# zoxide Smarter cd

**START HERE**

**z** *<dir>*
Jump to best match

**z ..**
Up one level

**z** *<a>* *<b>*
Match several words

**zoxide query -l**
List ranked dirs

**zi** *<dir>*
Pick from a list

**zoxide remove** *<path>*
Forget a directory

**z -**
Previous directory

**eval "$(zoxide init bash)"**
Enable in bash

**cd** you change directory → **hook adds** → **Database** paths with scores → **keywords match** → **Ranking** frequency + recency → **best or pick** → **z / zi** jump there

## CONCEPTS

zoxide learns the directories you cd into and ranks them by frequency and recency. Visit a directory once, then jump back with a few letters.

Only directories you have already visited are known. z does nothing useful for a path zoxide has never seen.

## SETUP

**eval "$(zoxide init bash)"**
Enable in ~/.bashrc

**eval "$(zoxide init zsh)"**
Enable in ~/.zshrc, after compinit

**zoxide init fish | source**
Enable in config.fish

**zoxide init posix --hook prompt**
Generic POSIX shell setup

**zoxide init** *<shell>* **--cmd** *<name>*
Rename z and zi, e.g. j and ji

**zoxide init** *<shell>* **--cmd cd**
Replace cd itself

**zoxide init** *<shell>* **--no-cmd**
Define no z or zi
*The functions stay available as __zoxide_z and __zoxide_zi, so you can bind them yourself.*

**zoxide init** *<shell>* **--hook** *<hook>*
When to count a visit: none, prompt, pwd
*pwd (default) counts when the directory changes; prompt counts at every prompt; none never counts.*

Put the init line at the end of the shell config so other prompt hooks do not override it.

## JUMPING

**z** *<keyword>*
Jump to the best matching directory

**z** *<kw1>* *<kw2>*
Match directories containing all words
*Words must appear in the path in this order; the last one must match the final path component.*

**z** *<kw>* **/**
Jump to a subdirectory starting with kw

**z** *<path>*
Plain cd for an existing path

**z -**
Back to the previous directory

**z ..**
Up one directory

**zi** *<keyword>*
Choose among matches with fzf

**z** *<keyword>* *<Space><Tab>*
Show interactive completions
*Works in bash 4.4+, fish and zsh; needs fzf.*

Matching is case-insensitive and keywords can sit anywhere in the path, so z proj api often reaches ~/work/projects/api.

## QUERY

**zoxide query** *<keyword>*
Print the best match without jumping

**zoxide query -l**
List all directories, best first

**zoxide query -l** *<keyword>*
List every match for a keyword

**zoxide query -ls**
List with scores

**zoxide query -i** *<keyword>*
Pick interactively with fzf

**zoxide query --exclude** *<path>* *<kw>*
Leave one path out of the results

## QUERY (cont.)

**zoxide query --all** *<keyword>*
Include directories that no longer exist

## DATABASE

**zoxide add** *<path>*
Add or bump a directory by hand

**zoxide remove** *<path>*
Delete a directory from the database

**zoxide import --from z** *<file>*
Import a z, fasd, z.lua or zsh-z database

**zoxide import --from autojump** *<file>*
Import autojump paths (no scores)

**zoxide import --from z --merge** *<file>*
Merge into a non-empty database
*Without --merge the import fails if the database already has entries.*

**zoxide --version**
Show the installed version

Stale or wrong entries rank high? Remove them with zoxide remove. Deleted directories fall out of results on their own.

## ENVIRONMENT VARIABLES

**_ZO_DATA_DIR**
Where the database lives

**_ZO_ECHO=1**
Print the target before jumping

**_ZO_EXCLUDE_DIRS**
Globs never to record, : separated
*Default is $HOME, so your home directory itself is never added.*

**_ZO_FZF_OPTS**
Extra options for fzf in zi

## ENVIRONMENT VARIABLES (cont.)

**_ZO_MAXAGE**
Entry cap that triggers aging, default 10000

**_ZO_RESOLVE_SYMLINKS=1**
Store real paths instead of symlinks

Export these before the zoxide init line, because they are read at startup.

## WITH OTHER TOOLS

**zi**
Interactive jump, needs fzf 0.51+

**export _ZO_FZF_OPTS="--height 40% --reverse"**
Compact fzf popup for zi

**cd "$(zoxide query** *<kw>***)"**
Use the result in any script

**ls $(zoxide query** *<kw>***)**
Inspect a directory without leaving

**zoxide query -l | fzf**
Browse all known directories

## RECIPES

**Use j and ji instead of z and zi**

```
# in ~/.bashrc
eval "$(zoxide init bash --cmd j)"
j proj
ji proj
```

**Make zoxide the default cd**

```
eval "$(zoxide init zsh --cmd cd)"
cd work
cd -
```

**Move from autojump**

```
zoxide import --from autojump ~/.local/share/autojump/autojump.txt
zoxide query -l | head
```

**Keep scratch dirs out of the database**

```
export _ZO_EXCLUDE_DIRS="$HOME:/tmp/*"
export _ZO_FZF_OPTS="--height 40% --reverse"
eval "$(zoxide init bash)"
```