

scd - smart change of directory

Define `scd` shell function for changing to any directory with a few keystrokes.

`scd` keeps history of the visited directories, which serves as an index of the known paths. The directory index is updated after every `cd` command in the shell and can be also filled manually by running `scd -a`. To switch to some directory, `scd` needs few fragments of the desired path to match with the index. A selection menu is displayed in case of several matches, with a preference given to recently visited paths. `scd` can create permanent directory aliases, which appear as named directories in zsh session.

INSTALLATION NOTES

Besides `oh-my-zsh`, `scd` can be used with `bash`, `dash` or `tcsh` shells and is also available as Vim plugin `scd.vim` and IPython extension. For installation details, see <https://github.com/pavoljuhas/smart-change-directory>.

SYNOPSIS

```
scd [options] [pattern1 pattern2 ...]
```

PATTERNS

Patterns may use all zsh glob operators available with *extendedglob* option. Specified patterns must match the absolute path and at least one of them must match in the tail. Several special patterns are also recognized as follows:

`^PAT`

`PAT` must match at the beginning of the path, for example, “`^/home`”

`PAT < /dt > < dd > require PAT to match the end of the path, ”man“`

`./`

match only subdirectories of the current directory

`:PAT`

require `PAT` to match over the tail component, “`:doc`”, “`:re/doc`”

OPTIONS

`-a`, `-add`

add current or specified directories to the directory index.

`-unindex`

remove current or specified directories from the index.

-r, -recursive

apply options -add or -unindex recursively.

-alias=ALIAS

create alias for the current or specified directory and save it to ~/.scdalias.zsh.

-unalias

remove ALIAS definition for the current or specified directory from ~/.scdalias.zsh. Use "OLD" to purge aliases to non-existent directories.

-A, -all

display all directories even those excluded by patterns in ~/.scdignore. Disregard the unique matching for a directory alias and filtering of less likely paths.

-p, -push

use "pushd" to change to the target directory.

-list

show matching directories and exit.

-v, -verbose

display directory rank in the selection menu.

-h, -help

display this options summary and exit.

Examples

```
# Index recursively some paths for the very first run  
scd -ar ~/Documents/
```

```
# Change to a directory path matching "doc"  
scd doc
```

```
# Change to a path matching all of "a", "b" and "c"  
scd a b c
```

```
# Change to a directory path that ends with "ts"  
scd "ts$"
```

```
# Show selection menu and ranking of 20 most likely directories  
scd -v
```

```
# Alias current directory as "xray"  
scd --alias=xray
```

```
# Jump to a previously defined aliased directory  
scd xray
```

FILES

~/.scdhistory

time-stamped index of visited directories.

~/.scdalias.zsh

scd-generated definitions of directory aliases.

~/.scdignore

glob patterns for paths to be ignored in the scd search, for example, /mnt/backup/*. The patterns are specified one per line and are matched assuming the extendedglob zsh option. Lines starting with “#” are skipped as comments. The .scdignore patterns are not applied in the -all mode.

ENVIRONMENT

SCD_HISTFILE

path to the scd index file (by default ~/.scdhistory).

SCD_HISTSIZE

maximum number of entries in the index (5000). Index is trimmed when it exceeds SCD_HISTSIZE by more than 20%.

SCD_MENUSIZE

maximum number of items for directory selection menu (20).

SCD_MEANLIFE

mean lifetime in seconds for exponential decay of directory likelihood (86400).

SCD_THRESHOLD

threshold for cumulative directory likelihood. Directories with a lower likelihood compared to the best match are excluded (0.005).

SCD_SCRIPT

command script file where scd writes the final cd command. This variable must be defined when scd runs in its own process rather than as a shell function. It is up to the scd caller to use the output in SCD_SCRIPT.