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 <u>scd.vim</u> and <u>IPython</u> extension. For installation details, see https://github.com/pavoljuhas/smart-change-directory.

SYNOPSIS

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

PATTERNS

Patterns may use all zsh <u>glob operators</u> 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$
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 .