

# From Bash to Z shell in 5 min



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Marcel the Shell with Shoes On  
Used with kind permission from Dean Fleischer-Camp  
<https://twitter.com/DFLEISCHERCAMP/status/553361408482476032>



**CMD.EXE**

**BASH**



**ZSHELL**



# Installation



```
    yum install zsh  
apt-get install zsh  
    brew install zsh
```



```
chsh -s /bin/zsh
```

# Bad default config





# 472 pages

THE EXPERT'S VOICE® IN OPEN SOURCE



# From Bash to Z Shell

Conquering the Command Line

Oliver Kiddle, Jerry Peek,  
and Peter Stephenson

Apress®



```
curl -L http://install.ohmyz.sh | sh
```



# Migration from Bash



~/ .bashrc → ~/ .zshrc

- Aliases and functions are “compatible”
- Prompt customizations are incompatible

~/ .bash\_profile → ~/ .profile  
or ~/ .zprofile

#!/bin/bash



# Demo Time



→ ~ █

```
→ ~ alias -g gr='| grep -i'
```



```
→ ~ alias -g gr='| grep -i'  
→ ~ ps -ef gr libreoffice
```

```
→ ~ alias -g gr='| grep -i'
```

```
→ ~ ps -ef gr libreoffice
```

```
pablo    15533      1  0 01:40 ?          00:00:00 /usr/lib64/libreoffice/program/oospl
```

```
ash --impress file:///shared/pablo_tamarit-from_bash_to_z_shell-2015-02-06.odp
```

```
pablo    15547 15533   1 01:40 ?          00:00:03 /usr/lib64/libreoffice/program/soffi
```

```
ce.bin --impress file:///shared/pablo_tamarit-from_bash_to_z_shell-2015-02-06.odp --
```

```
splash-pipe=5
```

```
pablo    15769 14876   0 01:44 pts/0      00:00:00 grep --color=auto --exclude-dir=.bzs
```

```
--exclude-dir=.cvs --exclude-dir=.git --exclude-dir=.hg --exclude-dir=.svn -i libre
```

```
office
```

```
→ ~ █
```

```
→ ~ tree
```

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

```
8 directories, 5 files
```

```
→ ~ █
```



→ ~ cd █

→ ~ cd █

**Desktop/**      **Downloads/**    **Pictures/**      **Templates/**  
**Documents/**   **Music/**          **Public/**        **Videos/**

→ ~ cd Desktop/

Desktop/ Downloads/ Pictures/ Templates/  
Documents/ Music/ Public/ Videos/



→ ~ cd Documents/

**Desktop/**      **Downloads/**    **Pictures/**      **Templates/**  
**Documents/**    **Music/**            **Public/**        **Videos/**

→ ~ cd Downloads/

**Desktop/**      **Downloads/**      **Pictures/**      **Templates/**  
**Documents/**    **Music/**            **Public/**        **Videos/**

```
→ ~ cd Downloads/
```



```
[pablo@pcpgsi7h11 ~]$ cd █
```

```
[pablo@pcpgsi7h11 ~]$ cd
```

```
.cache/          .gnome2/          Music/           .ssh/
.config/         .gnome2_private/ .oh-my-zsh/     Templates/
Desktop/         .gnupg/           Pictures/        Videos/
Documents/       .local/           .pki/
Downloads/       .mozilla/         Public/
```

```
[pablo@pcpgsi7h11 ~]$ cd █
```

```
[pablo@pcpgsi7h11 ~]$ cd
```

```
.cache/          .gnome2/          Music/           .ssh/
.config/         .gnome2_private/ .oh-my-zsh/     Templates/
Desktop/         .gnupg/           Pictures/        Videos/
Documents/       .local/           .pki/
Downloads/       .mozilla/         Public/
```

```
[pablo@pcpgsi7h11 ~]$ cd
```

```
.cache/          .gnome2/          Music/           .ssh/
.config/         .gnome2_private/ .oh-my-zsh/     Templates/
Desktop/         .gnupg/           Pictures/        Videos/
Documents/       .local/           .pki/
Downloads/       .mozilla/         Public/
```

```
[pablo@pcpgsi7h11 ~]$ cd █
```

```
[pablo@pcpgsi7h11 ~]$ cd
```

```
.cache/          .gnome2/          Music/            .ssh/
.config/         .gnome2_private/ .oh-my-zsh/      Templates/
Desktop/         .gnupg/           Pictures/         Videos/
Documents/      .local/           .pki/
Downloads/     .mozilla/         Public/
```

```
[pablo@pcpgsi7h11 ~]$ cd
```

```
.cache/          .gnome2/          Music/            .ssh/
.config/         .gnome2_private/ .oh-my-zsh/      Templates/
Desktop/         .gnupg/           Pictures/         Videos/
Documents/      .local/           .pki/
Downloads/     .mozilla/         Public/
```

```
[pablo@pcpgsi7h11 ~]$ cd
```

```
.cache/          .gnome2/          Music/            .ssh/
.config/         .gnome2_private/ .oh-my-zsh/      Templates/
Desktop/         .gnupg/           Pictures/         Videos/
Documents/      .local/           .pki/
Downloads/     .mozilla/         Public/
```

```
[pablo@pcpgsi7h11 ~]$ cd █
```

→ ~ cd D



→ ~ cd D

Desktop/ Documents/ Downloads/

→ ~ cd k

→ ~ cd Desktop/

```
→ ~ tree
```

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

```
8 directories, 5 files
```

```
→ ~ file d/s
```

```
→ ~ tree
```

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

```
8 directories, 5 files
```

```
→ ~ file Documents/spreadsheet.ods
```



→ ~ tree

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

8 directories, 5 files

→ ~ file d/p

```
→ ~ tree
```

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

```
8 directories, 5 files
```

```
→ ~ file Do/p
```

```
→ ~ tree
```

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

```
8 directories, 5 files
```

```
→ ~ file Do/p
```

```
Documents/ Downloads/
```

```
→ ~ tree
```

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

```
8 directories, 5 files
```

```
→ ~ file Documents/p
```

```
Documents/ Downloads/
```

→ ~ tree

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

8 directories, 5 files

→ ~ file Documents/p



```
→ ~ tree
```

```
.
├── Desktop
├── Documents
│   ├── presentation.odp
│   ├── spreadsheet.ods
│   └── text.odt
├── Downloads
│   ├── movie.avi
│   └── photo.jpg
├── Music
├── Pictures
├── Public
├── Templates
└── Videos
```

```
8 directories, 5 files
```

```
→ ~ file Documents/presentation.odp
```

```
→ ~ git a
```

```
→ ~ git a
```

```
add      -- add file contents to index
```

```
am       -- apply patches from a mailbox
```

```
apply   -- apply patch to files and/or to index
```

```
archimport -- import an Arch repository into git
```

```
archive -- create archive of files from named tree
```

```
→ ~ git add
```

```
add      -- add file contents to index
```

```
am       -- apply patches from a mailbox
```

```
apply   -- apply patch to files and/or to index
```

```
archimport -- import an Arch repository into git
```

```
archive -- create archive of files from named tree
```

```
→ ~ git add █
```



```
→ ~ git add -
```

```
→ ~ git add -
```

```
--dry-run          -n          -- do not actually add files; only show which o
--edit             -e          -- open diff against index in editor
--force           -f          -- allow adding otherwise ignored files
--ignore-errors   --no-all   -- continue adding if an error occurs
--ignore-removal  --no-all   -- like "--all" but ignore removals
--intent-to-add   -N          -- record only that path will be added later
--interactive     -i          -- add contents interactively to index
--no-ignore-removal --all      -A          -- add, modify, and remove index entries to mat
--patch          -p          -- like -i but go directly into patch mode for
--refresh         --do-not-add -- do not add files, but refresh their stat() i
--update         -u          -- update the index just where it already has a
--verbose        -v          -- show files as they are added
```

```
→ ~ git add --dry-run
```

```
--dry-run      -n      -- do not actually add files; only show which o
--edit         -e      -- open diff against index in editor
--force       -f      -- allow adding otherwise ignored files
--ignore-errors      -- continue adding if an error occurs
--ignore-removal  --no-all  -- like "--all" but ignore removals
--intent-to-add  -N      -- record only that path will be added later
--interactive    -i      -- add contents interactively to index
--no-ignore-removal --all      -A      -- add, modify, and remove index entries to mat
--patch        -p      -- like -i but go directly into patch mode for
--refresh      -- do not add files, but refresh their stat() i
--update       -u      -- update the index just where it already has a
--verbose      -v      -- show files as they are added
```

```
→ ~ git add --edit
```

```
--dry-run          -n          -- do not actually add files; only show which o
--edit             -e          -- open diff against index in editor
--force           -f          -- allow adding otherwise ignored files
--ignore-errors   --          -- continue adding if an error occurs
--ignore-removal  --no-all  -- like "--all" but ignore removals
--intent-to-add   -N          -- record only that path will be added later
--interactive     -i          -- add contents interactively to index
--no-ignore-removal --all      -A          -- add, modify, and remove index entries to mat
--patch           -p          -- like -i but go directly into patch mode for
--refresh         --          -- do not add files, but refresh their stat() i
--update         -u          -- update the index just where it already has a
--verbose        -v          -- show files as they are added
```

```
→ ~ kill -9 gn
```

```
→ ~ kill -9 10089
```

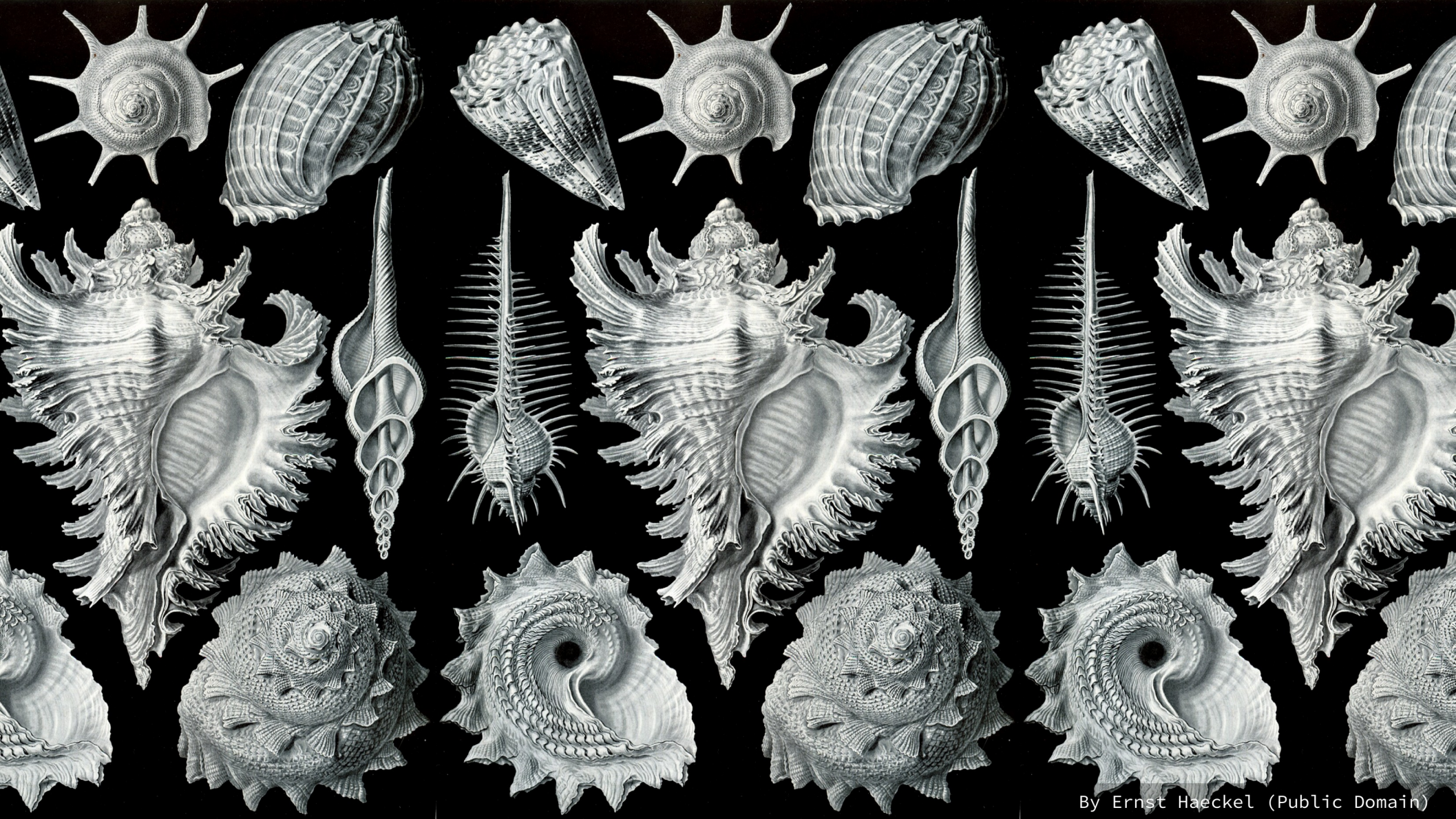
```
10089 pablo  gnome-keyring-d
10176 pablo  gnome-session
10247 pablo  gnome-settings-
10301 pablo  gnome-shell
10325 pablo  gnome-shell-cal
10506 pablo  gnome-software
12150 pablo  gnome-terminal-
12153 pablo  gnome-pty-helpe
16538 pablo  gnome-control-c
```

```
→ ~ kill -9 10176
```

```
10089 pablo  gnome-keyring-d
10176 pablo  gnome-session
10247 pablo  gnome-settings-
10301 pablo  gnome-shell
10325 pablo  gnome-shell-cal
10506 pablo  gnome-software
12150 pablo  gnome-terminal-
12153 pablo  gnome-pty-helpe
16538 pablo  gnome-control-c
```

```
→ ~ kill -9 10176 █
```









**fish**

# Thanks!

