4bb27440edd3281c02b05e29cd9b1bfe340a25'
35 correct_sha512+='7eefcf7df82f70ed3ce95a112bc03710839b2dfde066317c938f'
36 correct_sha512+='302bc599f8d293d45910b8a'
37 wget_sha512 "$subdir/build_md_from_printable_md.sh" "$script" \
38     "$correct_sha512"
39 chmod +x "$subdir/build_md_from_printable_md.sh"
40
41 script="$URL_beginning/check_shell_scripts_beginnings.sh"
42 correct_sha512='d94931d4b20b7987aed4dd02663ad5feba3389c8fdea2fdbfb91d'
43 correct_sha512+='0b71eed4ef80c8d4a8eef5c147837183b2c9ed6d577cda3ad67f'
44 correct_sha512+='6d6485a015eac56fa0daa3b'
45 wget_sha512 "$subdir/check_shell_scripts_beginnings.sh" "$script" \
46     "$correct_sha512"
47
48 script="$URL_beginning/check_URLs.sh"
49 correct_sha512='d83cac890cc02fabaed5612ff59dd581e4e42e4f9de5710ad80bb'
50 correct_sha512+='41db46f9e2ec6f5bddb6006e209e81d45432a908717d10188ebc'
51 correct_sha512+='a623b1493e4098dd78cd80b'
52 wget_sha512 "$subdir/check_URLs.sh" "$script" "$correct_sha512"
53
54 script="$URL_beginning/comparisons.sh"
55 correct_sha512='0ee812694f1cb1666f02351e96642445c18b9b288bebfa88a6ddd'
56 correct_sha512+='dbe465d8bc2413f08cce766c4f02ff66c95bdd3d6e448069520f'
57 correct_sha512+='17ee0c04c19a5c52c3c7380'
58 wget_sha512 "$subdir/comparisons.sh" "$script" "$correct_sha512"
59
60 script="$URL_beginning/create_PDF.sh"
61 correct_sha512='95b4a64ad3207a36c6168d333cd79ef6e8e57250373d48068b20a'
62 correct_sha512+='294796065e9c0c348e198971b068d2b98d68fa6efe023fe09d7c'
63 correct_sha512+='99822bbdac7e9041a619c41'
64 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"

```

```

65  chmod +x "$subdir/create_PDF.sh"
66
67  script="$URL_beginning/generate_from_template.sh"
68  correct_sha512='36c92a15b93f199d28476bfa83612e3e9dd5153b9cc8ed2013bf6'
69  correct_sha512+='e8e87a041e5f07935357d1e9dce76b3901ecf9d25eee8d99e47c'
70  correct_sha512+='19cc6a1384a0fc2feb76b49'
71  wget_sha512 "$subdir/generate_from_template.sh" "$script" \
72    "$correct_sha512"
73
74  script="$URL_beginning/get_common_text_glob_patterns.sh"
75  correct_sha512='cd341e8fd1074d53f6ea88b332fc4375f06af0e4c0b56e1ddb39c'
76  correct_sha512+='8ab988ea5f0c21ec4088fe1946ae44f3ea7ba394f558c03a446f'
77  correct_sha512+='0971482a4a7a8d6fe041153'
78  wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script" \
79    "$correct_sha512"
80
81  script="$URL_beginning/grammar_and_spell_check.sh"
82  correct_sha512='69dcb77061f2e560d6268622ae72ef11d412b996520b7321b1f20'
83  correct_sha512+='427fb4eda6d2fb5909938da6c0af4099921190298d372466dea3'
84  correct_sha512+='b45805f0c271da852578075'
85  wget_sha512 "$subdir/grammar_and_spell_check.sh" "$script" \
86    "$correct_sha512"
87
88  URL_beginning2="$URL_beginning/licenses_templates"
89  subdir2="$subdir/licenses_templates"
90  script="$URL_beginning2/build_licenses_templates.sh"
91  correct_sha512='6cc01a243d5561a8be48af1867eda7ce05b28470abe72e0f20cf9'
92  correct_sha512+='06db230aed50a886b632cb722a1b7c20e97fd31e70686da2db88'
93  correct_sha512+='f467fdf5479199f15ed0df8'
94  wget_sha512 "$subdir2/build_licenses_templates.sh" "$script" \
95    "$correct_sha512"
96  chmod +x "$subdir2/build_licenses_templates.sh"
97
98  script="$URL_beginning2/license_file_header_GPLv3+.tpl"
99  correct_sha512='2bdef9a729a5a9ca5ed87ef8a518877c5ee6b31b4533608660316'
100 correct_sha512+='a4e595fb31465a4847f4d53a2f7264118bd4eab7c1d1892e00bc'
101 correct_sha512+='1861455ed02898f194db067'
102 wget_sha512 "$subdir2/license_file_header_GPLv3+.tpl" "$script" \
103    "$correct_sha512"
104
105 script="$URL_beginning2/license_file_header_LGPLv3+.tpl"
106 correct_sha512='265fd0d086b48ab798f35a072335a4976e4eda8c256febba6c77c'
107 correct_sha512+='98ca86cdd844c6ac150c3445c80debbb3fc2574b5fceeaf79ec'
108 correct_sha512+='734a759bdef5fe798067c62'
109 wget_sha512 "$subdir2/license_file_header_LGPLv3+.tpl" "$script" \
110    "$correct_sha512"

```

```

111
112 script="$URL_beginning/lines_counts.sh"
113 correct_sha512='4aa984d1a3709d3ed6ad5a4accc5e1d9cee2f174730ef232dbcd6'
114 correct_sha512+='1d3661191e1904a0072fdb818c96e4aff5e58d5d7b0b024a874f'
115 correct_sha512+='17acb35d98bbde10fb6dacd'
116 wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
117
118 script="$URL_beginning/lines_filters.sh"
119 correct_sha512='a144c6e57df8a6dc4e99aecefcef3e5d1f93ef22a76f0089bb6e1'
120 correct_sha512+='be6189193a1ea4ac316173a36b83a2c92f75856e6cec97a2bbcf'
121 correct_sha512+='ba23110239e5a1d10455bf6'
122 wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
123
124 script="$URL_beginning/lines_maps.sh"
125 correct_sha512='26db8b6d3d4de7dd4286e620efc1b3621f406ca13f3336da8f29b'
126 correct_sha512+='6f60d3e836f8b35cd7de9bd5f0366e46dd187bf977a7d7138df7'
127 correct_sha512+='bf1f59fb20a6aa3d2156352'
128 wget_sha512 "$subdir/lines_maps.sh" "$script" "$correct_sha512"
129
130 URL_beginning3="$URL_beginning/listings"
131 subdir3="$subdir/listings"
132 script="$URL_beginning3/update_or_check_files_names_listing.sh"
133 correct_sha512='771c73acad73dd998381e5051dfd816004ada2ca5a695bebe0735'
134 correct_sha512+='f8f80c215ef9e1ea35d8b45208792cfeac6a049f29e1bbfa668e'
135 correct_sha512+='31be7b93f60f79c98b37425'
136 wget_sha512 "$subdir3/update_or_check_files_names_listing.sh" \
137 "$script" "$correct_sha512"
138 chmod +x "$subdir3/update_or_check_files_names_listing.sh"
139
140 script="$URL_beginning3/files_names_listing.txt"
141 correct_sha512='19003318a81ac923b3053abb87dcf1d92b825cc0cf88da4285c4a'
142 correct_sha512+='5c7b73878c0fb0a8ca50a3ab0aa744bd872edfa3a91846189e23'
143 correct_sha512+='dd3e9a01430f22d8e369012'
144 wget_sha512 "$subdir3/files_names_listing.txt" "$script" \
145 "$correct_sha512"
146
147 script="$URL_beginning/overwrite_if_not_equal.sh"
148 correct_sha512='afabf6f384e61920dbc575afb1519173ac2654b6180b9a28c5ffc'
149 correct_sha512+='173a05c6e6d4011d7bc8912da15caee923c9033d8355967920e4'
150 correct_sha512+='d05e2cd575c3cf065fc8e40'
151 wget_sha512 "$subdir/overwrite_if_not_equal.sh" "$script" \
152 "$correct_sha512"
153
154 script="$URL_beginning/python_black_complement.sh"
155 correct_sha512='7152e9d01cc3c72371695635cd6866b2e13ce25f4842afb8e4e87'
156 correct_sha512+='b6447b26abafbdbc850f69946913b5b2c423b265c9066a2b4655'

```

```

157 correct_sha512+= '6dea19c04a5416588423a74'
158 wget_sha512 "$subdir/python_black_complement.sh" "$script" \
159     "$correct_sha512"
160
161 script="$URL_beginning/python_isort_complement.sh"
162 correct_sha512='770e5ed16e4b5f6d61577794033161d361bc2eacea6d08a5c7b9a'
163 correct_sha512+= '1577666cf655d1c947108adb9151d87f937471d30716a6d50d76'
164 correct_sha512+= 'f84bbcf1f1620fb9ede4575'
165 wget_sha512 "$subdir/python_isort_complement.sh" "$script" \
166     "$correct_sha512"
167
168 script="$URL_beginning/too_long_code_lines.sh"
169 correct_sha512='a8716971f22a14160701b6e801c4f66220e2e1dd174f24e43775e'
170 correct_sha512+= 'e743aeaa4ee66dadae185e134c3554f8c37d8ee457d051336ed3'
171 correct_sha512+= '430b734bcf80e8d5704064b'
172 wget_sha512 "$subdir/too_long_code_lines.sh" "$script" \
173     "$correct_sha512"
174
175 shopt -s globstar
176 source "$subdir/check_shell_scripts_beginnings.sh"
177 source "$subdir/check_URLs.sh"
178 source "$subdir/comparisons.sh"
179 source "$subdir/generate_from_template.sh"
180 source "$subdir/get_common_text_glob_patterns.sh"
181 source "$subdir/lines_counts.sh"
182 source "$subdir/lines_filters.sh"
183 source "$subdir/overwrite_if_not_equal.sh"
184 source "$subdir/python_black_complement.sh"
185 source "$subdir/python_isort_complement.sh"
186 source "$subdir/too_long_code_lines.sh"
187
188 cwd="."
189 if [[ -n "$1" ]];
190 then
191     cwd="$1"
192 fi
193
194 echo "Building license headers"
195 "$subdir2/build_licenses_templates.sh" "$cwd"
196
197 echo "Building README.md"
198 "$subdir/build_md_from_printable_md.sh" "$cwd"
199
200 pushd .
201 cd "$cwd"
202

```

```

203 echo "Running isort"
204 isort .
205 python_isort_complement
206
207 echo "Running black"
208 black .
209 python_black_complement
210
211 find . -name "pyproject.toml" | relevant_find\
212 | while read -r file_name;
213 do
214     if grep -q "Typing :: Typed" "$file_name"; then
215         echo "Running mypy"
216         mypy $(dirname "$file_name")
217     fi
218 done
219
220 echo "Analyzing too long lines"
221 too_long_code_lines | relevant_grep | not_license_grep
222
223 echo "Analyzing shell scripts beginnings"
224 check_shell_scripts_beginnings | relevant_grep
225
226 echo "Analyzing URLs"
227 check_URLs | relevant_grep
228
229 echo "Analyzing strange characters : hover over in doubt"
230 usual_characters="\x00-\x7Fàâéèëîïôç@'\"`|_|«»"
231 grep --exclude-dir '.git' -nPrv "^[${usual_characters}]*$" .\
232 | grep --color='auto' -nP "^[${usual_characters}]"
233
234 echo "Creating the PDF file of the listing of the source code"
235 ./build_and_checks_dependencies/create_PDF.sh
236
237 popd

```

## 2.7 build\_and\_checks\_dependencies/common\_build\_and\_checks.sh.tpl

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU Lesser General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,

```

```

9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 source ./wget_sha512.sh
26
27 personal_github="https://raw.githubusercontent.com/LLyaudet/"
28 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
29 URL_beginning="$personal_github$dependencies"
30
31 subdir="build_and_checks_dependencies"
32
33 script="$URL_beginning/build_md_from_printable_md.sh"
34 @sha512_build_md_from_printable_md.sh@
35 wget_sha512 "$subdir/build_md_from_printable_md.sh" "$script" \
36 "$correct_sha512"
37 chmod +x "$subdir/build_md_from_printable_md.sh"
38
39 script="$URL_beginning/check_shell_scripts_beginnings.sh"
40 @sha512_check_shell_scripts_beginnings.sh@
41 wget_sha512 "$subdir/check_shell_scripts_beginnings.sh" "$script" \
42 "$correct_sha512"
43
44 script="$URL_beginning/check_URLs.sh"
45 @sha512_check_URLs.sh@
46 wget_sha512 "$subdir/check_URLs.sh" "$script" "$correct_sha512"
47
48 script="$URL_beginning/comparisons.sh"
49 @sha512_comparisons.sh@
50 wget_sha512 "$subdir/comparisons.sh" "$script" "$correct_sha512"
51
52 script="$URL_beginning/create_PDF.sh"
53 @sha512_create_PDF.sh@
54 wget_sha512 "$subdir/create_PDF.sh" "$script" "$correct_sha512"

```



```

55  chmod +x "$subdir/create_PDF.sh"
56
57  script="$URL_beginning/generate_from_template.sh"
58  @sha512_generate_from_template.sh@
59  wget_sha512 "$subdir/generate_from_template.sh" "$script" \
60    "$correct_sha512"
61
62  script="$URL_beginning/get_common_text_glob_patterns.sh"
63  @sha512_get_common_text_glob_patterns.sh@
64  wget_sha512 "$subdir/get_common_text_glob_patterns.sh" "$script" \
65    "$correct_sha512"
66
67  script="$URL_beginning/grammar_and_spell_check.sh"
68  @sha512_grammar_and_spell_check.sh@
69  wget_sha512 "$subdir/grammar_and_spell_check.sh" "$script" \
70    "$correct_sha512"
71
72  URL_beginning2="$URL_beginning/licenses_templates"
73  subdir2="$subdir/licenses_templates"
74  script="$URL_beginning2/build_licenses_templates.sh"
75  @sha512_build_licenses_templates.sh@
76  wget_sha512 "$subdir2/build_licenses_templates.sh" "$script" \
77    "$correct_sha512"
78  chmod +x "$subdir2/build_licenses_templates.sh"
79
80  script="$URL_beginning2/license_file_header_GPLv3+.tpl"
81  @sha512_license_file_header_GPLv3+.tpl@
82  wget_sha512 "$subdir2/license_file_header_GPLv3+.tpl" "$script" \
83    "$correct_sha512"
84
85  script="$URL_beginning2/license_file_header_LGPLv3+.tpl"
86  @sha512_license_file_header_LGPLv3+.tpl@
87  wget_sha512 "$subdir2/license_file_header_LGPLv3+.tpl" "$script" \
88    "$correct_sha512"
89
90  script="$URL_beginning/lines_counts.sh"
91  @sha512_lines_counts.sh@
92  wget_sha512 "$subdir/lines_counts.sh" "$script" "$correct_sha512"
93
94  script="$URL_beginning/lines_filters.sh"
95  @sha512_lines_filters.sh@
96  wget_sha512 "$subdir/lines_filters.sh" "$script" "$correct_sha512"
97
98  script="$URL_beginning/lines_maps.sh"
99  @sha512_lines_maps.sh@
100 wget_sha512 "$subdir/lines_maps.sh" "$script" "$correct_sha512"

```

```

101
102 URL_beginning3="$URL_beginning/listings"
103 subdir3="$subdir/listings"
104 script="$URL_beginning3/update_or_check_files_names_listing.sh"
105 @sha512_update_or_check_files_names_listing.sh@
106 wget_sha512 "$subdir3/update_or_check_files_names_listing.sh" \
107     "$script" "$correct_sha512"
108 chmod +x "$subdir3/update_or_check_files_names_listing.sh"
109
110 script="$URL_beginning3/files_names_listing.txt"
111 @sha512_files_names_listing.txt@
112 wget_sha512 "$subdir3/files_names_listing.txt" "$script" \
113     "$correct_sha512"
114
115 script="$URL_beginning/overwrite_if_not_equal.sh"
116 @sha512_overwrite_if_not_equal.sh@
117 wget_sha512 "$subdir/overwrite_if_not_equal.sh" "$script" \
118     "$correct_sha512"
119
120 script="$URL_beginning/python_black_complement.sh"
121 @sha512_python_black_complement.sh@
122 wget_sha512 "$subdir/python_black_complement.sh" "$script" \
123     "$correct_sha512"
124
125 script="$URL_beginning/python_isort_complement.sh"
126 @sha512_python_isort_complement.sh@
127 wget_sha512 "$subdir/python_isort_complement.sh" "$script" \
128     "$correct_sha512"
129
130 script="$URL_beginning/too_long_code_lines.sh"
131 @sha512_too_long_code_lines.sh@
132 wget_sha512 "$subdir/too_long_code_lines.sh" "$script" \
133     "$correct_sha512"
134
135 shopt -s globstar
136 source "$subdir/check_shell_scripts_beginnings.sh"
137 source "$subdir/check_URLs.sh"
138 source "$subdir/comparisons.sh"
139 source "$subdir/generate_from_template.sh"
140 source "$subdir/get_common_text_glob_patterns.sh"
141 source "$subdir/lines_counts.sh"
142 source "$subdir/lines_filters.sh"
143 source "$subdir/overwrite_if_not_equal.sh"
144 source "$subdir/python_black_complement.sh"
145 source "$subdir/python_isort_complement.sh"
146 source "$subdir/too_long_code_lines.sh"

```

```

147
148 cwd="."
149 if [[ -n "$1" ]];
150 then
151     cwd="$1"
152 fi
153
154 echo "Building license headers"
155 ./${subdir2}/build_licenses_templates.sh "$cwd"
156
157 echo "Building README.md"
158 ./${subdir}/build_md_from_printable_md.sh "$cwd"
159
160 pushd .
161 cd "$cwd"
162
163 echo "Running isort"
164 isort .
165 python_isort_complement
166
167 echo "Running black"
168 black .
169 python_black_complement
170
171 find . -name "pyproject.toml" | relevant_find\
172 | while read -r file_name;
173 do
174     if grep -q "Typing :: Typed" "$file_name"; then
175         echo "Running mypy"
176         mypy $(dirname "$file_name")
177     fi
178 done
179
180 echo "Analyzing too long lines"
181 too_long_code_lines | relevant_grep | not_license_grep
182
183 echo "Analyzing shell scripts beginnings"
184 check_shell_scripts_beginnings | relevant_grep
185
186 echo "Analyzing URLs"
187 check_URLs | relevant_grep
188
189 echo "Analyzing strange characters : hover over in doubt"
190 usual_characters="\x00-\x7Fàâéèëëïïôç@\"\"_|«»"
191 grep --exclude-dir '.git' -nPrv "^[$usual_characters]*$" .\
192 | grep --color='auto' -nP "^[^$usual_characters]"

```

```

193
194 echo "Creating the PDF file of the listing of the source code"
195 ./build_and_checks_dependencies/create_PDF.sh
196
197 popd

```

## 2.8 build\_and\_checks\_dependencies/comparisons.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
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9  # or (at your option) any later version.
10 #
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15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24
25 equal() {
26     # Returns 1 if all the arguments strings are equal.
27     # Renvoie 1 dans $? si toutes les chaînes en arguments sont égales.
28     # J'ai rerepensé au 3-way-merge
29     # et à mon article sur le principe de première différence
30     # appliqué à la largeur modulaire, de clique ou de rang avec
31     # l'idée d'un principe de première différence ternaire.
32     equal_var_all_args="'$*'"
33     equal_var_current="$equal_var_all_args"
34     for equal_var_arg in $@; do
35         if [ "$equal_var_current" == "$equal_var_all_args" ]; then
36             equal_var_current="$equal_var_arg"
37             continue
38         fi

```

```

39     if [[ "$equal_var_current" != "$equal_var_arg" ]]; then
40         return 0
41     fi
42 done
43 return 1
44 }
45
46 max(){
47     # Returns the maximum string among the arguments.
48     # Renvoie la chaîne la plus grande parmi celles proposées.
49     # $1=$sort command with the flags you want to be applied.
50     # $ max sort a b c
51     # c
52     if [[ "$#" == 0 ]]; then
53         return 1
54     fi
55     printf "%s\n" "${@:2}" | eval "$1 -r" | head -1
56 }
57
58 min(){
59     # Returns the minimum string among the arguments.
60     # Renvoie la chaîne la plus petite parmi celles proposées.
61     # $1=$sort command with the flags you want to be applied.
62     # $ min sort a b c
63     # a
64     if [[ "$#" == 0 ]]; then
65         return 1
66     fi
67     printf "%s\n" "${@:2}" | eval "$1" | head -1
68 }
69
70 is_substring(){
71     # $1=$string
72     # $2=$substring
73     is_substring_var_1=$(
74         echo "$1" | sed -e 's/\\/\\&/g' -e "s/'/\\\\&/g"
75     )
76     is_substring_var_2=$(
77         echo "$2" | sed -e 's/\\/\\&/g' -e "s/'/\\\\&/g"
78     )
79     is_substring_var_3="\$a = '$is_substring_var_1';"
80     is_substring_var_3+=" \$b = preg_quote('$is_substring_var_2');"
81     is_substring_var_3+=" \$c = '/'.addslashes(\$b, '/').'/';"
82     is_substring_var_3+=" die(preg_match(\$c, \$a));"
83     php -r "$is_substring_var_3"
84 }

```

```

85
86 is_subfile() {
87     # $1=$file_name
88     # $2=$sub_file_name
89     is_subfile_var_1="\$a = file_get_contents('$1');"
90     is_subfile_var_1+=" \$b = preg_quote(file_get_contents('$2'));"
91     is_subfile_var_1+=" \$c = '//'.addslashes(\$b, '//').'//';"
92     is_subfile_var_1+=" die(preg_match(\$c, \$a));"
93     php -r "$is_subfile_var_1"
94 }
95
96 alias min_from_int_sort="min 'sort --numeric-sort'"
97 alias max_from_int_sort="max 'sort --numeric-sort'"

```

## 2.9 build\_and\_checks\_dependencies/create\_PDF.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
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6 # of the GNU Lesser General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/generate_from_template.sh"
27 source "$subdir/lines_counts.sh"
28 source "$subdir/lines_filters.sh"
29 source "$subdir/lines_maps.sh"
30 source "$subdir/overwrite_if_not_equal.sh"

```

```

31 source "$subdir/string_functions.sh"
32 subdir2="$subdir/listings"
33
34 grep_variable repository_data.txt repository_name
35
36 cp "$subdir/latex/$repository_name.tex.tpl" \
37     "$subdir/latex/$repository_name.tex"
38
39 sed -i "s|@repository_name@|$repository_name|g" \
40     "$subdir/latex/$repository_name.tex"
41
42 grep_variable repository_data.txt abstract
43 echo "$abstract" | sed -e 's/\n/\n/g' > "abstract_temp"
44 insert_file_at_token "$subdir/latex/$repository_name.tex" @abstract@ \
45     "abstract_temp"
46 rm "abstract_temp"
47
48 grep_variable repository_data.txt acknowledgments
49 echo "$acknowledgments" | sed -e 's/\n/\n/g' > "acknowledgments_temp"
50 insert_file_at_token "$subdir/latex/$repository_name.tex" @acknowledgments@ \
51     "acknowledgments_temp"
52 rm "acknowledgments_temp"
53
54 grep_variable repository_data.txt author_full_name
55 sed -i "s|@author_full_name@|$author_full_name|g" \
56     "$subdir/latex/$repository_name.tex"
57
58 grep_variable repository_data.txt author_website
59 sed -i "s|@author_website@|$author_website|g" \
60     "$subdir/latex/$repository_name.tex"
61
62 grep_variable repository_data.txt author_email
63 sed -i "s|@author_email@|$author_email|g" \
64     "$subdir/latex/$repository_name.tex"
65
66 current_date=$(date -I"date")
67 sed -i "s|@current_date@|$current_date|g" \
68     "$subdir/latex/$repository_name.tex"
69
70 current_git_SHA1=$(git rev-parse HEAD)
71 sed -i "s|@current_git_SHA1@|$current_git_SHA1|g" \
72     "$subdir/latex/$repository_name.tex"
73
74 number_of_commits=$(git shortlog | space_starting_lines | wc -l)
75 sed -i "s|@number_of_commits@|$number_of_commits|g" \
76     "$subdir/latex/$repository_name.tex"

```

```

77
78 number_of_lines="$(code_lines_count_all) total lines,"
79 number_of_lines+=" $(code_lines_count_not_empty) not empty lines,"
80 number_of_lines+=" $(code_lines_count_empty) empty lines."
81 sed -i "s|@number_of_lines@|$number_of_lines|g"\
82     "./latex/$repository_name.tex"
83
84 tree -a --gitignore\
85     -I "$repository_name.aux"\
86     -I "$repository_name.log"\
87     -I "$repository_name.out"\
88     -I current_tree.txt\
89     -I current_tree_light.txt\
90     -I "node_modules/"\
91     -I "__pycache__/"\
92     -I ".mypy_cache/"\
93     -I ".git/"\
94     | replace_non_ascii_spaces\
95     > current_tree_light.txt
96
97 tree -a -DFh --gitignore\
98     -I "$repository_name.aux"\
99     -I "$repository_name.log"\
100    -I "$repository_name.out"\
101    -I current_tree.txt\
102    -I current_tree_light.txt\
103    -I "node_modules/"\
104    -I "__pycache__/"\
105    -I ".mypy_cache/"\
106    -I ".git/"\
107    | replace_non_ascii_spaces\
108    > current_tree.txt
109
110 temp_files_listing="./$subdir2/files_listing.tex.tpl.temp"
111 > "$temp_files_listing"
112 get_split_score_after_before 70 /
113 # split_score_command="$LFBFL_generic_result"
114 score_command="$LFBFL_generic_result"
115 get_split_score_after_before 70 ':'
116 # split_score_command2="$LFBFL_generic_result"
117 score_command2="$LFBFL_generic_result"
118 suffix='% '
119 sed_expression='s/\\n/Mg'
120 cat "$subdir2/files_names_listing.txt" \
121     | sed -Ez "$sed_expression" | sed -Ez "$sed_expression" \
122     | sed -Ez "$sed_expression" | sed -Ez "$sed_expression" \

```



```

123 | grep -v '^// '\
124 | while read -r file_name;
125 do
126   base_file_name=$(basename "$file_name")
127   # cleaned_path1=$(sed -e 's/_/\_\_/g' <(echo "$file_name"))
128   cleaned_path2=$(sed -e 's/\///:/g' -e 's/\././g' <(echo "$file_name"))
129   echo "\subsection{" >> "$temp_files_listing"
130
131   new_lines=" $file_name"
132   if [[ ${#new_lines} -gt 60 ]]; then
133     split_last_line "$new_lines" "" 60 "$suffix" "$score_command"
134     new_lines=$split_last_line_result
135     split_last_line "$new_lines" "" 60 "$suffix" "$score_command"
136     new_lines=$split_last_line_result
137     split_last_line "$new_lines" "" 60 "$suffix" "$score_command"
138     new_lines=$split_last_line_result
139   fi
140   echo " $file_name" | sed -e "s| $file_name|$new_lines|g"\
141     > "$temp_files_listing.2"
142   sed -i -e 's/_/\_\_/g' "$temp_files_listing.2"
143   cat "$temp_files_listing.2" >> "$temp_files_listing"
144   rm "$temp_files_listing.2"
145
146   echo "}" >> "$temp_files_listing"
147   echo "\label{" >> "$temp_files_listing"
148
149   new_lines=" $cleaned_path2"
150   if [[ ${#new_lines} -gt 68 ]]; then
151     split_last_line "$new_lines" "" 70 "$suffix" "$score_command2"
152     new_lines=$split_last_line_result
153     split_last_line "$new_lines" "" 70 "$suffix" "$score_command2"
154     new_lines=$split_last_line_result
155     split_last_line "$new_lines" "" 70 "$suffix" "$score_command2"
156     new_lines=$split_last_line_result
157   fi
158   echo " $cleaned_path2" | sed -e "s| $cleaned_path2|$new_lines|g"\
159     >> "$temp_files_listing"
160
161   echo "}" >> "$temp_files_listing"
162   echo "" >> "$temp_files_listing"
163   echo "\VerbatimInput[numbers=left,xleftmargin=-5mm]{ "\
164     >> "$temp_files_listing"
165
166   new_lines="$file_name"
167   if [[ ${#new_lines} -gt 68 ]]; then
168     split_last_line "$new_lines" "" 70 "$suffix" "$score_command"

```

```

169     new_lines=$split_last_line_result
170     split_last_line "$new_lines" "" 70 "$suffix" "$score_command"
171     new_lines=$split_last_line_result
172     split_last_line "$new_lines" "" 70 "$suffix" "$score_command"
173     new_lines=$split_last_line_result
174 fi
175 echo " $file_name" | sed -e "s| $file_name|$new_lines|g"\
176 >> "$temp_files_listing"
177
178 echo "}" >> "$temp_files_listing"
179 echo "" >> "$temp_files_listing"
180 echo "" >> "$temp_files_listing"
181 done
182 overwrite_if_not_equal ".$subdir2/files_listing.tex.tpl"\
183 "$temp_files_listing"
184 insert_file_at_token ".$latex/$repository_name.tex"\
185 @files_listing_VerbatimInput@ ".$subdir2/files_listing.tex.tpl"
186
187 # We verify if some lines are beyond 70 characters
188 # in current_tree_light.txt et current_tree.txt.
189 trees=("current_tree_light.txt" "current_tree.txt")
190 for some_tree in "${trees[@]}; do
191     grep '\.{71}\}' "$some_tree" | while read -r some_line; do
192         # echo "some_line: $some_line"
193         prefix=$(
194             echo "$some_line"\
195             | sed -E -e 's/(.*)-[^-]+$/\1/g' -e 's/[^ ]+$/\1/g'\
196         )
197         prefix+="| "
198         # echo "prefix: $prefix"
199         file_name=$(
200             echo "$some_line"\
201             | sed -E 's|.* ([[a-zA-Z0-9\._/-]+).)$|\1|g'\
202         )
203         # echo "file_name: $file_name"
204         line_start=$(
205             echo "$some_line"\
206             | sed -E "s/(.*)[ ]*$file_name/\1/g"\
207             | sed -e 's/ *$//g'\
208         )
209         # echo "line_start: $line_start"
210         some_line=$(
211             echo "$some_line"\
212             | sed -E -e 's/\[/\\\\[/g' -e 's/\\]/\\\\]/g'\
213         )
214         new_lines="$prefix$file_name"

```

```

215     if [[ ${#new_lines} -gt 68 ]]; then
216         split_last_line "$new_lines" "$prefix" 70 ""
217         new_lines=$split_last_line_result
218         split_last_line "$new_lines" "$prefix" 70 ""
219         new_lines=$split_last_line_result
220         split_last_line "$new_lines" "$prefix" 70 ""
221         new_lines=$split_last_line_result
222         split_last_line "$new_lines" "$prefix" 70 ""
223         new_lines=$split_last_line_result
224     fi
225     sed -i -e "s/$some_line/$line_start\n$new_lines/g" "$some_tree"
226 done
227 done
228
229 sed -i -e '/@current_tree_light@/{r current_tree_light.txt' -e 'd}'\
230     "./latex/$repository_name.tex"
231 sed -i -e '/@current_tree@/{r current_tree.txt' -e 'd}'\
232     "./latex/$repository_name.tex"
233
234 pdflatex "./latex/$repository_name.tex" > /dev/null
235 pdflatex "./latex/$repository_name.tex" > /dev/null
236 pdflatex "./latex/$repository_name.tex" > /dev/null
237
238 files_to_delete=(\
239     "$repository_name.aux"\
240     "$repository_name.log"\
241     "$repository_name.out"\
242     "current_tree.txt"
243     "current_tree_light.txt"
244 )
245 # Comment the following line if you need to debug.
246 for file_name in "${files_to_delete[@]}; do
247     rm -f "$file_name"
248 done

```

## 2.10 build\_and\_checks\_dependencies/generate\_from\_template.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
5  # you can redistribute it and/or modify it under the terms
6  # of the GNU Lesser General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.

```

```

10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/lines_filters.sh"
27
28 generate_from_template_with_block_comments() {
29     # $1=base_file_name
30     # $2=target_file_name
31     # $3=enter_block_comment
32     # $4=exit_block_comment
33     LFBFL_temp=".generate_from_template_with_block_comments.temp"
34     echo "$3" > "$2$LFBFL_temp"
35     cat "$1" >> "$2$LFBFL_temp"
36     echo "$4" >> "$2$LFBFL_temp"
37     overwrite_if_not_equal "$2" "$2$LFBFL_temp"
38 }
39
40 generate_from_template_with_line_comments() {
41     # $1=base_file_name
42     # $2=target_file_name
43     # $3=line_comment_prefix
44     # $4=optional_post_processing
45     LFBFL_temp=".generate_from_template_with_line_comments.temp"
46     sed -e "s/^/$3/g" "$1" > "$2$LFBFL_temp"
47     if [[ -n "$4" ]]; then
48         eval "$4"
49     fi
50     overwrite_if_not_equal "$2" "$2$LFBFL_temp"
51 }
52
53 split_file_in_two() {
54     # $1=$file_name
55     # $2=$token assume that token is the only thing on his line.

```

```

56 # $3=$file_name_part1
57 # $4=$file_name_part2
58 split_file_in_two_line_number=$(
59     grep -n "$2" "$1" | cut -f 1 -d ':'
60 )
61 split_file_in_two_line_count=$(ll_wc -l -n "$1")
62 split_file_in_two_lines_after=$((
63     $split_file_in_two_line_count - $split_file_in_two_line_number
64 ))
65 head --lines="$(($split_file_in_two_line_number - 1))" "$1" > "$3"
66 tail --lines="$split_file_in_two_lines_after" "$1" > "$4"
67 }
68
69 insert_file_at_token() {
70     # $1=$file_name
71     # $2=$token assume that token is the only thing on his line.
72     # $3=$file_name_to_insert
73     insert_at_token_var_start_file_name="$1.insert_file_at_token1.temp"
74     insert_at_token_var_end_file_name="$1.insert_file_at_token2.temp"
75     insert_at_token_var_result_file_name="$1.insert_file_at_token3.temp"
76     split_file_in_two "$1" "$2" "$insert_at_token_var_start_file_name" \
77         "$insert_at_token_var_end_file_name"
78     cat "$insert_at_token_var_start_file_name" "$3" \
79         "$insert_at_token_var_end_file_name" \
80         > "$insert_at_token_var_result_file_name"
81     overwrite_if_not_equal "$1" \
82         "$insert_at_token_var_result_file_name"
83     rm "$insert_at_token_var_start_file_name" \
84         "$insert_at_token_var_end_file_name"
85 }

```

## 2.11 build\_and\_checks\_dependencies/get\_common\_text\_glob\_patterns.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
3 #
4 # DevOrSysAdminScripts is free software:
5 # you can redistribute it and/or modify it under the terms
6 # of the GNU Lesser General Public License
7 # as published by the Free Software Foundation,
8 # either version 3 of the License,
9 # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;

```

```

14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 get_common_text_paths_glob_patterns() {
26     export common_patterns=(\
27         '**/*.c' \
28         '**/*.css' \
29         '**/*.h' \
30         '**/*.htm' \
31         '**/*.html' \
32         '**/*.js' \
33         '**/*.json' \
34         '**/*.md' \
35         '**/*.php' \
36         '**/*.py' \
37         '**/*.sh' \
38         '**/*.sql' \
39         '**/*.tex' \
40         '**/*.toml' \
41         '**/*.tpl' \
42         '**/*.ts' \
43         '**/*.txt' \
44         '**/*.yaml' \
45         '**/COPYING' \
46         '**/COPYING.LESSER' \
47         '**/pre-commit' \
48         '**/.gitignore' \
49         '**/py.typed' \
50     )
51 }
52
53
54 get_common_text_files_glob_patterns() {
55     export common_file_patterns=(\
56         '*.c' \
57         '*.css' \
58         '*.h' \
59         '*.htm' \

```

```

60     '*.html'\
61     '*.js'\
62     '*.json'\
63     '*.md'\
64     '*.php'\
65     '*.py'\
66     '*.sh'\
67     '*.sql'\
68     '*.tex'\
69     '*.toml'\
70     '*.tpl'\
71     '*.ts'\
72     '*.txt'\
73     '*.yaml'\
74     'COPYING'\
75     'COPYING.LESSER'\
76     'pre-commit'\
77     '.gitignore'\
78     'py.typed'\
79 )
80 }

```

## 2.12 build\_and\_checks\_dependencies/grammar\_and\_spell\_check.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
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9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #

```

```

23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27 source "$subdir/lines_filters.sh"
28
29 grammar_and_spell_check() {
30     get_common_text_files_glob_patterns
31     grep_variable "$1" grammar_or_spell_checker_command
32     LFBFL_command=$( \
33         echo "$grammar_or_spell_checker_command" \
34         | sed -Ez -e "s/\n//Mg" \
35     )
36     for LFBFL_pattern in "${common_file_patterns[@]}; do
37         [ "$2" != "-v" ] || echo "Iterating on pattern: $LFBFL_pattern"
38         find . -type f -name "$LFBFL_pattern" -printf '%P\n' \
39             | while read -r file_name;
40         do
41             LFBFL_eval_string="$LFBFL_command $file_name"
42             eval "$LFBFL_eval_string"
43         done
44     done
45 }

```

### 2.13 build\_and\_checks\_dependencies/licenses\_templates/build\_licenses\_templates.sh

```

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

```



```

21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/comparisons.sh"
27 source "$subdir/generate_from_template.sh"
28 source "$subdir/lines_filters.sh"
29 source "$subdir/overwrite_if_not_equal.sh"
30
31 license_subdir="$subdir/licenses_templates/"
32 license_prefix="$license_subdir"license_file_header_"
33 licenses=(\
34     "GPLv3+" \
35     "LGPLv3+"
36 )
37
38 # -----
39 # Various language definitions for text file formats
40 block_comment_languages=(\
41     "c" \
42     "py" \
43 )
44 block_comment_enters=(\
45     '/' '*' \
46     '""' \
47 )
48 block_comment_exits=(\
49     '*' '/' \
50     '""' \
51 )
52 equal "${#block_comment_languages[@]}" \
53     "${#block_comment_enters[@]}" \
54     "${#block_comment_exits[@]}"
55 if [[ $? == 0 ]]; then
56     echo '/!\' "Problème de définition des tableaux de langages 1"/!\'
57 fi
58
59 line_comment_languages=(\
60     "sh" \
61     "tex" \
62 )
63 line_comment_prefixes=(\
64     '#' \
65     '%' \
66 )

```

```

67 equal "${#line_comment_languages[@]}"\
68     "${#line_comment_prefixes[@]}"
69 if [[ $? == 0 ]]; then
70     echo '/!\' "Problème de définition des tableaux de langages 2"'/!\'
71 fi
72 # -----
73
74 # -----
75 # We generate the license header templates adapted to various text
76 # files formats.
77 # Kamoulox do endfor, Jacques Beauregard XD
78 # (C'est toujours mieux que l'inverse :) !)
79 # for do endfor -> for do done (Fort Doux Donne).
80 for license in "${licenses[@]"; do
81     license_prefix2="$license_prefix$license"
82     for ((i=0; i<${#block_comment_languages[@]}; i++)); do
83         extension=${block_comment_languages[i]}
84         license_file_name="$license_prefix2.$extension"
85         enter_string=${block_comment_enters[i]}
86         exit_string=${block_comment_exits[i]}
87         generate_from_template_with_block_comments\
88             "$license_prefix2.tpl"\
89             "$license_file_name.tpl"\
90             "$enter_string" "$exit_string"
91     done
92     LFBFL_temp2=".generate_from_template_with_line_comments.temp"
93     for ((i=0; i<${#line_comment_languages[@]}; i++)); do
94         extension=${line_comment_languages[i]}
95         license_file_name="$license_prefix2.$extension"
96         prefix_string=${line_comment_prefixes[i]}
97
98         generate_from_template_with_line_comments\
99             "$license_prefix2.tpl"\
100             "$license_file_name.tpl"\
101             "$prefix_string"\
102             "sed -i -E -e 's/\s*$/g' '$license_file_name.tpl$LFBFL_temp2' "
103     done
104 done
105 # -----
106
107 file_name=repository_data.txt
108 grep_variable "$file_name" repository_name
109 grep_variable "$file_name" license
110 grep_variable "$file_name" author_full_name
111 license_prefix2="$license_prefix$license"
112 # First year according to current state of git repository.

```

```

113 first_year="$(git log | grep 'Date:' | cut -f 8 -d ' ' | tail -1)"
114 # Last year according to current state of git repository.
115 last_year="$(git log | grep 'Date:' | cut -f 8 -d ' ' | head -1)"
116 copyright_string="$first_year-$last_year $author_full_name"
117 for ((i=0; i<${#block_comment_languages[@]}; i++)); do
118     extension=${block_comment_languages[i]}
119     license_file_name="$license_prefix2.$extension"
120     sed -e "s/@repository_name@/$repository_name/g"\
121         -e "s/@copyright_string@/$copyright_string/g"\
122         "$license_file_name.tpl" > "$license_file_name.temp"
123     overwrite_if_not_equal "$license_file_name"\
124         "$license_file_name.temp"
125     head --lines=-1 "$license_file_name" | tail --lines=-1\
126         > "$license_file_name.temp"
127     find . -type f -name "*. $extension" -printf '%P\n' | relevant_find\
128         | while read -r file_name;
129     do
130         if is_subfile "$file_name" "$license_file_name.temp"
131         then
132             echo "File $file_name has no/wrong license header?"
133         fi
134     done
135     rm "$license_file_name.temp"
136 done
137 for ((i=0; i<${#line_comment_languages[@]}; i++)); do
138     extension=${line_comment_languages[i]}
139     license_file_name="$license_prefix2.$extension"
140     sed -e "s/@repository_name@/$repository_name/g"\
141         -e "s/@copyright_string@/$copyright_string/g"\
142         "$license_file_name.tpl" > "$license_file_name.temp"
143     overwrite_if_not_equal "$license_file_name"\
144         "$license_file_name.temp"
145     find . -type f -name "*. $extension" -printf '%P\n' | relevant_find\
146         | while read -r file_name;
147     do
148         if is_subfile "$file_name" "$license_file_name"
149         then
150             echo "File $file_name has no/wrong license header?"
151         fi
152     done
153 done

```

## 2.14 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 */

```

## 2.15 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  """

```

## 2.16 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@

```

## 2.17 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_GPLv3+.tex.tp

```

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@

```

## 2.18 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
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```

## 2.19 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.c

```

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22
23  ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24  */

```

## 2.20 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.c.tpl

```

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```

## 2.21 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.py

```

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3

```

```

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

```

## 2.22 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.py.t

```

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22

```



```

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24  """

```

## 2.23 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.sh

```

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```

## 2.24 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.sh.t

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16 #

```

```

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```

## 2.25 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.tex

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```

## 2.26 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.tex.1

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```

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```

## 2.27 build\_and\_checks\_dependencies/licenses\_templates/license\_file\_header\_LGPLv3+.tpl

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```

## 2.28 build\_and\_checks\_dependencies/lines\_counts.sh

```

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24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/get_common_text_glob_patterns.sh"
27 source "$subdir/lines_filters.sh"
28
29 all_code_lines(){
30     get_common_text_files_glob_patterns
31     for LFBFL_pattern in "${common_file_patterns[@]"; do
32         [ "$1" != "-v" ] || echo "Iterating on pattern: $LFBFL_pattern"
33         find . -type f -name "$LFBFL_pattern" -printf '%P\n'\
34             | xargs grep -H -v 'a(?!a)a'
35     done
36 }
37
38 all_self_code_lines(){
39     all_code_lines | relevant_grep\
40         | not_license_grep | not_main_tex_grep
41 }
42
43 all_self_empty_code_lines(){
44     all_self_code_lines | empty_lines_after_file_name
45 }
46
47 all_self_not_empty_code_lines(){
48     all_self_code_lines | not_empty_lines_after_file_name
49 }
50
51 code_lines_count_all(){
52     all_self_code_lines | wc -l
53 }
54

```

```

55 code_lines_count_empty(){
56     all_self_empty_code_lines | wc -l
57 }
58
59 code_lines_count_not_empty(){
60     all_self_not_empty_code_lines | wc -l
61 }

```

## 2.29 build\_and\_checks\_dependencies/lines\_filters.sh

```

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24
25 # The goal of ths file is to have some common line filters
26 # for bash processing and pipes.
27 # As is the case for other .sh files in this repository,
28 # it can be copied somewhere in your home directory
29 # and sourced in your .bashrc.
30
31 ll_wc(){
32     # current options to wc:
33     # -c --bytes
34     # -m --chars
35     # -l --lines
36     # --files0-from # Incompatible with cat,

```

```

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

```

```

83 }
84
85 # I submitted a patch for wc :).
86 # echo "https://domain/list-path/2024-05/msg00013.html" | \
87 #   sed -e 's|domain|lists.gnu.org|' \
88 #       -e 's|list-path|archive/html/bug-coreutils|'
89 # I found another way to have a long URL fit on 70 characters.
90 # If it is merged, the following would be better:
91 # If --no-filenames option available,
92 # we redefine ll_wc command as an alias.
93 wc_help_text=$(wc --help)
94 if [[ "$wc_help_text" == *" --no-filenames "*" ]]; then
95     alias ll_wc='wc'
96 fi
97
98 # $ ll_wc wget_sha512.sh
99 # 41 189 1224 wget_sha512.sh
100 # $ ll_wc -n wget_sha512.sh
101 # 41 189 1224
102 # $ ll_wc -l wget_sha512.sh
103 # 41 wget_sha512.sh
104 # $ ll_wc -l -n wget_sha512.sh
105 # 41
106
107 in_place_grep() {
108     LFBFL_temp=".in_place_grep.temp"
109     grep @$ > "${!#}" "$LFBFL_temp"
110     LFBFL_lines_before=$(ll_wc -l -n "${!#}")
111     LFBFL_lines_after=$(ll_wc -l -n "${!#}" "$LFBFL_temp")
112     # echo "$LFBFL_lines_before"
113     # echo "$LFBFL_lines_after"
114     if [[ "$LFBFL_lines_before" == "$LFBFL_lines_after" ]]; then
115         rm "${!#}" "$LFBFL_temp"
116         return
117     fi
118     mv "${!#}" "$LFBFL_temp" "${!#}"
119 }
120
121 grep_variable() {
122     # $1=$file
123     # $2=$variable_name
124     LFBFL_regexp="(?!^$2=).*$"
125     # echo $LFBFL_regexp
126     LFBFL_variable_value=$(grep -oP "$LFBFL_regexp" "$1")
127     # echo $LFBFL_variable_value
128     declare -g "$2"="$LFBFL_variable_value"

```

```

129 }
130
131 grep_variable repository_data.txt repository_name
132
133 empty_lines() {
134     grep '^$'
135 }
136
137 not_empty_lines() {
138     grep -v '^$'
139 }
140
141 space_starting_lines() {
142     grep '^[ ]'
143 }
144
145 not_space_starting_lines() {
146     grep '^[^ ]'
147 }
148
149 empty_lines_after_file_name() {
150     grep '^[^:]\+$'
151 }
152
153 not_empty_lines_after_file_name() {
154     grep -v '^[^:]\+$'
155 }
156
157 space_starting_lines_after_file_name() {
158     grep '^[^:]\+:'
159 }
160
161 not_space_starting_lines_after_file_name() {
162     grep '^[^:]\+:[^ ]'
163 }
164
165 not_JS_dependencies_find() {
166     grep -vE "(^|/)node_modules/" | grep -vE "(^|/)package-lock\.json$"
167 }
168
169 not_JS_dependencies_grep() {
170     grep -v "^[^:]*node_modules/" | grep -v "^[^:]*package-lock\.json:"
171 }
172
173 not_dependencies_find() {
174     not_JS_dependencies_find

```



```

175 }
176
177 not_dependencies_grep() {
178     not_JS_dependencies_grep
179 }
180
181 not_python_cache_find() {
182     grep -vE "(^|/).__pycache__/" | grep -vE "(^|/)\.mypy_cache/"
183 }
184
185 not_python_cache_grep() {
186     grep -v "^[^:]*__pycache__/" | grep -v "^[^:]*\.mypy_cache/"
187 }
188
189 not_cache_find() {
190     not_python_cache_find
191 }
192
193 not_cache_grep() {
194     not_python_cache_grep
195 }
196
197 not_git_find() {
198     grep -vE "(^|/)\.git/"
199 }
200
201 not_git_grep() {
202     grep -v "^[^:]*\.git/"
203 }
204
205 not_archive_find() {
206     grep -vE "(\.gz|\.rar|\.tar|\.tgz|\.whl)$"
207 }
208
209 not_archive_grep() {
210     grep -vE "^[^:]*(\.gz|\.rar|\.tar|\.tgz|\.whl):"
211 }
212
213 not_license_find() {
214     grep -vE "(^|/).COPYING$" | grep -vE "(^|/).COPYING\..LESSER$"
215 }
216
217 not_license_grep() {
218     grep -v "^[^:]*.COPYING:" | grep -v "^[^:]*.COPYING\..LESSER:"
219 }
220

```

```

221 not_main_tex_find() {
222     grep -vE "(^|/)$repository_name\\.tex$"
223 }
224
225 not_main_tex_grep() {
226     grep -v "^[^:]*$repository_name\\.tex:"
227 }
228
229 relevant_find() {
230     not_dependencies_find | not_cache_find | not_git_find\
231 | not_archive_find
232 }
233
234 relevant_grep() {
235     not_dependencies_grep | not_cache_grep | not_git_grep\
236 | not_archive_grep
237 }

```

## 2.30 build\_and\_checks\_dependencies/lines\_maps.sh

```

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24
25 # https://en.wikibooks.org/wiki/Unicode/Character\_reference/2000–2FFF
26 # Some invisible unicode characters that are a problem:

```

```

27 # 2000-200F 2028-202F 205F 2060-206F
28 # [
29 #   '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007',
30 #   '2008', '2009', '200A', '200B', '200C', '200D', '200E', '200F',
31 #   '2028', '2029', '202A', '202B', '202C', '202D', '202E', '202F',
32 #   '205F',
33 #   '2060', '2061', '2062', '2063', '2064', '2065', '2066', '2067',
34 #   '2068', '2069', '206A', '206B', '206C', '206D', '206E', '206F',
35 # ]
36 replace_non_ascii_spaces() {
37     sed -e 's/\xc2\xa0/ /g' \
38     | sed -e 's/\xe2\x00\x80/ /g' \
39     | sed -e 's/\xe2\x01\x81/ /g' \
40     | sed -e 's/\xe2\x02\x82/ /g' \
41     | sed -e 's/\xe2\x03\x83/ /g' \
42     | sed -e 's/\xe2\x04\x84/ /g' \
43     | sed -e 's/\xe2\x05\x85/ /g' \
44     | sed -e 's/\xe2\x06\x86/ /g' \
45     | sed -e 's/\xe2\x07\x87/ /g' \
46     | sed -e 's/\xe2\x08\x88/ /g' \
47     | sed -e 's/\xe2\x09\x89/ /g' \
48     | sed -e 's/\xe2\x0a\x8a/ /g' \
49     | sed -e 's/\xe2\x0b\x8b/ /g' \
50     | sed -e 's/\xe2\x0c\x8c/ /g' \
51     | sed -e 's/\xe2\x0d\x8d/ /g' \
52     | sed -e 's/\xe2\x0e\x8e/ /g' \
53     | sed -e 's/\xe2\x0f\x8f/ /g' \
54     | sed -e 's/\xe2\x28\xa8/ /g' \
55     | sed -e 's/\xe2\x29\xa9/ /g' \
56     | sed -e 's/\xe2\x2a\xaa/ /g' \
57     | sed -e 's/\xe2\x2b\xab/ /g' \
58     | sed -e 's/\xe2\x2c\xac/ /g' \
59     | sed -e 's/\xe2\x2d\xad/ /g' \
60     | sed -e 's/\xe2\x2e\xae/ /g' \
61     | sed -e 's/\xe2\x2f\xaf/ /g' \
62     | sed -e 's/\xe2\x20\x9f/ /g' \
63     | sed -e 's/\xe2\x21\xa0/ /g' \
64     | sed -e 's/\xe2\x22\xa1/ /g' \
65     | sed -e 's/\xe2\x23\xa2/ /g' \
66     | sed -e 's/\xe2\x24\xa3/ /g' \
67     | sed -e 's/\xe2\x25\xa4/ /g' \
68     | sed -e 's/\xe2\x26\xa5/ /g' \
69     | sed -e 's/\xe2\x27\xa6/ /g' \
70     | sed -e 's/\xe2\x28\xa7/ /g' \
71     | sed -e 's/\xe2\x29\xa8/ /g' \
72     | sed -e 's/\xe2\x2a\xa9/ /g' \

```

```

73 | sed -e 's/\xe2\x2b\xaa/ /g' \
74 | sed -e 's/\xe2\x2c\xab/ /g' \
75 | sed -e 's/\xe2\x2d\xac/ /g' \
76 | sed -e 's/\xe2\x2e\xad/ /g' \
77 | sed -e 's/\xe2\x2f\xae/ /g' \
78 | sed -e 's/\xe2\x30\xaf/ /g'
79 }

```

### 2.31 build\_and\_checks\_dependencies/listings/files\_listing.tex.tpl

```

1 \subsection{
2   build\_and\_checks\_dependencies/build\_and\_checks.sh.tpl
3 }
4 \label{
5   build_and_checks_dependencies:build_and_checkssh.tpl
6 }
7
8 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
9   build_and_checks_dependencies/build_and_checks.sh.tpl
10 }
11
12
13 \subsection{
14   build\_and\_checks\_dependencies/%
15   build\_md\_from\_printable\_md.sh
16 }
17 \label{
18   build_and_checks_dependencies:build_md_from_printable_mdsh
19 }
20
21 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
22   build_and_checks_dependencies/build_md_from_printable_md.sh
23 }
24
25
26 \subsection{
27   build\_and\_checks\_dependencies/%
28   call\_split\_score\_after\_before\_or\_before\_after.php
29 }
30 \label{
31   build_and_checks_dependencies:%
32   call_split_score_after_before_or_before_afterphp
33 }
34
35 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
36   build_and_checks_dependencies/%

```

```

37 call_split_score_after_before_or_before_after.php
38 }
39
40
41 \subsection{
42   build\_and\_checks\_dependencies/%
43 check\_shell\_scripts\_beginnings.sh
44 }
45 \label{
46   build_and_checks_dependencies:check_shell_scripts_beginningssh
47 }
48
49 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
50 build_and_checks_dependencies/check_shell_scripts_beginnings.sh
51 }
52
53
54 \subsection{
55   build\_and\_checks\_dependencies/check\_URLs.sh
56 }
57 \label{
58   build_and_checks_dependencies:check_URLssh
59 }
60
61 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
62 build_and_checks_dependencies/check_URLs.sh
63 }
64
65
66 \subsection{
67   build\_and\_checks\_dependencies/common\_build\_and\_checks.sh
68 }
69 \label{
70   build_and_checks_dependencies:common_build_and_checkssh
71 }
72
73 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
74 build_and_checks_dependencies/common_build_and_checks.sh
75 }
76
77
78 \subsection{
79   build\_and\_checks\_dependencies/%
80 common\_build\_and\_checks.sh.tpl
81 }
82 \label{

```

```

83   build_and_checks_dependencies:common_build_and_checkssh.tpl
84 }
85
86 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
87 build_and_checks_dependencies/common_build_and_checks.sh.tpl
88 }
89
90
91 \subsection{
92   build\_and\_checks\_dependencies/comparisons.sh
93 }
94 \label{
95   build_and_checks_dependencies:comparisonssh
96 }
97
98 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
99 build_and_checks_dependencies/comparisons.sh
100 }
101
102
103 \subsection{
104   build\_and\_checks\_dependencies/create\_PDF.sh
105 }
106 \label{
107   build_and_checks_dependencies:create_PDFsh
108 }
109
110 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
111 build_and_checks_dependencies/create_PDF.sh
112 }
113
114
115 \subsection{
116   build\_and\_checks\_dependencies/generate\_from\_template.sh
117 }
118 \label{
119   build_and_checks_dependencies:generate_from_templatessh
120 }
121
122 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
123 build_and_checks_dependencies/generate_from_template.sh
124 }
125
126
127 \subsection{
128   build\_and\_checks\_dependencies/%

```

```

129 get\_common\_text\_glob\_patterns.sh
130 }
131 \label{
132     build_and_checks_dependencies:get_common_text_glob_patternsssh
133 }
134
135 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
136 build_and_checks_dependencies/get_common_text_glob_patterns.sh
137 }
138
139
140 \subsection{
141     build\_and\_checks\_dependencies/grammar\_and\_spell\_check.sh
142 }
143 \label{
144     build_and_checks_dependencies:grammar_and_spell_checksh
145 }
146
147 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
148 build_and_checks_dependencies/grammar_and_spell_check.sh
149 }
150
151
152 \subsection{
153     build\_and\_checks\_dependencies/licenses\_templates/%
154 build\_licenses\_templates.sh
155 }
156 \label{
157     build_and_checks_dependencies:licenses_templates:%
158 build_licenses_templatesssh
159 }
160
161 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
162 build_and_checks_dependencies/licenses_templates/%
163 build_licenses_templates.sh
164 }
165
166
167 \subsection{
168     build\_and\_checks\_dependencies/licenses\_templates/%
169 license\_file\_header\_GPLv3+.c.tpl
170 }
171 \label{
172     build_and_checks_dependencies:licenses_templates:%
173 license_file_header_GPLv3+ctpl
174 }

```

```

175
176 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
177 build_and_checks_dependencies/licenses_templates/%
178 license_file_header_GPLv3+.c.tpl
179 }
180
181
182 \subsection{
183   build\_and\_checks\_dependencies/licenses\_templates/%
184 license\_file\_header\_GPLv3+.py.tpl
185 }
186 \label{
187   build_and_checks_dependencies:licenses_templates:%
188 license_file_header_GPLv3+pytpl
189 }
190
191 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
192 build_and_checks_dependencies/licenses_templates/%
193 license_file_header_GPLv3+.py.tpl
194 }
195
196
197 \subsection{
198   build\_and\_checks\_dependencies/licenses\_templates/%
199 license\_file\_header\_GPLv3+.sh.tpl
200 }
201 \label{
202   build_and_checks_dependencies:licenses_templates:%
203 license_file_header_GPLv3+shtpl
204 }
205
206 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
207 build_and_checks_dependencies/licenses_templates/%
208 license_file_header_GPLv3+.sh.tpl
209 }
210
211
212 \subsection{
213   build\_and\_checks\_dependencies/licenses\_templates/%
214 license\_file\_header\_GPLv3+.tex.tpl
215 }
216 \label{
217   build_and_checks_dependencies:licenses_templates:%
218 license_file_header_GPLv3+textpl
219 }
220

```



```

221 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
222 build_and_checks_dependencies/licenses_templates/%
223 license_file_header_GPLv3+.tex.tpl
224 }
225
226
227 \subsection{
228     build\_and\_checks\_dependencies/licenses\_templates/%
229 license\_file\_header\_GPLv3+.tpl
230 }
231 \label{
232     build_and_checks_dependencies:licenses_templates:%
233 license_file_header_GPLv3+tpl
234 }
235
236 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
237 build_and_checks_dependencies/licenses_templates/%
238 license_file_header_GPLv3+.tpl
239 }
240
241
242 \subsection{
243     build\_and\_checks\_dependencies/licenses\_templates/%
244 license\_file\_header\_LGPLv3+.c
245 }
246 \label{
247     build_and_checks_dependencies:licenses_templates:%
248 license_file_header_LGPLv3+c
249 }
250
251 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
252 build_and_checks_dependencies/licenses_templates/%
253 license_file_header_LGPLv3+.c
254 }
255
256
257 \subsection{
258     build\_and\_checks\_dependencies/licenses\_templates/%
259 license\_file\_header\_LGPLv3+.c.tpl
260 }
261 \label{
262     build_and_checks_dependencies:licenses_templates:%
263 license_file_header_LGPLv3+ctpl
264 }
265
266 \VerbatimInput[numbers=left,xleftmargin=-5mm]{

```

```

267 build_and_checks_dependencies/licenses_templates/%
268 license_file_header_LGPLv3+.c.tpl
269 }
270
271
272 \subsection{
273     build\_and\_checks\_dependencies/licenses\_templates/%
274     license\_file\_header\_LGPLv3+.py
275 }
276 \label{
277     build_and_checks_dependencies:licenses_templates:%
278     license_file_header_LGPLv3+py
279 }
280
281 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
282 build_and_checks_dependencies/licenses_templates/%
283 license_file_header_LGPLv3+.py
284 }
285
286
287 \subsection{
288     build\_and\_checks\_dependencies/licenses\_templates/%
289     license\_file\_header\_LGPLv3+.py.tpl
290 }
291 \label{
292     build_and_checks_dependencies:licenses_templates:%
293     license_file_header_LGPLv3+pytpl
294 }
295
296 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
297 build_and_checks_dependencies/licenses_templates/%
298 license_file_header_LGPLv3+.py.tpl
299 }
300
301
302 \subsection{
303     build\_and\_checks\_dependencies/licenses\_templates/%
304     license\_file\_header\_LGPLv3+.sh
305 }
306 \label{
307     build_and_checks_dependencies:licenses_templates:%
308     license_file_header_LGPLv3+sh
309 }
310
311 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
312 build_and_checks_dependencies/licenses_templates/%

```

```

313 license_file_header_LGPLv3+.sh
314 }
315
316
317 \subsection{
318     build\_and\_checks\_dependencies/licenses/templates/%
319 license\_file\_header\_LGPLv3+.sh.tpl
320 }
321 \label{
322     build_and_checks_dependencies:licenses_templates:%
323 license_file_header_LGPLv3+shtpl
324 }
325
326 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
327 build_and_checks_dependencies/licenses_templates/%
328 license_file_header_LGPLv3+.sh.tpl
329 }
330
331
332 \subsection{
333     build\_and\_checks\_dependencies/licenses/templates/%
334 license\_file\_header\_LGPLv3+.tex
335 }
336 \label{
337     build_and_checks_dependencies:licenses_templates:%
338 license_file_header_LGPLv3+tex
339 }
340
341 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
342 build_and_checks_dependencies/licenses_templates/%
343 license_file_header_LGPLv3+.tex
344 }
345
346
347 \subsection{
348     build\_and\_checks\_dependencies/licenses/templates/%
349 license\_file\_header\_LGPLv3+.tex.tpl
350 }
351 \label{
352     build_and_checks_dependencies:licenses_templates:%
353 license_file_header_LGPLv3+textpl
354 }
355
356 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
357 build_and_checks_dependencies/licenses_templates/%
358 license_file_header_LGPLv3+.tex.tpl

```

```

359 }
360
361
362 \subsection{
363     build\_and\_checks\_dependencies/licenses/templates/%
364     license\_file\_header\_LGPLv3+.tpl
365 }
366 \label{
367     build_and_checks_dependencies:licenses_templates:%
368     license_file_header_LGPLv3+tpl
369 }
370
371 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
372     build_and_checks_dependencies/licenses_templates/%
373     license_file_header_LGPLv3+.tpl
374 }
375
376
377 \subsection{
378     build\_and\_checks\_dependencies/lines\_counts.sh
379 }
380 \label{
381     build_and_checks_dependencies:lines_countssh
382 }
383
384 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
385     build_and_checks_dependencies/lines_counts.sh
386 }
387
388
389 \subsection{
390     build\_and\_checks\_dependencies/lines\_filters.sh
391 }
392 \label{
393     build_and_checks_dependencies:lines_filterssh
394 }
395
396 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
397     build_and_checks_dependencies/lines_filters.sh
398 }
399
400
401 \subsection{
402     build\_and\_checks\_dependencies/lines\_maps.sh
403 }
404 \label{

```

```

405     build_and_checks_dependencies:lines_mapssh
406 }
407
408 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
409 build_and_checks_dependencies/lines_maps.sh
410 }
411
412
413 \subsection{
414     build\_and\_checks\_dependencies/listings/%
415 files\_listing.tex.tpl
416 }
417 \label{
418     build_and_checks_dependencies:listings:files_listingtextpl
419 }
420
421 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
422 build_and_checks_dependencies/listings/files_listing.tex.tpl
423 }
424
425
426 \subsection{
427     build\_and\_checks\_dependencies/listings/%
428 files\_names\_listing.txt
429 }
430 \label{
431     build_and_checks_dependencies:listings:files_names_listingtxt
432 }
433
434 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
435 build_and_checks_dependencies/listings/files_names_listing.txt
436 }
437
438
439 \subsection{
440     build\_and\_checks\_dependencies/listings/%
441 update\_or\_check\_files\_names\_listing.sh
442 }
443 \label{
444     build_and_checks_dependencies:listings:%
445 update_or_check_files_names_listingsh
446 }
447
448 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
449 build_and_checks_dependencies/listings/%
450 update_or_check_files_names_listing.sh

```

```

451 }
452
453
454 \subsection{
455     build\_and\_checks\_dependencies/overwrite\_if\_not\_equal.sh
456 }
457 \label{
458     build_and_checks_dependencies:overwrite_if_not_equalsh
459 }
460
461 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
462 build_and_checks_dependencies/overwrite_if_not_equal.sh
463 }
464
465
466 \subsection{
467     build\_and\_checks\_dependencies/python\_black\_complement.sh
468 }
469 \label{
470     build_and_checks_dependencies:python_black_complementsh
471 }
472
473 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
474 build_and_checks_dependencies/python_black_complement.sh
475 }
476
477
478 \subsection{
479     build\_and\_checks\_dependencies/python\_isort\_complement.sh
480 }
481 \label{
482     build_and_checks_dependencies:python_isort_complementsh
483 }
484
485 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
486 build_and_checks_dependencies/python_isort_complement.sh
487 }
488
489
490 \subsection{
491     build\_and\_checks\_dependencies/split\_line\_at\_most.php
492 }
493 \label{
494     build_and_checks_dependencies:split_line_at_mostphp
495 }
496

```

```

497 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
498 build_and_checks_dependencies/split_line_at_most.php
499 }
500
501
502 \subsection{
503     build\_and\_checks\_dependencies/string\_functions.sh
504 }
505 \label{
506     build_and_checks_dependencies:string_functionssh
507 }
508
509 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
510 build_and_checks_dependencies/string_functions.sh
511 }
512
513
514 \subsection{
515     build\_and\_checks\_dependencies/too\_long\_code\_lines.sh
516 }
517 \label{
518     build_and_checks_dependencies:too_long_code_linessh
519 }
520
521 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
522 build_and_checks_dependencies/too_long_code_lines.sh
523 }
524
525
526 \subsection{
527     build\_and\_checks\_dependencies/%
528 update\_common\_build\_and\_checks.sh
529 }
530 \label{
531     build_and_checks_dependencies:update_common_build_and_checkssh
532 }
533
534 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
535 build_and_checks_dependencies/update_common_build_and_checks.sh
536 }
537
538
539 \subsection{
540     build\_and\_checks.sh
541 }
542 \label{

```

```

543     build_and_checkssh
544 }
545
546 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
547 build_and_checks.sh
548 }
549
550
551 \subsection{
552     git\_checks.sh
553 }
554 \label{
555     git_checkssh
556 }
557
558 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
559 git_checks.sh
560 }
561
562
563 \subsection{
564     latex/DevOrSysAdminScripts.tex.tpl
565 }
566 \label{
567     latex:DevOrSysAdminScriptstextpl
568 }
569
570 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
571 latex/DevOrSysAdminScripts.tex.tpl
572 }
573
574
575 \subsection{
576     LiensUtiles.txt
577 }
578 \label{
579     LiensUtilestxt
580 }
581
582 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
583 LiensUtiles.txt
584 }
585
586
587 \subsection{
588     pre-commit

```



```

589 }
590 \label{
591     pre-commit
592 }
593
594 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
595 pre-commit
596 }
597
598
599 \subsection{
600     README.md
601 }
602 \label{
603     READMEmd
604 }
605
606 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
607 README.md
608 }
609
610
611 \subsection{
612     README.md.tpl
613 }
614 \label{
615     READMEmdtpl
616 }
617
618 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
619 README.md.tpl
620 }
621
622
623 \subsection{
624     repository\_data.txt
625 }
626 \label{
627     repository_datatxt
628 }
629
630 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
631 repository_data.txt
632 }
633
634

```

```

635 \subsection{
636     unicode.php
637 }
638 \label{
639     unicodephp
640 }
641
642 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
643     unicode.php
644 }
645
646
647 \subsection{
648     upgrade\_build\_and\_checks.sh
649 }
650 \label{
651     upgrade_build_and_checkssh
652 }
653
654 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
655     upgrade_build_and_checks.sh
656 }
657
658
659 \subsection{
660     wget\_sha512.sh
661 }
662 \label{
663     wget_sha512sh
664 }
665
666 \VerbatimInput[numbers=left,xleftmargin=-5mm]{
667     wget_sha512.sh
668 }
669
670

```

## 2.32 build\_and\_checks\_dependencies/listings/files\_names\_listing.txt

```

1 // Blasé20240517Résultat.txt
2 // Blasé20240517.sh
3 // Blasé20240518_2.txt
4 // Blasé20240518_3.txt
5 build_and_checks_dependencies/build_and_checks.sh.tpl
6 build_and_checks_dependencies/build_md_from_printable_md.sh
7 build_and_checks_dependencies/\

```

```

8  call_split_score_after_before_or_before_after.php
9  build_and_checks_dependencies/check_shell_scripts_beginnings.sh
10 build_and_checks_dependencies/check_URLs.sh
11 build_and_checks_dependencies/common_build_and_checks.sh
12 build_and_checks_dependencies/common_build_and_checks.sh.tpl
13 build_and_checks_dependencies/comparisons.sh
14 build_and_checks_dependencies/create_PDF.sh
15 build_and_checks_dependencies/generate_from_template.sh
16 build_and_checks_dependencies/get_common_text_glob_patterns.sh
17 build_and_checks_dependencies/grammar_and_spell_check.sh
18 build_and_checks_dependencies/licenses_templates/\
19 build_licenses_templates.sh
20 build_and_checks_dependencies/licenses_templates/\
21 license_file_header_GPLv3+.c.tpl
22 build_and_checks_dependencies/licenses_templates/\
23 license_file_header_GPLv3+.py.tpl
24 build_and_checks_dependencies/licenses_templates/\
25 license_file_header_GPLv3+.sh.tpl
26 build_and_checks_dependencies/licenses_templates/\
27 license_file_header_GPLv3+.tex.tpl
28 build_and_checks_dependencies/licenses_templates/\
29 license_file_header_GPLv3+.tpl
30 build_and_checks_dependencies/licenses_templates/\
31 license_file_header_LGPLv3+.c
32 build_and_checks_dependencies/licenses_templates/\
33 license_file_header_LGPLv3+.c.tpl
34 build_and_checks_dependencies/licenses_templates/\
35 license_file_header_LGPLv3+.py
36 build_and_checks_dependencies/licenses_templates/\
37 license_file_header_LGPLv3+.py.tpl
38 build_and_checks_dependencies/licenses_templates/\
39 license_file_header_LGPLv3+.sh
40 build_and_checks_dependencies/licenses_templates/\
41 license_file_header_LGPLv3+.sh.tpl
42 build_and_checks_dependencies/licenses_templates/\
43 license_file_header_LGPLv3+.tex
44 build_and_checks_dependencies/licenses_templates/\
45 license_file_header_LGPLv3+.tex.tpl
46 build_and_checks_dependencies/licenses_templates/\
47 license_file_header_LGPLv3+.tpl
48 build_and_checks_dependencies/lines_counts.sh
49 build_and_checks_dependencies/lines_filters.sh
50 build_and_checks_dependencies/lines_maps.sh
51 build_and_checks_dependencies/listings/files_listing.tex.tpl
52 build_and_checks_dependencies/listings/files_names_listing.txt
53 build_and_checks_dependencies/listings/\

```

```

54 update_or_check_files_names_listing.sh
55 build_and_checks_dependencies/overwrite_if_not_equal.sh
56 build_and_checks_dependencies/python_black_complement.sh
57 build_and_checks_dependencies/python_isort_complement.sh
58 build_and_checks_dependencies/split_line_at_most.php
59 build_and_checks_dependencies/string_functions.sh
60 build_and_checks_dependencies/too_long_code_lines.sh
61 build_and_checks_dependencies/update_common_build_and_checks.sh
62 build_and_checks.sh
63 // EncoreBlasé20240517-20240518.txt
64 git_checks.sh
65 latex/DevOrSysAdminScripts.tex.tpl
66 LiensUtiles.txt
67 pre-commit
68 README.md
69 README.md.tpl
70 repository_data.txt
71 unicode.php
72 upgrade_build_and_checks.sh
73 wget_sha512.sh

```

### 2.33 build\_and\_checks\_dependencies/listings/update\_or\_check\_files\_names\_listing.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
5  # you can redistribute it and/or modify it under the terms
6  # of the GNU Lesser General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
11 # DevOrSysAdminScripts is distributed in the hope
12 # that it will be useful,
13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
18 # You should have received a copy of
19 # the GNU Lesser General Public License
20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet

```

```

24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/lines_filters.sh"
27 source "$subdir/string_functions.sh"
28 subdir2="$subdir/listings"
29 files_names_listing="$subdir2/files_names_listing.txt"
30
31 grep_variable repository_data.txt repository_name
32
33 if [[ "$1" == "--write" ]]; then
34     > "$files_names_listing"
35 fi
36 sed_expression='s/\\n/Mg'
37 sed -Ez "$sed_expression" "$files_names_listing" \
38     > "$files_names_listing.temp1"
39 sed -Ez "$sed_expression" "$files_names_listing.temp1" \
40     > "$files_names_listing.temp2"
41 sed -Ez "$sed_expression" "$files_names_listing.temp2" \
42     > "$files_names_listing.temp3"
43 sed -Ez "$sed_expression" "$files_names_listing.temp3" \
44     > "$files_names_listing.temp4"
45 shopt -s dotglob
46 get_split_score_after_before 70 /
47 split_score_command="$LFBFL_generic_result"
48 suffix='\\'
49 find . -type f -printf '%P\n' | relevant_find | sort \
50     | while read -r file_name;
51 do
52     git check-ignore -q "$file_name" && continue
53     base_file_name=$(basename "$file_name")
54     [ "$base_file_name" != "current_tree_light.txt" ] || continue
55     [ "$base_file_name" != "current_tree.txt" ] || continue
56     [ "$base_file_name" != "COPYING" ] || continue
57     [ "$base_file_name" != "COPYING.LESSER" ] || continue
58     [ "$base_file_name" != "$repository_name.pdf" ] || continue
59     [ "$base_file_name" != "$repository_name.tex" ] || continue
60     [ "$base_file_name" != "files_names_listing.txt.temp1" ] || continue
61     [ "$base_file_name" != "files_names_listing.txt.temp2" ] || continue
62     [ "$base_file_name" != "files_names_listing.txt.temp3" ] || continue
63     [ "$base_file_name" != "files_names_listing.txt.temp4" ] || continue
64     if [[ "$base_file_name" == *.md ]]; then
65         if [ -f "$file_name.tpl" ]; then
66             # in_place_grep -v "$base_file_name$" current_tree.txt
67             # in_place_grep -v "$base_file_name$" current_tree_light.txt
68             continue
69         fi

```

```

70 fi
71 new_lines="$file_name"
72 split_last_line "$new_lines" "" 70 "$suffix" "$split_score_command"
73 new_lines=$split_last_line_result
74 split_last_line "$new_lines" "" 70 "$suffix" "$split_score_command"
75 new_lines=$split_last_line_result
76 split_last_line "$new_lines" "" 70 "$suffix" "$split_score_command"
77 new_lines=$split_last_line_result
78 if [[ "$1" == "--write" ]]; then
79     echo "$file_name"\
80         | sed -e "s|$file_name|$new_lines|g"\
81         >> "$files_names_listing"
82     continue
83 fi
84 if grep -q "$file_name\$" "$files_names_listing.temp4"; then
85     echo ""
86 else
87     echo "The file $file_name is not listed in $files_names_listing."
88     if [[ "$1" == "--append" ]]; then
89         echo "$file_name"\
90             | sed -e "s|$file_name|$new_lines|g"\
91             >> "$files_names_listing"
92     fi
93 fi
94 done
95 rm "$files_names_listing.temp1" "$files_names_listing.temp2"\
96     "$files_names_listing.temp3" "$files_names_listing.temp4"
97 shopt -u dotglob
98 shopt -s globstar

```

## 2.34 build\_and\_checks\_dependencies/overwrite\_if\_not\_equal.sh

```

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

```

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

```

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```

```

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

```

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

```

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```



```

24
25 subdir="build_and_checks_dependencies"
26 source "$subdir/lines_filters.sh"
27 source "$subdir/overwrite_if_not_equal.sh"
28
29 check_collections_abc_place(){
30     echo "Checking import of _collections_abc is at the right place"
31     LFBFL_temp=".check_collections_abc_place.temp"
32     find . -name "*.py" | relevant_find\
33         | while read -r LFBFL_file_name; do
34         [ -f "$LFBFL_file_name" ] || continue
35         sed -Ez 's/\n(\nfrom _collections_abc[^\n]*)/\1\nMg'\
36             "$LFBFL_file_name" > "$LFBFL_file_name$LFBFL_temp"
37         overwrite_if_not_equal "$LFBFL_file_name"\
38             "$LFBFL_file_name$LFBFL_temp"
39     done
40 }
41
42 python_isort_complement(){
43     check_collections_abc_place
44 }

```

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

```

1 <?php
2 /*
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```

```

23
24  ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
25  */
26
27  function generate_split_score_after_before(
28      $max_length,
29      $delimiter_strings_domain,
30  ){
31      return function(
32          $delimiter_string,
33          $cut_position,
34          $is_cut_after
35      ) use ($max_length, $delimiter_strings_domain){
36          if(!in_array($delimiter_string, $delimiter_strings_domain, true)){
37              // I do not handle regexps for the moment.
38              // I'm too brainfucked. I just want to finish this feature fast
39              // for HTML and Tex/PDF listings generation with HTML and Tex on
40              // at most 70 characters.
41              return -1;
42          }
43          if($is_cut_after){
44              return $max_length + $cut_position;
45          }
46          return $cut_position;
47      };
48  }
49
50
51
52  function generate_split_score_before_after(
53      $max_length,
54      $delimiter_strings_domain,
55  ){
56      return function(
57          $delimiter_string,
58          $cut_position,
59          $is_cut_after
60      ) use ($max_length, $delimiter_strings_domain){
61          if(!in_array($delimiter_string, $delimiter_strings_domain, true)){
62              // I do not handle regexps for the moment.
63              // I'm too brainfucked. I just want to finish this feature fast
64              // for HTML and Tex/PDF listings generation with HTML and Tex on
65              // at most 70 characters.
66              return -1;
67          }
68          if(!$is_cut_after){

```

```

69         return $max_length + $cut_position;
70     }
71     return $cut_position;
72 };
73 }
74

```

## 2.38 build\_and\_checks\_dependencies/string\_functions.sh

```

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23 # ©Copyright 2023–2024 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
29 subdir="build_and_checks_dependencies"
30 source "$subdir/get_common_text_glob_patterns.sh"
31 source "$subdir/comparisons.sh"
32
33 split_line_at() {
34     # $1=$line
35     # $2=$position
36     split_line_at_result_beginning="${1:0:$2}"
37     split_line_at_result_end="${1:$2}"

```

```

38     # echo "$split_line_at_result_beginning"
39     # echo "$split_line_at_result_end"
40 }
41
42 split_score_after_before() {
43     # No function generator in bash, this function and the following
44     # will assume that we just take into account the third argument.
45     # $1=$delimiter_string
46     # $2=$cut_position
47     # $3=$is_cut_after
48     if [[ "$3" == "1" ]]; then
49         return 2
50     fi
51     return 1
52 }
53
54 split_score_before_after() {
55     # No function generator in bash, this function and the following
56     # will assume that we just take into account the third argument.
57     # $1=$delimiter_string
58     # $2=$cut_position
59     # $3=$is_cut_after
60     if [[ "$3" == "0" ]]; then
61         return 2
62     fi
63     return 1
64 }
65
66 get_split_score_after_before() {
67     # $1=$max_length
68     # $2=delimiters_strings_domain
69     LFBFL_generic_result="./build_and_checks_dependencies/"
70     LFBFL_generic_result+="call_split_score_after_before_or"
71     LFBFL_generic_result+="_before_after.php 1 $1 '$2' "
72 }
73
74 get_split_score_before_after() {
75     # $1=$max_length
76     # $2=delimiters_strings_domain
77     LFBFL_generic_result="./build_and_checks_dependencies/"
78     LFBFL_generic_result+="call_split_score_after_before_or"
79     LFBFL_generic_result+="_before_after.php 0 $1 '$2' "
80 }
81
82 split_line_at_most() {
83     # $1=$line

```

```

84 # $2=$max_length of beginning result string
85 # $3=$split_score_command
86 # negative score means do not consider as a possible split
87 # $4=$split_score_command_delimiter_strings_domain
88 # optimisation if small domain
89 # - this argument can be "null", then we will use $3 only instead,
90 # in that case, only mono-character strings are considered,
91 # - this argument can be an array of characters,
92 # optimize accordingly,
93 # - this argument can be an array of strings,
94 # optimize accordingly,
95 # - this argument can be an array of regexps,
96 # optimize accordingly.
97 # Not sure an array of regexps makes more sense than a single
98 # one. Maybe they could be both cases with corresponding
99 # optimizations. Same for a single character or substring.
100 declare -g split_line_at_most_result_start
101 declare -g split_line_at_most_result_end
102 declare -A split_line_at_most_var_positions
103 split_line_at_most_var_positions=([ "$2" ]=0)
104 # echo "$1 $2 $3"
105 # For my use case in bash scripts, I will need only an array of
106 # characters. See get_split_score_after_before().
107 if [[ -n "$4" ]]; then
108     echo "split_line_at_most() \$4 NOT IMPLEMENTED YET"
109 fi
110 if [[ "$2" -ge "${#1}" ]]; then
111     split_line_at_most_result_start=$1
112     split_line_at_most_result_end=""
113     return
114 fi
115 split_line_at_most_var_sort_command="sort --numeric-sort"
116 LFBFL_length_minus_1=$(( ${#1} - 1 ) )
117 LFBFL_i_max=$(( min 'sort --numeric-sort' $LFBFL_length_minus_1 $2 ) )
118 for (( i=0; i<$LFBFL_i_max; i++ )) do
119     j=$(( i+1 ))
120     split_line_at_most_var_current_char="${1:$i:1}"
121     LFBFL_command1="$3 '$split_line_at_most_var_current_char' $i 0"
122     LFBFL_command2="$3 '$split_line_at_most_var_current_char' $j 1"
123     # echo "$LFBFL_command1"
124     # echo "$LFBFL_command2"
125     LFBFL_temp=$(( eval $LFBFL_command1 ))
126     # echo "$LFBFL_temp|$i"
127     if [[ $LFBFL_temp -ge 0 ]]; then
128         # echo "$LFBFL_temp|$i"
129         if [[ ${#split_line_at_most_var_positions["$i"]} == 0 ]]; then

```

```

130         split_line_at_most_var_positions["$i"]=$LFBFL_temp
131     else
132         split_line_at_most_var_positions["$i"]=$( \
133             max "$split_line_at_most_var_sort_command" \
134                 split_line_at_most_var_positions["$i"] \
135                 $LFBFL_temp
136         )
137     fi
138 fi
139 LFBFL_temp=$(eval $LFBFL_command2)
140 # echo "$LFBFL_temp|$j"
141 if [[ $LFBFL_temp -ge 0 ]]; then
142     # echo "$LFBFL_temp|$j"
143     if [[ ${#split_line_at_most_var_positions["$j"]} == 0 ]]; then
144         split_line_at_most_var_positions["$j"]=$LFBFL_temp
145     else
146         split_line_at_most_var_positions["$j"]=$( \
147             max "$split_line_at_most_var_sort_command" \
148                 split_line_at_most_var_positions["$j"] \
149                 $LFBFL_temp
150         )
151     fi
152 fi
153 done
154 declare -a LFBFL_joined_args=()
155 LFBFL_i=0
156 for LFBFL_key in "${!split_line_at_most_var_positions[@]}"; do
157     LFBFL_value=${split_line_at_most_var_positions[$LFBFL_key]}
158     # echo "$LFBFL_key $LFBFL_value"
159     LFBFL_joined_args[$LFBFL_i]="$LFBFL_key $LFBFL_value"
160     LFBFL_i=$((LFBFL_i + 1))
161 done
162 while read -r LFBFL_best_position ;
163 do
164     split_line_at "$1" "$LFBFL_best_position"
165     split_line_at_most_result_start=$split_line_at_result_beginning
166     split_line_at_most_result_end=$split_line_at_result_end
167     done <<EOT
168 $(max 'sort --numeric-sort -k2' "${LFBFL_joined_args[@]}" \
169     | cut -d ' ' -f 1)
170 EOT
171 # echo "$split_line_at_most_result_start"
172 # echo "$split_line_at_most_result_end"
173 }
174
175 split_last_line() {

```

```

176 # $1=$new_lines
177 # $2=$prefix
178 # $3=$max_length
179 # $4=$suffix
180 # $5=$split_score_command
181 split_last_line_result="$1"
182 LFBFL_max_length_plus=$(( $3 + 1 ))
183 LFBFL_length2=$(( $3 - ${#4} ))
184 LFBFL_regexp='.\{' "$LFBFL_max_length_plus" '\}'
185 if echo "$1" | sed -e 's/\\n/\\n/g' | grep -q "$LFBFL_regexp"; then
186     LFBFL_start=$( \
187         echo "$1" | sed -e 's/\\n/\\n/g' | head --lines=-1\
188         | sed -z 's/\\n/\\n/g' \
189     )
190     # echo "start: $LFBFL_start"
191     LFBFL_last_line=$( \
192         echo "$1" | sed -e 's/\\n/\\n/g' | tail --lines=1\
193     )
194     # echo "last_line: $LFBFL_last_line"
195     split_last_line_result=""
196     if [[ -n "$LFBFL_start" ]]; then
197         split_last_line_result="$LFBFL_start\n"
198     fi
199     if [[ -n "$5" ]]; then
200         split_line_at_most "$LFBFL_last_line" "$LFBFL_length2"\
201             "$5"
202         split_last_line_result+="$split_line_at_most_result_start$4"
203         split_last_line_result+="\n"
204         split_last_line_result+="$2$split_line_at_most_result_end"
205     else
206         split_last_line_result+="{LFBFL_last_line:0:LFBFL_length2}$4"
207         split_last_line_result+="\n"
208         split_last_line_result+="{LFBFL_last_line:LFBFL_length2}"
209     fi
210 fi
211 }

```

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

```

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

```

## 2.40 build\_and\_checks\_dependencies/update\_common\_build\_and\_checks.sh

```

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23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 cp ./common_build_and_checks.sh.tpl ./common_build_and_checks.sh
26
27 file_names=(\
28     "build_md_from_printable_md.sh"\
29     "check_shell_scripts_beginnings.sh"\
30     "check_URLs.sh"\
31     "comparisons.sh"\
32     "create_PDF.sh"\
33     "generate_from_template.sh"\
34     "get_common_text_glob_patterns.sh"\
35     "grammar_and_spell_check.sh"\
36     "licenses_templates/build_licenses_templates.sh"\
37     "licenses_templates/license_file_header_GPLv3+.tpl"\
38     "licenses_templates/license_file_header_LGPLv3+.tpl"\
39     "lines_counts.sh"\
40     "lines_filters.sh"\
41     "lines_maps.sh"\
42     "listings/update_or_check_files_names_listing.sh"\
43     "listings/files_names_listing.txt"\
44     "overwrite_if_not_equal.sh"\
45     "python_black_complement.sh"\
46     "python_isort_complement.sh"\
47     "too_long_code_lines.sh"\
48 )
49
50 for file_name in "${file_names[@]}; do
51     file_sha512=$(sha512sum ".$file_name" | cut -f1 -d' ')
52     file_sha512_1="correct_sha512='${file_sha512:0:53}'"
53     file_sha512_2="correct_sha512\+='${file_sha512:53:52}'"
54     file_sha512_3="correct_sha512\+='${file_sha512:105}'"
55     file_sha512_all="$file_sha512_1\n"
56     file_sha512_all+="$file_sha512_2\n"
57     file_sha512_all+="$file_sha512_3"
58     base_file_name=$(basename "$file_name")
59     sed -i "s|@sha512_$base_file_name@|$file_sha512_all|g"\
60         ./common_build_and_checks.sh
61 done

```

```

62
63 cp ./build_and_checks.sh.tpl ../build_and_checks.sh
64
65 file_sha512=$(sha512sum common_build_and_checks.sh | cut -f1 -d' ')
66 file_sha512_1="correct_sha512='${file_sha512:0:53}'"
67 file_sha512_2="correct_sha512\+='${file_sha512:53:52}'"
68 file_sha512_3="correct_sha512\+='${file_sha512:105}'"
69 file_sha512_all="$file_sha512_1\n"
70 file_sha512_all+="$file_sha512_2\n"
71 file_sha512_all+="$file_sha512_3"
72 sed -i "s|@sha512_common_build_and_checks.sh@|$file_sha512_all|g"\
73     ../build_and_checks.sh

```

## 2.41 build\_and\_checks.sh

```

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24
25 source ./wget_sha512.sh
26
27 mkdir -p build_and_checks_dependencies/licenses_templates
28 mkdir -p build_and_checks_dependencies/listings
29 subdir="build_and_checks_dependencies"
30
31 personal_github="https://raw.githubusercontent.com/LLyaudet/"

```

```

32 dependencies="DevOrSysAdminScripts/main/build_and_checks_dependencies"
33 URL_beginning="$personal_github$dependencies"
34
35 script="$URL_beginning/common_build_and_checks.sh"
36 correct_sha512='e1b0b3316cd46f4b7fa2b3c8c2ad7bf10e8d17936b421ca3e43b5'
37 correct_sha512+='2b07dda112fe39d62768b59512977cc20aa208e9c16657eed77f'
38 correct_sha512+='2abd0f12006605de46a22b1'
39 wget_sha512 "$subdir/common_build_and_checks.sh" "$script" \
40     "$correct_sha512"
41 chmod +x "$subdir/common_build_and_checks.sh"
42
43 cwd="."
44 if [[ -n "$1" ]];
45 then
46     cwd="$1"
47 fi
48
49 ./build_and_checks_dependencies/common_build_and_checks.sh "$cwd"

```

## 2.42 git\_checks.sh

```

1  #!/usr/bin/env bash
2  # This file is part of DevOrSysAdminScripts library.
3  #
4  # DevOrSysAdminScripts is free software:
5  # you can redistribute it and/or modify it under the terms
6  # of the GNU Lesser General Public License
7  # as published by the Free Software Foundation,
8  # either version 3 of the License,
9  # or (at your option) any later version.
10 #
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13 # but WITHOUT ANY WARRANTY;
14 # without even the implied warranty of
15 # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
16 # See the GNU Lesser General Public License for more details.
17 #
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20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24
25 check_files() {

```

```

26     check_files_var_send_summary_1="ATTENTION : models modifiés"
27     check_files_var_send_body_1="Vérifiez si besoin de migrations"
28     check_files_var_send_body_2=\
29 "Pensez aussi aux contraintes d'unicités"
30     check_files_var_send_body_2+=" dès la création du modèle"
31     check_files_var_send_summary_2="ATTENTION : serializers modifiés"
32     check_files_var_send_body_3=\
33 "Les nouveaux preloadings sont interdits -> #Prefetch()"
34     if git diff --cached --name-only | grep models;
35     then
36         notify-send "$check_files_var_send_summary_1"\
37             "$check_files_var_send_body_1"
38         notify-send "$check_files_var_send_summary_1"\
39             "$check_files_var_send_body_2"
40     fi
41     if git diff --cached --name-only | grep serializer;
42     then
43         notify-send "$check_files_var_send_summary_2"\
44             "$check_files_var_send_body_3"
45     fi
46     return 0
47 }
48
49
50 check_no_abusive_trailing_comma(){
51     LFBFL_send_summary_1="ATTENTION"
52     LFBFL_send_body_1="Il semblerait que vous affectiez un tuple"
53     LFBFL_send_body_1+=" au lieu d'une autre valeur dans une variable."
54     if git diff --cached -r | grep ' = .*,\s*$';
55     then
56         notify-send "$LFBFL_send_summary_1" "$LFBFL_send_body_1"
57         return 1
58     fi
59     return 0
60 }
61
62
63 check_black_code_formatting(){
64     # attention ça ne marche que sur les fichiers "stagés" avec git add
65     LFBFL_files_string=$( \
66         git diff --cached --name-only | grep '\.py'\
67     )
68     echo "$LFBFL_files_string"
69     mapfile -t LFBFL_some_files <<< "$LFBFL_files_string"
70     LFBFL_error=0
71     for LFBFL_file in ${LFBFL_some_files[@]}; do

```

```

72     echo "Black will check formatting on file $LFBFL_file"
73     if ! black --check --diff "$LFBFL_file";
74     then
75         LFBFL_error=1
76     fi
77 done
78 if [ $LFBFL_error -eq '1' ];
79 then
80     return 1
81 fi
82 return 0
83 }

```

## 2.43 latex/DevOrSysAdminScripts.tex.tpl

```

1  % This file is part of DevOrSysAdminScripts library.
2  %
3  % DevOrSysAdminScripts is free software:
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7  % either version 3 of the License,
8  % or (at your option) any later version.
9  %
10 % DevOrSysAdminScripts is distributed in the hope
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12 % but WITHOUT ANY WARRANTY;
13 % without even the implied warranty of
14 % MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
15 % See the GNU Lesser General Public License for more details.
16 %
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19 % along with DevOrSysAdminScripts.
20 % If not, see <https://www.gnu.org/licenses/>.
21 %
22 % ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
23
24 \documentclass{article}
25
26 \usepackage[utf8]{inputenc}
27 \usepackage[T1]{fontenc}
28 \usepackage{subfigure}
29 \usepackage{amsmath}
30 \usepackage{amssymb}
31 \usepackage{amsthm}

```

```

32 \usepackage[pdftex]{hyperref}
33 \usepackage{tikz}
34 \usepackage{caption}
35 \usepackage[round]{natbib}
36 \usepackage{fancyhdr}
37 \usepackage{amsfonts}
38 \usepackage{times}
39 \usepackage{ifpdf}
40 \usepackage{latexsym}
41 \usepackage{graphicx}
42 \usepackage{enumerate}
43 \usepackage{pmbboxdraw}
44 \usepackage{fancyvrb}
45 \usepackage[french,english]{babel}
46
47 % *** les environnements ***
48 %\theoremstyle{break}
49 \newtheorem{definition}[section]{Definition}
50 \newtheorem{proposition}[definition]{Proposition}
51 \newtheorem{theorem}[definition]{Theorem}
52 \newtheorem{lemma}[definition]{Lemma}
53 \newtheorem{corollary}[definition]{Corollary}
54 \newtheorem{remark}[definition]{Remark}
55 \newtheorem{openproblem}[definition]{Open problem}
56
57 \begin{document}
58
59 \author{
60   @author_full_name@\\
61   \url{@author_website@}\\
62   \href{mailto:@author_email@}{@author_email@}
63 }
64 \title{@repository_name@}
65
66 \maketitle
67 \begin{abstract}
68 @abstract@
69 \end{abstract}
70
71 Current version: @current_date@
72
73 Current number of commits: @number_of_commits@
74
75 Current git SHA1: @current_git_SHA1@
76
77 Code lines: @number_of_lines@

```

```

78
79 \section{Files tree}
80 \label{section:tree}
81
82 \begin{verbatim}
83 @current_tree_light@
84 \end{verbatim}
85
86 \begin{verbatim}
87 @current_tree@
88 \end{verbatim}
89
90 \section{Listing of files}
91 \label{section:listing}
92
93 The following source code is covered by LGPLv3+.
94 The text of the license is available at:
95 \url{https://www.gnu.org/licenses/}.
96 The git repository of this source code is also available at:
97 \url{https://github.com/LLyaudet/@repository_name@/}.
98
99 @files_listing_VerbatimInput@
100
101 @acknowledgments@
102
103 \end{document}

```

## 2.44 LiensUtiles.txt

```

1 https://support.google.com/a/answer/9476255?hl=fr#zippy=%2C%C3%A9tape\
2 -configurez-le-service-de-migration-de-donn%C3%A9es
3 https://stackoverflow.com/a/78413334/5796086
4 https://stackoverflow.com/questions/21612980/\
5 why-is-usr-bin-env-bash-superior-to-bin-bash/78413334
6 https://web.archive.org/web/20240501105801/https://stackoverflow.com\
7 /questions/21612980/why-is-usr-bin-env-bash-superior-to-bin-bash/\
8 78413334#78413334

```

## 2.45 pre-commit

```

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```

```

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20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023-2024 Laurent Frédéric Bernard François Lyaudet
24
25 . ../git_checks.sh
26
27 git_hook_error=0
28 if ! check_files
29 then
30     git_hook_error=1
31 fi
32 if ! check_no_abusive_trailing_comma
33 then
34     git_hook_error=1
35 fi
36 if ! check_black_code_formatting
37 then
38     git_hook_error=1
39 fi
40 if [ $git_hook_error -eq '1' ];
41 then
42     exit 1
43 fi
44 exit 0

```

## 2.46 README.md

```

1  # DevOrSysAdminScripts
2
3  [[CodeFactor-badge]][CodeFactor-package-page]
4  [[CodeClimateMaintainability-badge]][CodeClimateM13y-package-page]
5  [[Codacy-badge]][Codacy-package-page]

```



```

6  ![GitHub-top-language-badge]
7  ![GitHub-license-badge]
8  ![GitHub-code-size-in-bytes-badge]
9
10 |                               **Some "small" useful scripts**                               |
11 | :-----:
12 | **for enhancing development or system-administrators tasks** |
13
14 Currently, the biggest part of this repository is in
15 a suite of shell scripts about build and checks that
16 I use in some of my other repositories.
17
18 [CodeFactor-badge]: https://www.codefactor.io/repository/github/llyaudet/DevOrSysAdminScripts
19
20 [CodeFactor-package-page]: https://www.codefactor.io/repository/github/llyaudet/DevOrSysAdminScripts
21
22 [CodeClimateMaintainability-badge]: https://api.codeclimate.com/v1/badges/b619ce83a1b1b1b1b1b1
23
24 [CodeClimateM13y-package-page]: https://codeclimate.com/github/LLyaudet/DevOrSysAdminScripts
25
26 [Codacy-badge]: https://app.codacy.com/project/badge/Grade/3dd6ef85e8db4460991d1eb0b1b1b1b1b1
27
28 [Codacy-package-page]: https://app.codacy.com/gh/LLyaudet/DevOrSysAdminScripts/dashboard
29
30 [GitHub-top-language-badge]: https://img.shields.io/github/languages/top/llyaudet/DevOrSysAdminScripts
31
32 [GitHub-license-badge]: https://img.shields.io/github/license/llyaudet/DevOrSysAdminScripts
33
34 [GitHub-code-size-in-bytes-badge]: https://img.shields.io/github/languages/code-size/llyaudet/DevOrSysAdminScripts

```

## 2.47 README.md.tpl

```

1  # DevOrSysAdminScripts
2
3  [![CodeFactor-badge]][CodeFactor-package-page]
4  [![CodeClimateMaintainability-badge]][CodeClimateM13y-package-page]
5  [![Codacy-badge]][Codacy-package-page]
6  ![GitHub-top-language-badge]
7  ![GitHub-license-badge]
8  ![GitHub-code-size-in-bytes-badge]
9
10 |                               **Some "small" useful scripts**                               |
11 | :-----:
12 | **for enhancing development or system-administrators tasks** |
13
14 Currently, the biggest part of this repository is in

```

```

15 a suite of shell scripts about build and checks that
16 I use in some of my other repositories.
17
18 [CodeFactor-badge]: https://www.codefactor.io/repository/github/\
19 llyaudet/DevOrSysAdminScripts/badge
20
21 [CodeFactor-package-page]: https://www.codefactor.io/repository/\
22 github/llyaudet/DevOrSysAdminScripts
23
24 [CodeClimateMaintainability-badge]: https://api.codeclimate.com/v1/\
25 badges/b619ce83a81cc4a55e18/maintainability
26
27 [CodeClimateM13y-package-page]: https://codeclimate.com/\
28 github/LLyaudet/DevOrSysAdminScripts/maintainability
29
30 [Codacy-badge]: https://app.codacy.com/project/badge/Grade/\
31 3dd6ef85e8db4460991d1ebc404b68dd
32
33 [Codacy-package-page]: https://app.codacy.com/gh/LLyaudet/\
34 DevOrSysAdminScripts/dashboard?utm_source=gh&utm_medium=referral\
35 &utm_content=&utm_campaign=Badge_grade
36
37 [GitHub-top-language-badge]: https://img.shields.io/github/\
38 languages/top/llyaudet/DevOrSysAdminScripts
39
40 [GitHub-license-badge]: https://img.shields.io/github/license/\
41 llyaudet/DevOrSysAdminScripts
42
43 [GitHub-code-size-in-bytes-badge]: https://img.shields.io/github/\
44 languages/code-size/llyaudet/DevOrSysAdminScripts

```

## 2.48 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 author_email=Laurent.Lyaudet@gmail.com
8 author_full_name=Laurent Frédéric Bernard François Lyaudet
9 author_last_name=Lyaudet
10 author_name=Laurent Lyaudet
11 author_website=https://lyaudet.eu/laurent/
12 acknowledgments=Merci Dieu !
13 acknowledgments=Merci Père ! Merci Seigneur ! Merci Saint Esprit !

```

14 grammar\_or\_spell\_checker\_command=more

## 2.49 unicode.php

```
1  <?php
2  /*
3   This file is part of DevOrSysAdminScripts library.
4
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8   as published by the Free Software Foundation,
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11
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15  without even the implied warranty of
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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 2023–2024 Laurent Frédéric Bernard François Lyaudet
25  */
26
27  function decimal_code_point_to_UTF8(
28      $i_code_point_in_decimal_notation
29  ){
30      // var_dump($i_code_point_in_decimal_notation);
31      // 0xxxxxxx ASCII
32      if($i_code_point_in_decimal_notation < 128){
33          return chr($i_code_point_in_decimal_notation);
34      }
35      $i_continuation_base_value = 128;
36      // 110xxxxx 10xxxxxx
37      if($i_code_point_in_decimal_notation < 256 * (2**3)){
38          $i_first_byte_base_value = 192;
39          $i_last_byte_significant_bits = (
40              $i_code_point_in_decimal_notation % (2**6)
41          );
42          $i_first_byte_significant_bits = (int) (
```

```

43         (
44             $i_code_point_in_decimal_notation
45             - $i_last_byte_significant_bits
46         ) / (2**6)
47     );
48     $s_result = chr(
49         $i_first_byte_base_value
50         + $i_first_byte_significant_bits
51     );
52     $s_result .= chr(
53         $i_continuation_base_value
54         + $i_last_byte_significant_bits
55     );
56     return $s_result;
57 }
58 // 1110xxxx 10xxxxxx 10xxxxxx
59 if($i_code_point_in_decimal_notation < 256 * 256){
60     $i_first_byte_base_value = 224;
61     $i_last_byte_significant_bits = (
62         $i_code_point_in_decimal_notation % (2**6)
63     );
64     $i_first_bytes_significant_bits = (int) (
65         (
66             $i_code_point_in_decimal_notation
67             - $i_last_byte_significant_bits
68         ) / (2**6)
69     );
70     $i_other_continuation_byte_significant_bits = (
71         $i_first_bytes_significant_bits % (2**6)
72     );
73     $i_first_byte_significant_bits = (int) (
74         (
75             $i_first_bytes_significant_bits
76             - $i_other_continuation_byte_significant_bits
77         ) / (2**6)
78     );
79     $s_result = chr(
80         $i_first_byte_base_value
81         + $i_first_byte_significant_bits
82     );
83     $s_result .= chr(
84         $i_other_continuation_byte_significant_bits
85         + $i_last_byte_significant_bits
86     );
87     $s_result .= chr(
88         $i_continuation_base_value

```

```

89         + $i_last_byte_significant_bits
90     );
91     return $s_result;
92 }
93 // 11110xxx 10xxxxxx 10xxxxxx 10xxxxxx
94 if($i_code_point_in_decimal_notation < 256 * 256 * (2**5)){
95     $i_first_byte_base_value = 240;
96     $arr_arr_data_per_byte_reverse = [
97         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
98         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
99         ["i_bits" => 6, "i_base_value" => $i_continuation_base_value],
100        ["i_bits" => 3, "i_base_value" => $i_first_byte_base_value],
101    ];
102    $i_rest = $i_code_point_in_decimal_notation;
103    $s_result = "";
104    foreach($arr_arr_data_per_byte_reverse as $arr_data){
105        $i_significant_bits = $i_rest % (2**$arr_data["i_bits"]);
106        $i_rest = (int) (
107            ($i_rest - $i_significant_bits) / (2**$arr_data["i_bits"])
108        );
109        $s_result = chr($i_significant_bits).$s_result; // .= or =.
110    }
111    return $s_result;
112    // TODO factoriser comme ce if, la flemme là tout de suite
113    // (5 h 22 du matin).
114 }
115 throw new Exception(
116     "UTF-8 avec jusqu'à 6 octets a été abandonné il y a longtemps."
117     ." Autre anecdote \"débile\" : MySQL a de base UTF-8 avec jusqu'à"
118     ." 3 octets au lieu de 4 :face-palm:."
119     ." Du coup, ça peut donner quelques \"surprises\"."
120     ." Sinon, y'a aussi ASCII dans MySQL."
121     ." Et comme ça joue sur la mémoire et les performances,"
122     ." pourquoi ils n'ont pas fait ASCII, UTF-8-2, UTF-8-3, UTF-8-4 ?"
123     ." :) "
124 );
125 }
126
127
128
129 function hexa_code_point_to_UTF8(
130     $s_code_point_in_hexadecimal_notation
131 ){
132     $s_code_point_in_hexadecimal_notation = strtoupper(
133         $s_code_point_in_hexadecimal_notation
134     );

```

```

135     $i_code_point_in_decimal_notation = 0;
136     $i_ord_0 = ord('0');
137     $i_ord_A = ord('A');
138     $i_digit_offset = -$i_ord_0;
139     $i_letter_offset = 10 - $i_ord_A;
140     for(
141         $i = 0, $i_max = strlen($s_code_point_in_hexadecimal_notation);
142         $i < $i_max;
143         ++$i
144     ){
145         $s_hexa_digit = $s_code_point_in_hexadecimal_notation[$i];
146         $i_code_point_in_decimal_notation *= 16;
147         if ctype_digit($s_hexa_digit){
148             $i_code_point_in_decimal_notation += (
149                 ord($s_hexa_digit) + $i_digit_offset
150             );
151             continue;
152         }
153         if ctype_xdigit($s_hexa_digit){
154             $i_code_point_in_decimal_notation += (
155                 ord($s_hexa_digit) + $i_letter_offset
156             );
157             continue;
158         }
159         throw new Exception("Not an hexadecimal digit.");
160     }
161     return decimal_code_point_to_UTF8(
162         $i_code_point_in_decimal_notation
163     );
164 }
165
166 /*
167 ?>
168 <?php
169 require_once("./unicode.php");
170 var_dump(hexa_code_point_to_UTF8("002B"));
171 var_dump(hexa_code_point_to_UTF8("00E6"));
172 var_dump(hexa_code_point_to_UTF8("1400"));
173 var_dump(hexa_code_point_to_UTF8("10111"));
174 // https://en.wikibooks.org/wiki/Unicode/Character_reference/2000-2FFF
175 // Some invisible unicode characters that are a problem:
176 // 2000-200F 2028-202F 205F 2060-206F
177 $arr = [
178     '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007',
179     '2008', '2009', '200A', '200B', '200C', '200D', '200E', '200F',
180     '2028', '2029', '202A', '202B', '202C', '202D', '202E', '202F',

```

```

181     '205F',
182     '2060', '2061', '2062', '2063', '2064', '2065', '2066', '2067',
183     '2068', '2069', '206A', '206B', '206C', '206D', '206E', '206F',
184 ];
185 $arr_s = [];
186 $arr_s2 = [];
187 $arr_s3 = [];
188 foreach($arr as $s_hexa){
189     $s = hexa_code_point_to_UTF8($s_hexa);
190     $arr_s []= $s;
191     if(strlen($s) === 2){
192         $s2 = '\x'.bin2hex($s[0]).'\x'.bin2hex($s[1]);
193     }
194     if(strlen($s) === 3){
195         $s2 = '\x'.bin2hex($s[0]).'\x'.bin2hex($s[1])
196             .'\x'.bin2hex($s[2]);
197     }
198     $arr_s2 []= $s2;
199     $s3 = " | sed -e 's/\".$s2.\"/ /g'\\\"";
200     $arr_s3 []= $s3;
201     echo($s3."\\n");
202 }
203 //*/
204

```

## 2.50 upgrade\_build\_and\_checks.sh

```

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

```

20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24
25 cd build_and_checks_dependencies/
26 ./update_common_build_and_checks.sh
27 cd ..
28 ./build_and_checks.sh

```

## 2.51 wget\_sha512.sh

```

1 #!/usr/bin/env bash
2 # This file is part of DevOrSysAdminScripts library.
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16 # See the GNU Lesser General Public License for more details.
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18 # You should have received a copy of
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20 # along with DevOrSysAdminScripts.
21 # If not, see <https://www.gnu.org/licenses/>.
22 #
23 # ©Copyright 2023–2024 Laurent Frédéric Bernard François Lyaudet
24
25 wget_sha512() {
26     # $1 file_name
27     # $2 download_URL
28     # $3 correct_sha512
29     if [[ ! -f "$1" ]];
30     then
31         wget -O "$1" "$2"
32     fi
33     wget_sha512_var_present_sha512=$(sha512sum "$1" | cut -f1 -d' ')
34     if [[ "$wget_sha512_var_present_sha512" != "$3" ]];

```



```
35     then
36         echo "$1 does not have correct sha512"
37         echo "wanted $3"
38         echo "found $wget_sha512_var_present_sha512"
39         exit
40     fi
41 }
```

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