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renzok / **bash-template**

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A template bash script based on google style guide with some little improvements

bash-template

```
1  #!/bin/bash
2
3  # Here short description of this script
4  # This is just a template to be used for writing new bash scripts
5
6  ###
7  # Based on Google Style Guide: https://google.github.io/styleguide/shell.xml
8  # General remarks
9  # * Executables should have no extension (strongly preferred) or a .sh extension.
10 # * Libraries must have a .sh extension and should not be executable
11 # * SUID and SGID are forbidden on shell scripts.
12 # * All error messages should go to STDERR.
13 # * Write todos like this: # TODO(renzok): Handle the unlikely edge cases (bug ####)
14 # * Indent 2 spaces. No tabs. 80 chars max per line
15 # * Put ; do and ; then on the same line as the while, for or if.
16 # * Quoting: https://google.github.io/styleguide/shell.xml#Quoting
17 # * Function Names: Lower-case, with underscores to separate words.
18 # ** Separate libraries with ::. Parentheses are required after the function name.
19 # * prefer shell builtin over separate process
20 ##
21
22
23 ##
24 # Coding tips and tricks:
25 # http://stackoverflow.com/questions/1167746/how-to-assign-a-heredoc-value-to-a-variabl
26 #
27
28 # Exit immediately if a command exits with a non-zero status.
29 #
30 # This might cause problems e.g. using read to read a heredoc cause
```

```
31 # read to always return non-zero set -o errexit Treat unset variables
32 # as an error when substituting.
33 set -o nounset
34
35 # 1. section: global constants (all words upper case separated by underscore)
36 # declare -r CONSTANT_VARIABLE='value'
37 declare -r TMP_FILE_PREFIX=${TMPDIR:-/tmp}/prog.$$
38
39 # as per discussion
40 # http://stackoverflow.com/questions/4774054/reliable-way-for-a-bash-script-to-get-the-
41 # but use BASH_SOURCE[0]
42 declare -r SCRIPTPATH=$( cd $(dirname ${BASH_SOURCE[0]}) > /dev/null; pwd -P )
43
44
45 # 2. section: functions
46 # Part of a package/library
47 function mypackage::my_func() {
48
49 }
50
51 # all progs need to be given as parameters
52 # e.g. _check_required_programs md5 xsltproc
53 function _check_required_programs() {
54
55     # Required program(s)
56     #req_progs=(readlink date md5)
57     for p in ${@}; do
58         hash "${p}" 2>&- || \
59             { echo >&2 " Required program \"${p}\" not installed or in search PATH.";
60               exit 1;
61             }
62     done
63
64 }
65 function cleanup() {
66     rm -f ${TMP_FILE_PREFIX}.*
67
68     echo "always implement this" && exit 100
69 }
70
71
72 function usage() {
73     cat <<EOF
74
75 Usage: $0
76
77 TODO
78 EOF
```

```
79 }
80
81
82 # Single function
83 function main() {
84
85     # the optional parameters string starting with ':' for silent errors snd h for help u
86     local -r OPTS=':h'
87
88     while builtin getopts ${OPTS} opt "${@}"; do
89
90         case $opt in
91             h) usage ; exit 0
92                ;;
93
94             \?)
95                 echo ${opt} ${OPTIND} 'is an invalid option' >&2;
96                 usage;
97                 exit ${INVALID_OPTION}
98                 ;;
99
100             :)
101                 echo 'required argument not found for option -'${OPTARG} >&2;
102                 usage;
103                 exit ${INVALID_OPTION}
104                 ;;
105             *) echo "Too many options. Can not happen actually :)"
106                ;;
107
108         esac
109     done
110
111
112     cleanup
113
114     exit 0
115 }
116
117
118 # Always check return values and give informative return values.
119 # see https://google.github.io/styleguide/shell.xml#Checking\_Return\_Values
120
121 # set a trap for (calling) cleanup all stuff before process
122 # termination by SIGHUBs
123 trap "cleanup; exit 1" 1 2 3 13 15
124 # this is the main executable function at end of script
125 main "$@"
126
```

127

128

estahn commented on Jun 29, 2018 • edited ▼

```
bin/generate.sh
bin/generate.sh: line 49: syntax error near unexpected token `}'
bin/generate.sh: line 49: `}'
```

If something is added to the function on line 49:

```
bin/generate.sh: line 88: @: unbound variable
```