#### **Zsh Cheat Sheet**

A comprehensive cheat sheet for Zsh, covering essential commands, expressions, process substitution, and configuration tips for efficient command-line usage.



#### **Zsh Basics**

#### Shell Navigation

cd	Change directory to home.
<pre>cd <directory></directory></pre>	Change directory to <directory> .</directory>
cd -	Change to the previous directory.
pwd	Print the current working directory.
<pre>pushd <directory></directory></pre>	Push current directory onto stack and change to <directory> .</directory>
popd	Pop directory from stack and change to it.

#### File and Directory Management

ls	List files and directories in the current directory.
ls -1	List files with detailed information.
mkdir <directory></directory>	Create a new directory named <a href="#"><directory></directory></a> .
rm <file></file>	Remove the specified <file>.</file>
<pre>rm <file> rm -r <directory></directory></file></pre>	Remove the specified <file>.  Recursively remove the directory <directory> and its contents.</directory></file>

#### **Basic Commands**

echo <text></text>	Print <text> to the console.</text>
cat <file></file>	Display the contents of <file>.</file>
less <file></file>	View <file> one page at a time.</file>
head <file></file>	Display the first 10 lines of <file> .</file>
tail <file></file>	Display the last 10 lines of <file>.</file>
<pre>grep <pattern> <file></file></pattern></pre>	Search for <pattern> in <file> .</file></pattern>

## **Expressions and History**

#### History Expansion

11	Execute the last command.
! <numbe< td=""><td>Execute the command with the specified history number.</td></numbe<>	Execute the command with the specified history number.
!\$	The last word of the previous command.
!*	All words from the previous command (except the command name).
<u>iv</u>	The first argument of the previous command.
!-n	Execute the nth command from the end of the history list.

#### Filename Generation (Globbing)

*	Matches any string of characters.
?	Matches any single character.
[abc]	Matches a, b, or c.
[^abc	Matches any character except a, b, or c.
[a-z]	Matches any character in the range a to z.
**/*	Recursively matches files in subdirectories.

#### Modifiers in History Expansion

s/foo/ bar/	Substitute foo with bar.
&	Repeat the last substitution.
g	Global substitution.
h	Remove a trailing filename component, leaving only the head.
t	Remove all leading filename components, leaving the tail.
r	Remove a filename extension, leaving the root name.

#### **Process Substitution & Redirection**

#### **Process Substitution**

<(command	Treat the output of <b>command</b> as a file for reading.
> (command)	Treat a file as the input to command .
Example:	<pre>diff &lt;(ls dir1) &lt;(ls dir2)</pre>
Example:	<pre>sort &lt;(echo "b\na")</pre>
Example:	paste <(seq 3) <(seq 3)

#### Redirection

>

	' '
>>	Redirect output to a file (appends).
2>	Redirect standard error to a file.
<b>&amp;&gt;</b>	Redirect both standard output and standard error to a file.
	Pipe output of one command to the input of another.
tee	Send output to both standard output

Redirect output to a file (overwrites).

# Combining Redirection and Process Substitution

Example:
<pre>comm &lt;(sort file1) &lt;(sort file2)</pre>
Compares two sorted files and outputs the lines unique to each file and the lines common to both.
Example:
grep pattern <(zcat file.gz)
Grep through gzipped file without explicit extraction.
Example:
wc -1 <(1s -1   grep "^-")
Counts the number of files in the current directory.

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# **Zsh Configuration**

# Zsh Configuration Files

<ul> <li>-/.zshrc - User-specific configuration file executed when a new shell is started interactively.</li> </ul>
~/.zprofile - User-specific configuration file executed for login shells.
<pre>~/.zlogin - Alternative for ~/.zprofile , also executed for login shells.</pre>
~/.zlogout - User-specific configuration file executed when a login shell exits.
/etc/zsh/zshrc - System-wide configuration file for interactive shells.
/etc/zsh/zprofile - System-wide configuration file for login shells.

## Options and Settings

<pre>setopt <option></option></pre>	Enable a Zsh option.
unsetopt <pre><option></option></pre>	Disable a Zsh option.
bindkey <key> <command/></key>	Bind a key sequence to a Zsh command.
alias <name>= <command/></name>	Create an alias for a command.
export VAR=value	Set an environment variable.
source <file></file>	Execute commands from ( <file>) in the current shell.</file>

# **Example Configuration Snippets**

Enable command autocorrection:
setopt correct
Set up a custom alias:
alias la='ls -la'
Configure history settings:
HISTSIZE=10000
SAVEHIST=10000
Enable vi mode:
bindkey -v

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