

Mac shell

macOS Catalina 10.15 安装 bash 和 zsh

Why

Mac 的 license 是 GPL v3.2.57 2005 年发布的 bash 是 GPL v3 2025 年发布的 zsh 是 Apple 的 bash 的 fork

Then

安装 zsh 使用 oh-my-zsh 安装 apple 的 bash 使用 homebrew 安装

Commands

cpulimit

安装 cpulimit

- freebsd 安装
- macOS 安装 `cpulimit -l <number> <command>`

Main difference

Array

Functionality	Bash syntax	Idiomatic zsh syntax	Expansion
First element	<code>\${a[0]}</code>	<code>a[1]</code> or <code>\${a[1]}</code>	first
Second element	<code>\${a[1]}</code>	<code>a[2]</code> or <code>\${a[2]}</code>	second
Last element	<code>\${a[\${#a[@]}-1]}</code>	<code>a[-1]</code> or <code>\${a[-1]}</code>	last
Length	<code>\${#a[@]}</code>	<code>#a</code>	5
All the elements	<code>"\${a[@]}"</code>	<code>"\${a[@]}"</code> or <code>"\${(@)a}"</code>	first second third (empty word) last
All the non-empty elements		<code>a</code>	first second third last

Glob qualifiers

expression	matching / example	desc
<code>foo*(.)</code>	<code>foo*</code>	-r- or lr-
<code>foo*(.*)</code>	<code>foo*</code>	-r-x
<code>foo*(-.)</code>	<code>foo*</code>	-r--
<code>foo*(-@)</code>	<code>foo*</code>	lr--
<code>foo*(om)</code>	<code>foo*</code>	sort by modified time
<code>foo*(om[1,10])</code>	<code>foo* sort head -10</code>	
<code>foo*(Lm+1)</code>	<code>foo* filter size > 1M</code>	
<code>foo*(N)</code>	<code>foo* or empty list???</code>	安装
<code>*(D)</code>		show hidden files too(except . and ..)
<code>foo/bar/*(t)</code>	<code>foo/bar/aa.txt => aa.txt</code>	foo/bar trimmed
<code>foo/bar/*(.:r)</code>	<code>foo/bar/a.txt=>foo/bar/a</code>	extension trimmed
<code>foo*.odt(e"REPLY=\$REPLY:r.pdf")</code>	<code>foo.odt => foo.pdf</code>	
<code>foo*.txt~foo*</code>		~ means excluding zsh
<code>image<->.jpg(n)</code>	<code>image100.jpg</code>	n means glob qualifier zsh

mass-rename files

zsh provides a very convenient tool: the `mvn` function. Suggested for your

zsh provides a very convenient tool: the [zmv function](#). Suggested for your .zshrc:

```
autoload zmv
alias zcp='zmv -C' zln='zmv -L'
# Example:
zmv '(*).jpeg' '$1.jpg'
zmv '(*)-backup.(*)' 'backups/$1.$2'
```

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