zplug's tags

Tag	Description	Value (default)	Example
as	Specify whether to register as commands or to register as plugins	plugin,command(plugin)	as:command
of	Specify the pattern to source files (for plugin) or specify relative path to add to the \$PATH (for command) / In case of from:gh-r, can specify of: "*darwin*{amd,386}*" and so on	glob (of:"*.zsh")	of:bin,of:"*.sh",of:*darwin*
from	Specify the services you use to install	github,bitbucket, gh-r,gist, oh-my- zsh,local(github)	from:gh-r
at	Support branch/tag installation	branch/tag(master)	at:v1.5.6
file	Specify filename you want to rename (only as:plugin)	filename (-)	file:fzf
dir	Installation directory which is managed by zplug	READ ONLY	dir:/path/to/user/repo
if	Specify the conditions under which to run source or add to \$PATH	boolean (-)	if:"[ -d ~/.zsh ]"
do	Run commands after installation/update	commands (-)	do:make install
frozen	Do not update unless explicitly specified	0,1 (0)	frozen:1
commit	Support commit installation (regardless of whether the\$ZPLUG_SHALLOW is true or not)	revision (-)	commit:4428d48
on	Dependencies	READ ONLY	on:user/repo
nice	Priority of loading the plugins. If this tag is specified 10 or more, zplug will load plugins after compinit (see also#26)	-2019 (0)	nice:19
ignore	Similar to of tag, specify exception pattern so as not to load the files you want to ignore (see also #56)	glob (-)	ignore:"some_*.zsh"

## zplug configurations

## **ZPLUG HOME**

Defaults to  $\sim$ /.zplug. zplug will store/load plugins in this directory. The directory structure is below. \$ZPLUG\_HOME

If you specify as:command in zplug command, zplug will recognize the plugin as a command and create a symbolic link of the same name (if you want to rename it, set file: tag) within \$zplug\_HOME/bin. Because zplug adds \$zplug\_HOME/bin to the \$path, you can run that command from any directories.

ZPLUG\_THREADS

The number of threads zplug should use. The default value is 16.

## ZPLUG\_PROTOCOL

Defaults to HTTPS. Valid options for \$ZPLUG\_PROTOCOL are HTTPS or SSH. Unless you have a specific reason, you should use the HTTPS protocol.

For more information, see also Which remote URL should I use? - GitHub Help

## ZPLUG SHALLOW

Defaults to true. When cloning a Git repository, there is an option to limit the amount of history your clone will have. If you set this environment variable to true, you get the least amount of history, and you create a shallow clone.

ZPLUG\_FILTER

Defaults to fzf-tmux:fzf:peco:percol:zaw. When --select option is specified, colon-separated first element that exists in the \$PATH will be used by zplug as the interactive filter. The ZPLUG\_FILTER also accepts the following values: fzf-tmux -d "10%":/path/to/peco:my peco.
ZPLUG\_EXTERNAL

Defaults to \$zplug\_Home/init.zsh. This file is used to add plugins from zplug on the command-line. zplug\_use\_cache

Defaults to true. If this variable is set, zplug comes to use a cache to speed up when it will load plugins after the first. The cache file is located in \$zplug\_HOME/.cache. If you want to clear the cache, please run zplug\_clear or do the following:

\$ ZPLUG\_USE\_CACHE=false zplug load

```
# Filename: $dotDir/bin/nmdf
                                 (a bootstraper to install dotfiles.)
# Maintainer: march <titepweb@gmail.com>
         URL: https://github.com/titepweb/nmdf
REPO_URI=https://github.com/titepweb/nmdf
REPO BRANCH=master
APP_URL=https://raw.githubusercontent.com/titepweb/nmdf/master/bin/nmdf
# @todo: use variable instead of value
app_name=nmdf
_symlink=.symlink
_copy=.copy
function help {
cat << EOF
                          THE WORKFLOW OF USING nmdf
  (1) Update/Clone dotfiles : $(basename $0) -u [-r repository] [-d path to dir]
    If run from remote location, nmdf automatically clone the REPO_URI
    [$REPO URI]
    to the working directory or the specified directory that user give through
    the option -d {path to dir}. -d would be useful to manage multiple dotfiles.
  (2) Install dotfiles
                              : $(basename $0) command [options]
       command:
        -1 : Symlink both *.copy and *.symlink files
        -c : Copy both *.copy and *.symlink files-i : Install : Copy *.copy files and symlink *.symlink files accordinly.
Skip copying if destination file exists.
        -if : Reinstall forcefully : Install dotfiles, do not skip copying.
      * options :
        -o : Create symlinks without overwrite confirmation.
            : Create symlinks without backup confirmation.
        -a : Ask user for copying each file or creating each symlink.
  (3) Show statistic data about dotfiles : $(basename $0) -s
  (4) Push dotfiles to VSC : $(basename $0) [-r repo] -p ["commitMessage"]
      If the commitMessage is not specified or too short, an auto-message will
      be generated.
  (*) Tips: $(basename $0) -uiba
                       The CORE CHARACTERISTICS of nmdf

    flexibility: cross-platform (not tested yet)

  2. modularity: topic-central organization
  3. centralization

    support copy and symlink option. Why? First and foremost, certain dotfiles
could contains sensitive information, as in muttre (email password), ssh

     keys, ..., so it need to copied and manually configured; a prompt is nice.
     Secondly, some softwares, like newsbeuter, does not accept configuration
     symlink files. Thirdly, we need one-way changes from our dotDir to local
     configuration files for some programs; therefore, we will not be out of controlled. Futhermore, we could nmdf -l to use linking instead of copying
     and nmdf -c à la the well-known Stow tool.
  5. smart storing : Unlike the alternative scripts which store .dotfiles and
     their ~/.data in dorDir with .symlink, nmdf only stores what really matter. When installing, nmdf deeply scan for *.symlink and *.copy files and directories in every topic. Therefore, nmdf keep dotDir lightweight due to linking and copying only essential files instead of the whole directories
```

which may contain overweight temp files, for instance, ~/.config/chromium.

```
For example, do not use ~/.config/sublime-text-3.symlink. We just need to
     symlink 2 files, then install PackageControl, and let it take over the rest.
      + ~/.config/sublime-text-3/Packages/User/Package Control.sublime-settings
     + ~/.config/sublime-text-3/Packages/User/Package Control.sublime-settings
     Another example: For vim, we just need to symlink \sim/.vimrc, install vundle, run :PlugInstall in vim or 'vim +PluginInstall +qall' from command line to
     install/update vim plugins.
     NOTE: 'git submodule' is briliant to manage pluggins of other programs!
  6. including pull for updates from and push changes to the REPO_URI.
  7. automatically decide git clone/pull based on whether nmdf is run remotely.
        The ORAGNIZATION MODEL of DOTFILES UNDER the MANAGEMENT of nmdf
 dotfiles
                            # topic-centric organization dotfiles
  - bin (required)
                            # added to your \$PATH and be made available everywhere
      - nmdf
                            # nmdf should be here for easily often running.
    _ xxx
                             # xxx is used to test new learned bash codes.
   - temp (optional)
                            # --> add this folder into .gitignore
  - nmdf.log
                             # --> add this folder into .gitignore
    example
     - nmExplample.md #
- related files ... #
                             # --> a decent place to type your discovering process...
      - .exclude-platforms # nmdf #1: specifies excluded platforms for this topic
    example.symlink  # nmdf #2a: symlinked to ~/.example if ...
example.copy  # nmdf #2b: copied to ~/.example if ...

install.sh  # nmdf #3: performs additional installation after symlinking

zprofile.zsh  # zsh #1: run for login shells

path.zsh  # zsh #2: modifies \$PATH

something.zsh  # zsh #3: additional setup

postinit.zsh  # zsh #4: run after additional setup

completion.zsh  # zsh #5: zsh completion setup
    git
       bin
                             # contains git scripts
        ☐ git-specific-script
      - gitconfig.symlink # symlinked to ~/.gitconfig
     path.zsh
        . . .
-----
         ******************
                                   WARNING:
              Make sure that your sensitive data (SSH keys, ...)
                         are not included in dotfiles.
EOF
exit 0
function updateRepo {
    # Check if git is installed before doing git operations
  echo >&2 "Git is required to clone/pull/push dot files from/to a remote repository. "\
     "Symlinks can still be auto created to files in $dotDir but a remote repository will not be used.";
    echo "*******************************
    return;
 # if @1="pull" but there is no repo here create one, otherwise update it afterwards.
if [ "$1" == "pull" -a ! -d "$dotDir/.git" ]; then
displayTitle "DOWNLOADING MASTER REPOSITORY"
  [ -e "#dotDir"] && fail "${red}${bold}$dotDir is a regular file or a not empty directory. 'git clone' only work on empty
directory.${reset}
    git clone -b "$REPO BRANCH" "$REPO URI" "$dotDir"
    success "${green}${bold}Cloning $app_name completed!${reset}"
    return
  fi
  # If dotDir does not exist, return.
[ ! -d "$dotDir" ] && fail "${red}${bold}The dotDir $dotDir does not exist. \nUpdating Repository fails!${reset}"
  # Git Pull or Push
if [ "$1" == "pull" ]; then
```

}

```
displayTitle "Pulling changes from the points = points 
       success "${green}${bold}\nPulling changes from the $app_name completed!${reset}"
    elif [ "$1" == "push" ]; then
       displayTitle "Pushing changes to the $app_name's repository, branch $REPO_BRANCH"

cd $dotDir && git add . && git commit -m "$commitMessage" && git push origin "$REPO_BRANCH"
        echo -e "${green}${bold}\nPushing changes from the $app_name repository completed!${reset}"
   fi
}
### COLOR DEFENITION ### reference: https://en.wikipedia.org/wiki/ANSI_escape_code
# Note: \033 = \e 30+i to specify foreground color, 40+i to specify background color,
reset='\e[0m'
                                        faint='\e[2m'
                                                                                    italic='\e[3m'
bold='\e[1m'
                                                                                                                                   underline='\e[4m'
blink='\e[5m'
strike='\e[9m'
                                        blinkfast='\e[6m'
                                                                           ; negative='\e[7m'
                                                                                                                                   conceal='\e[8m'
normal='\e[22m' ; roman='\e[23m'
positive='\e[27m' ; reveal='\e[28m'
                                                                                    nounderline='\e[24m'; noblink='\e[25m'
                                                                                    nostrike='\e[29m'
                                                                                                                                  yellow='\e[33m'
white='\e[37m'
black='\e[30m'
                                       red='\e[31m'
                                                                                    green='\e[32m'
                                        magenta='\e[35m'
default='\e[39m'
blue='\e[34m'
                                                                                    cyan='\e[36m'
xterm='\e[38'
bgblack='\e[40m' ;
                                                                                                                                   bgyellow='\e[43m'
                                       bgred='\e[41m'
                                                                                    bggreen='\e[42m'
bgblue='\e[44m'
                                        bgmagenta='\e[45m'
                                                                                    bgcyan='\e[46m'
                                                                                                                                  bgwhite='\e[47m'
                                ; bgmagenta='\e[45m'
; bgdefault='\e[49m'
bgxterm='\e[48'
# USAGE : printf , echo -e "just a ${underline}${red}${bold}underline red${reset}, ${negative}NEGATIVE${reset}, and ${strike}bold${reset} text."
# Fail on errors.
set -e
#set -x
# COLORFULLY INFORM ★ X-•...>✓
# NOTE: echo -e is preffered because of avoiding using \n at the end of the command
scan () {
   echo -e "\r [${bold}${magenta} SCAN ${reset}] ${magenta}$1${reset}"
info () {
   echo -e "\r [${bold}${cyan} INFO ${reset}] $1"
user () {
   echo -e "\r [ ${bold}${yellow} ?? ${reset} ] $1"
success () {
    printf "\r [ ${bold}${green} OK ${reset} ] $1\n"
fail () {
  printf "\r [${bold}${red} FAIL ${reset}] $1\n"
   exit 1
function displayTitle {
   #NOTE: [01;04;33 = bold + underline + xterm
   BoldUnderlinedRed='\n\e[01;04;38m%s\e[0m\n'
   printf $BoldUnderlinedRed "$1"
displayTitle "STATISTIC DATA"
   echo -e "-dotfiles in
                                                    :${blue}${bold} $dotDir${reset}"
    if [ -e "$dotDirIns" ]; then
       local insState="$(readsymlink "$dotDirIns")"
if [ "$insState" == "$dotDir" ]; then
           echo -e "-installed in :${blue}${bold} $dotDirIns${reset}"
       fi
    fi
   if [ ! -e "$dotDirIns" ] || [ -z "$insState" ]; then
  echo -e "-dotDir symlink :${red}${bold} not installed${reset}"
   echo -e "-total files
                                                   :${yellow}${bold} $(find $dotDir -type f | wc -1)${reset} \t files"
   echo -e "-total directory :${yellow}${bold} $(find $dotDir -type d | wc -l)${reset} \t directories"
    echo -e "-usage
                                                   :${red}${bold} $(du -sh)${reset}"
   echo -e "-dotfiles
                                                    :${cyan}${bold} $(find $dotDir -type f \
       -not -path "*/.git/*" \
-not -path "*/.hg/*" \
```

```
-not -path "$tempDir/*" \
-not -path "$backupDir/*" \
    | wc -1)${reset} \t files"
  echo -e "-dotdirectories :${cyan}${bold} $(find $dotDir -type d \
    -not -path "*/.git/*" \
-not -path "*/.hg/*" \
    -not -path "$tempDir/*" \
-not -path "$backupDir/*" \
 | wc -1)${reset} \t directories"
  git add . && git status
  exit 0
detectplatform () {
 if [ -n "$platform_cache" ]; then
    printf "$platform_cache"
    return
  if [ "$(uname)" == "Darwin" ]; then
           'mac
  elif [ "$(uname -s)" == "Linux" ]; then
    printf 'linux'
  elif [ "$(uname -s)" == "FreeBSD" ]; then
   printf 'freebsd'
 elif [ "$(uname -o)" == "Cygwin" ]; then
printf "cygwin\nwindows"
elif [ "$(uname -o)" == "Msys" ]; then
   printf 'msys'
  else
   printf 'unknown'
  fi
# Cache value to avoid repeating command "uname"
export platform_cache="$(detectplatform)"
readsymlink () {
 local file=$1
  if [ "$(detectplatform)" == 'freebsd' ]; then
    printf "$(realpath "$file")"
    return $?
  printf "$(readlink --canonicalize-existing "$file")"
detecthome () {
 local platform=$1
  case "$platform" in
    mac|linux|msys|cygwin|freebsd )
      home=$HOME
    windows )
      home="$(printf "%s" "$(cygpath --unix $USERPROFILE)")"
      fail "Cannot determine home directories for platform ${red}$platform${reset}"
 esac
platform_excluded () {
  local topic=$1
  local platform=$2
  local exclude_file="$topic/.exclude-platforms"
 if [ ! -f "$exclude_file" ]; then
   return 1
  if [ -n "$(/usr/bin/grep "$platform" "$exclude_file")" ]; then
    return 0
  return 1
```

```
MkParentFolder() {
     local inDir="$(dirname "$1")"
    # Remove $inDir if it is a broken symbolic file
if [[ -h "$inDir" ]]; then
  [[ -z "$(readsymlink "$inDir" )" ]] && rm "$inDir"
     # ask for remove $inDir if it is a regular file
elif [[ -f "$inDir" ]]; then
  info "File already exists: ${cyan}$inDir${reset}"
          user "Delete it? [${green}${bold}y${reset}/${red}${bold}n${reset}"]
         read -n 1 action < /dev/tty</pre>
          # if not yes, then skip it
          if [[ $action =~ ^[Yy]$ ]]; then
              rm "$inDir"
               success "Removed${red} ${strike}$inDir${reset}"
         else
              fail "Take a look at ${red}$inDir${reset}"
         fi
     fi
     # Create $inDir if it does not exist
    if [ ! -d "$inDir" ]; then
  mkdir -p "$inDir" #
                                                                 # mkdir can make two parent & son directories just with mkdir /parent_folder/son_folder
          success "Created $inDir"
SymlinkOrCopy () {
     local src=$1
     local dst=$2
     local ext="${src##*.}"
     local overwrite= ; local backup= ; local skip=
# Choose the right word to ask ------
if ([ "$src" == "$dotDir" ] ) || ([ "$installOption" == "install" ] && [ "$ext" = "symlink" ] ) || ([ "$installOption" == "symlink" ] ); then
              local askword1="linked to"
     local askword2="Create symlink"
elif ([ "$installOption" == "install" ] && [ "$ext" == "copy" ] ) || ( [ "$installOption" == "copy" ] ); then
              local askword1="overwrited by"
               local askword2="Copy"
    # Ask user if destination file exists -----
if [ -f "$dst" -o -d "$dst" -o -L "$dst" ]; then
  if [ "$overwrite_all" == "false" ] && [ "$backup_all" == "false" ] && [ "$skip_all" == "false" ]; then
  local current_src="$(readsymlink "$dst")"
              if [ "$installOption" == "install" ] && [ "$ext" == "copy" ] && [ "$forcefullyOption" != "true" ]; then
                   skip=true;
               elif [ "$current_src" == "$src" ]; then
                   skip=true;
               else
                   user "File already exists: {green} dst{reset} \n\ (\c cyan)$(file --brief "$dst")$(reset)
                          Will be $askword1 ${green}$src${reset}
                           ${bold}${yellow}s${reset}kip, ${bold}${yellow}S${reset}kip all, ${bold}${yellow}o${reset}verwrite,
$\{bold\}\{yellow\}0\\\{reset\}\ all, \\\{bold\}\{yellow\}b\\\{reset\}\ ackup, 
                   while true; do
                        # Read from tty, needed because we read in outer loop.
                        read -n 1 action < /dev/tty</pre>
                        case "$action" in
                             o ) overwrite=true
                                                                                    ; break ;;
                             0 ) overwrite_all=true ; break ;;
                            b ) backup=true
                                                                                 ; break ;;
                            B ) backup_all=true
                                                                                    ; break ;;
                            s ) skip=true
S ) skip_all=true
                                                                                    ; break ;;
                                                                                   ; break ;;
                             * ) ;;
                        esac
                   done
          overwrite=${overwrite:-$overwrite_all}
          backup=${backup:-$backup_all}
          skip=${skip:-$skip_all}
```

```
if [ ! "$skip" == true ] && [ ! "$dst" == "$dotDir" ]; then
  if [ "$overwrite" == "true" ]; then
                         rm -rf "$dst"
                         success "Removed ${green}$dst${reset}"
                  if [ "$backup" == "true" ]; then
    # Back $dst up without loosing directory structure
    local relativeFile=${dst#$home} #remove $home from $file
    # Remove the leading slash if there is one
    if [[ $relativeFile == /* ]]; then
                              relativeFile=${relativeFile:1}
                         local bakfile="$backupDir/$relativeFile.BAK.$(date +"%Y-%m-%d_%H-%M")"
                         # Make sure that the destination directory exists before backing up.
MkParentFolder "$bakfile"
                         # Backup
                         mv "$dst" "$bakfile"
                         success f(green)^{-}(reset)^{0} \ {green}$dst${reset} \n \t ${green}^{-} \-%{reset} ${green}$bakfile${reset}"
                   fi
            fi
      fi
      # Skip , Symlink , or Copy ----
if [ "$skip" == "true" ]; then
            \label{localization} $$ success $$ \S^{green}$src${reset} \ \ $$ x ${reset}^L${green}$dst${reset}^T$ $$
      if [ "$skip" != "true" ]; then # "false" or empty
            # Make sure that the destination directory exists before creating symlinks or copying MkParentFolder "$dst"
            # Ask users before creating symlinks or copying

if [ "$askOption" == "true" -a "$overwrite" != "true" -a "$backup" != "true" ]; then

user "$askword2 $(dirname "$dst")/${yellow}$(basename "$dst")${reset}? [${green}${bold}y${reset}/${red}${bold}n${reset}/install
${green}${bold}a${reset}11]
                   read -n 1 action < /dev/tty</pre>
                    # if not yes, then skip it
                   if [[ $action =~ [Aa] ]]; then
                         askOption=false
                   elif [[ ! $action =~ [Yy] ]]; then
                         return
                  fi
             fi
 # Create symlink or copy
if ( [ "$src" == "$dotDir" ] ) || ( [ "$installOption" == "install" ] && [ "$ext" = "symlink" ] ) || ( [ "$installOption" ==
"symlink" ] ); then
                  # Create native symlinks on Windows.
                   export CYGWIN=winsymlinks:nativestrict
                  # Symlink command
ln -s "$src" "$dst"
                   symlinkindex=$(($symlinkindex+1))
                   success f\{green\}_{\text{linked}}\{reset}${green}$src${reset} \n \t ${green}_{\text{linked}}
             \begin{tabular}{ll} elif ( [ "$installOption" == "install" ] \&\& [ "$ext" == "copy" ] ) || ( [ "$installOption" == "copy" ] ); then it is the context of t
                  # Copy command (-r stands for recursively copy ) cp -r "\src" "\dst"
                  copyindex=$(($copyindex+1))
                   \label{lem:success} $$ green_{Copied=\$\{reset\}} $$ \n \t $\{green\}^{\bot} \checkmark =\start $$ (green)^{\pm} $$ \n \t $$ (green)^{\bot} $$ \n \t $$ (green)^{\pm} $$ \n \t $\n \t $$ \n \t $$ \n \t $\n \t $$ \n \t $\n \
             fi
     fi
}
 function RemoveTailing () {
      for i in `seq 1 10`; #10 here is customizable
            do
                  for file in $( \
  find "$1" \
                               -mindepth $i -maxdepth $i \
-not -path "*/*.ignore/*" \
-not -path "*/80%/*" \
                               -not -path "$tempDir/*" \
-name '*.symlink' -or -name '*.copy' \
                            ); do
                         if [[ file = .*\.(symlink|copy)/.*\.(symlink|copy) ]]; then
                               # remove the tailing .symlink or .copy
local renameto="${file%.*}"
```

```
local ext="${file##*.}"
mv "$file" "$renameto"
           fixnameindex=$(($fixnameindex+1))
           # highlight .symlink in the string $file by replacing matched '.symlink'
           renameto=${renameto/.symlink/${red}.symlink${reset}}
          renameto=${renameto/.copy/${red}.copy${reset}}
          echo -e " $renameto${strike}${red}.$ext${reset}"
        fi
      done
    done
}
install_dotfiles () {
  displayTitle "INSTALLING DOTFILES"
  info "Installing dotfiles from ${cyan}$dotDir${reset}\n"
  local scanindex=0;
  local fixnameindex=0:
  local symlinkindex=0;
  local copyindex=0;
  # local platforms="$(detectplatform)"
  # while IFS=$'\n' read -r platform; do
      local home
      detecthome "$platform"
    info "Installing dotfiles in ${cyan}$home${reset} for platform ${cyan}$platform${reset}"
    # First, add a symlink for this dotfiles directory.
# if [[ ! "$dotDir" == "$dotDirIns" ]]; then
SymlinkOrCopy "$dotDir" "$dotDirIns"
    # Find direct child directories (topics), exclude those starting with dots.
local topics="$(/usr/bin/find "$dotDir" -mindepth 1 -maxdepth 1 -type d -not -name '\.*' -not -path '*/*.ignore/*' )"
    while IFS=$'\n' read -r topic; do
  [[ -z "$topic" ]] && continue
      scan "-Topic- $topic"
      if platform_excluded "$topic" "$platform"; then
        info "Skipped ${green}$topic${reset} as it is excluded for platform ${cyan}$platform${reset}"
        continue
      # Remove the taling .symlink in the names of all the sub-directories of another *.symlink directory
      RemoveTailing "$topic"
      # Find files and directories named *.symlink below each topic directory, exclude files in 80% directories.
      # local symlinks="$(/usr/bin/find "$topic" -mindepth 1 -maxdepth 1 \( -type f -or -type d \) -name '*.symlink')"
      local symlinks="$(/usr/bin/find "$topic" -mindepth 1 \
        -not -path "*/*.ignore/*" \
-not -path "*/80%/*" \
        -not -path "$tempDir/*" \
         -and \
        \( \
               -type f \
-name '*.symlink' -or -name '*.copy' \
          ١(
          \) -or \( \
                -type d \
                -name '*.symlink' -or -name '*.copy' \
          \) \
        \) \
)"
      while IFS=$'\n' read -r src; do
        [[ -z "$src" ]] && continue
        # remove the leading $topic from the destination directory name
        local dst="$home/${src#$topic/}"
        \# remove the leading .symlink or .copy from the destination directory name
        dst=${dst%.symlink}
        dst=${dst%.copy}
        SymlinkOrCopy "$src" "$dst"
        scanindex=$(($scanindex+1))
      done <<< "$symlinks"</pre>
```

```
# Run optional install script.
                # 1. remember to set execute permissions chmod +x <script> for the .install.sh scripts. Otherwise, nmdf skip running it.
                # 2. make sure that the script doesn't stop nmdf to continue scanning topic and installing dotfiles
                local install="$topic/.install.sh"
                if [ -x "$install" ]; then
                   info "Running ${green}$install${reset}"
                     sh -c "$install"
               fi
          done <<< "$topics"</pre>
     # done <<< "$platforms"</pre>
     info \footnote{\color{1}{loop}} (cyan)\footnote{\color{1}{loop}} (cyan)\footnote{\color{1}{loop}}
     info \frac{1}{2} info 
 ${strike}${red}.copy${reset}'!"
                     "${cyan}${bold}$symlinkindex${reset} dotfile(s) are symlinked!"
     info
     info "${cyan}${bold}$copyindex${reset} dotfile(s) are copied!"
                  "$(cyan)${bold}$(($symlinkindex + $copyindex))${reset} dotfile(s) are installed, totally!"
     info
# STEP 1 # Parse option arguments or ask for them if not been specified
     function askParameters {
  displayTitle "WHAT WOULD YOU LIKE TO LAUNCH ?"
          PS3="Select above option regarding how to create the symlinks:" options=("Update/Clone from $REPO_URI"
            "Install dotfiles"
           "Rinnstall dotfiles"
            "Install dotfiles. Ask before creating each symlink"
           "Reinstall dotfiles. Ask before creating each symlink"
"Show statistic data"
           "Push changes to $REPO_URI"
           select opt in "${options[@]}"
                case $opt in
                                                                                                                                                                     pullOption=true ; break ;;
                     "Update/Clone from $REPO_URI")
                                                                                                                                                                    installOption="install" ; break ;;
installOption="install" ; forcefullyOption=true ; break ;;
                     "Install dotfiles")
                      "Reinstall dotfiles")
                     "Install dotfiles. Ask before creating each symlink") askOption=true; installOption="install"; break;;
"Reinstall dotfiles. Ask before creating each symlink") askOption=true; installOption="install"; forcefullyOption=true;
break ;;
"Show statistic data")
                                                                                                                                                                    showStats=true ; break ;;
                "Push changes to $REPO_URI")
*) fail "invalid option" ;;
                                                                                                                                                                    pushOption=true ; break ;;
                esac
          done
     # Default Ontions
     overwrite_all=false backup_all=false skip_all=false
     if [ $# == 0 ]; then
          askParameters
           [ "$1" == "--help" ] && help
           OPTIND=1 # Reset in case getopts has been used previously in the shell.
           #NOTE: Never use getopt (Traditional versions of getopt cannot handle empty argument strings, or arguments with embedded
whitespace.)
           while getopts :uclifaobsd:r:p: OPTION; do
               case $OPTION in
                    u) pullOption=true ;;
c) installOption="copy" ;;
                    1) installOption="symlink" ;;
i) installOption="install" ;;
                     f)
                           forcefullyOption=true ;;
                     a) askOption=true ;;
                              overwrite_all=true ;;
                     0)
                              backup_all=true ;;
                               showStats=true ;;
                     s)
                     d) dotDir=$OPTARG ;;
                     r) REPO_URI=$OPTARG ;;
                     p) pushOption=true
                               commitMessage=$OPTARG
                               [[ -z "$commitMessage" ]] || [[ ${#commitMessage} -lt 4 ]] && commitMessage="Auto commit dot files at $(date)"
                     :) #@FIXME: This option is not considered if p,d,r option is follow by another argument; for example, nmdf -dr , nmdf -pa. So,
nmdf -ap is desired instead of nmdf -pa
                               if [ "$OPTARG" == "p" -a -z "${commitMessage// }" ]; then
  commitMessage="Auto commit dot files at $(date)"
                                     echo "Automatic commit message :"$commitMessage
                                    echo "Option -$OPTARG requires an argument. Type nmdf -h for usage."
                                    exit 1
                                fi
```

```
h|\?) # if unrecognized option - show help
             help
             exit 1
       esac
    done
    shift $((OPTIND-1)) #This tells getopts to move on to the next argument.
# STEP 2 # Check Platform and Create global variables
  platform="$(detectplatform)"
  detecthome "$platform" # create the global variable home
  backupDir=$home/dotfiles-backup
                                          #--> This folder should not be in $dotDir because if we delete $dotDir, we also delete $backupDir
  # dotDir will be used to create symlink from $dotDir to $dotDir
  dotDirIns=$home/.dotfiles
                                          #--> Don't change this because bashrc, ... use the path ~/.dotfiles
  # If user didn't provide -d path/to/directory, ... if [ -z "dotDir" ]; then
    # a modified version from : http://stackoverflow.com/questions/59895/can-a-bash-script-tell-what-directory-its-stored-
in/246128#246128
    SOURCE="${BASH_SOURCE[0]}"
    while [ -h "$SOURCE" ]; do # resolve $SOURCE until the file is no longer a symlink
   DIR="$( cd -P "$( dirname "$SOURCE" )" && pwd )"
       SOURCE="$(readsymlink "$SOURCE")"
       [[ $SOURCE != /* ]] && SOURCE="$DIR/$SOURCE" # if $SOURCE was a relative symlink, we need to resolve it relative to the path
where the symlink file was located
    done
    dotDir= "$( cd -P "$( dirname "$SOURCE" )/.." && pwd )" #--> nmdf must be in $binDir, not in $dotDir
  fi
  # Trim the trailing slash from the dot directory if user mistyped.
  [[ $dotDir == */ ]] && dotDir="${dotDir%?}" # OR dotDir=${dotDir:1}
  # Set special directories and files based on defined dotDir.
  binDir=$dotDir/bin
                                           \#--> include in .bashrc or .bash_profile: export PATH=\$binDir:\$PATH
  tempDir=$dotDir/temp
                                           #--> include in .gitignore
  \mbox{\tt\#} currently, logfile is not used. Save these for the later version of nmdf
  logfile=$dotDir/nmdf.log
                                          #--> include in .gitignore
    # Delete log file if its size is bigger than 50 KiB
    if [ -f $logfile ]; then
      size=$(stat -c%s $logfile)
      [[ $size > 50000 ]] && rm $logfile
  # Check the global variagles before actions
  function Debug () {
  displayTitle "THE CORE PARAMETERS"
    echo "-pullOption =" $pullOption
echo "-installOption =" $installOption
    echo "-installOption =" $installOption
echo "-overwrite_all =" $overwrite_all
echo "-backup_all =" $backup_all
echo "-skip_all =" $skip_all
echo "-askOption =" $askOption
echo "-showStats =" $showStats
echo "-dotDir =" $dotDir
echo "-REPO_URI =" $REPO_URI
echo "-REPO_BRANCH =" $REPO_BRANCH
echo "-pushOption =" $pushOption
echo "-commitMessage =" $commitMessage
    echo "-----"
# STEP 3 # - Create a working copy of the dofiles repository.
           - Pull changes if dotfiles repository exists.
            - Evaluate the default parameters or what user typed (-d directory).
#
  if [ "$pullOption" == "true" ]; then
  updateRepo "pull"
  fi
  # sh -c "$(wget https://raw.githubusercontent.com/titepweb/nmdf/master/bin/nmdf -O -)"
  # bash <(wget -nv -0 -https://raw.githubusercontent.com/titepweb/nmdf/master/bin/nmdf)
  # if this script is running from a remote location and the dotfiles directory was empty, download and save nmdf to the bin directory,
however,

if [ ! -f "$binDir/nmdf" ] && [ ! hash nmdf >/dev/null 2>&1 ]; then

curl -fsSL -o "$binDir/nmdf" $APP_URL
```

```
# After pulling, dotDir must be created or filled with content. So, Quit if dotDir does not exist.
[ ! -d "$dotDir" ] && fail "Dotfile directory ${red}'$dotDir'${reset} does not exist. nmdf is terminated."
  # Verify that the backup directory exists
[ ! -d "$backupDir" ] && mkdir -v -p "$backupDir"
  # Create special directory parameters:
[ ! -d "$binDir" ] && mkdir -v -p "$binDir"
[ ! -d "$tempDir" ] && mkdir -v -p "$tempDir"
# STEP 4 # - Create ContextualSymlinkList which is used in SymlinkOrCopy functions.
            - Rename symlink sub-directories of another symlink directories.
            - Install dotfiles by creating symlinks. Backup existed dotfiles if necessary.
#-----
  if [ -n "$installOption" ]; then
    # for the first time, submodule need to be
displayTitle "INITIALIZING SUBMODULES"
cd "$dotDir" && git submodule update --init --recursive #--recrusive means update all submodules within
    info "Completed!
    # ContextualSymlinkList
    install_dotfiles
  if [ "$showStats" == "true" ]; then
   stats
# STEP 5 # Push changes to the nmdf repository, which is useful if nmdf renamed/created directories
  if [ "$pushOption" == "true" ]; then
    updateRepo "push"
# RemoveTailing function can be rewritten :
  for i in `seq 1 10`; #10 here is customizable
    do
      find "$1" -mindepth $i -maxdepth $i -name '*.symlink' -exec sh -c ' {
         count_rename=$(($count_rename+1))
           echo -e " [\e[31mrename\e[0m] ${0%.symlink}\e[9;31m.symlink\e[0m"
        fi
      }' {} \;
    done
           -not -path "$tempDir/*" \
  # Before I find out mkdir can make multi-level directories, I use this to test if a directory contains .symlink file(s) or not.
  # If a directory has a *.symlink file inside, I use the following codes to make sure that the destination directory exists before
creating the corresponding symlinks.
  if [ -d "$src" ]; then
local results=( $(find "$src" -name "*.symlink") )
    if (( ${#results[@]} )) ; then
if [[ -d "$dst" ]]; then
scan "Existed $dst"
      else
        mkdir -p "$dst"
success "Created $dst"
      fi
    else
      scan "Not found any *.symlink files in $src"
    fi
  fi
```