

Options	
EXTEND-EDGLOB	Enables zsh extra features
PUSHDTHOME	<code>pushd</code> with no arguments redirects to <code>\$HOME</code>
NOEQUALS	prepending a command name with <code>=</code> replaces the command name with it's full path. (e.g. <code>echo =sudo</code> outputs <code>/usr/bin/sudo</code>) Can used with <code>ls -l =(command)</code> instead of <code>which command</code>
NOBANGHISTORY	Disable <code>!</code> (exclamation mark) history substitution <code>cs</code> -style.
RECEXACT	TAB-completion allows exact matches to be accepted even though there could be other matches.

Globbing Qualifiers	
Example	<code>pattern(qualifier)</code> e.g. <code>*(@)</code>
/	directories
X	executable by others files
x	executable by owner
W	world writable files
w	user writable files
R	world readable files/readable by others
r	owner readable files
U	user-owned files
@	symlinks
*(W^@)	world-writable but no symlinks
*.	find all plain files(e.g. no symlinks)
*(s)	find setuid files(only user-set)
<->	filename containing integers

Globbing Qualifiers (cont)	
<100-200>	integer range pattern
*(u1001)	search for files owned by uid 1001

if `echo` is used and no results are available then the pattern is echo'ed.

Expansions	
Arithmetic value Expansion	
<code>\$(...)</code> (e.g. <code>\$(RANDOM % 5)</code>)	
Command Output File	
<code>=(command)</code>	Explanation
	Outputs the file name holding the command's output. Can be used to edit command output on the spot.
	Different from <code><(...)</code> which creates a named pipe(FIFO)

Command Line Editing (ZLE)	
Zsh supports line editing in either Emacs or vi mode	
ZLE negates the need for <code>fc</code>	
In Emacs-mode	<code>fwrd-search</code>
CTRL+R	
Link to page	
Enable hosts-name completion	<code>hosts=(host_one.uk host_two.com)</code>

Globbing Basics	
^	(pattern) negation
<x-y>	Integer range(x and/or y are ommittable) e.g. <code>run<></code>
(.c .h .m)	grouping(or)
**/	recursive subdirectory search

Globbing Basics (cont)	
<code>/bar/</code>	directory search with partial path
<code>*.c~bar.c</code>	exclude <code>bar.c</code>

Functions	
Simplest Func def	<code>func_name () { ... }</code>
One liners are allowed	<code>func_name () echo "one liner"</code>
aliases are parsed when function is parsed so...	
<code>>func_name () {</code>	
<code>> ypmatch \$1 passwd</code>	
<code>>}</code>	
<code>% alias other_name=func_name</code>	
<code>% other_name</code>	
<code>% func_output</code>	
one liners are also a thing	<code>func_name () { for i; do echo \$i; done</code>
Check argument count	<code>if ((\$# ==0)) then echo "no args"; fi</code>
Declare integer	<code>integer j=3</code>

Important Links	
Prompts and Dirs	

Aliases	
Define alias	
Aliases can also include pipes	<code>alias m1='cat /etc/passwd grep mike'</code>
Zsh defines global aliases which can be used in a number of ways.	
Username aliases	



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Aliases (cont)

Global aliases can contain strings in general

```
alias -g m2='
grep -f file'
```

Global alias process

```
% alias -g
PASS='<(ypcat
passwd)'
% grep pfalstad
PASS
```

Start-Up Files

ENV ZDOTDIR(If not set HOME is used)

They are read in order

With some exceptions

.zshenv

.zprofile For ksh fans. Should not be used with .zlogin. But it's up to you.

.zshrc Sourced in interactive shells. Contains aliases, functions, options, key bindings etc.

.zlogin Sourced in login shells. Should contain only relevant commands. Should not be used for aliases or to change the env at all. Should only set terminal type and run series of external commands.

.zlogout Sourced during log out. Same as above.

Operators and Vars

% Modulus (can be used in scripts).

\$RANDOM Random Number var (returns a random num each time it is called).

\$TTY Current TTY.

Build-Ins

View function definition

```
functions func_name
```

View all function definition

```
functions
```

Autoload functions on startup

```
autoload func_name_1
func_name_2
```

Explanation

FPATH points to dir where files containing function definitions are stored. Each file must have 755 perms and be named after the function with no extensions. Call `autoload` on .zshrc and then you can call the functions.

Bonus: Place `#!` on top of function file and you can call the files as scripts too! <3 This a bit slower however since a separate process is created.

pushd If only two dirs exist in stack, swap their position.

History

fc command Calls default editor(vi by default) to edit history and all. --It effectively "replays" the last recorded command.

r command Re-does the last command replacing string with other strings

r command example % echo foo
% r foo=bar
echo bar



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