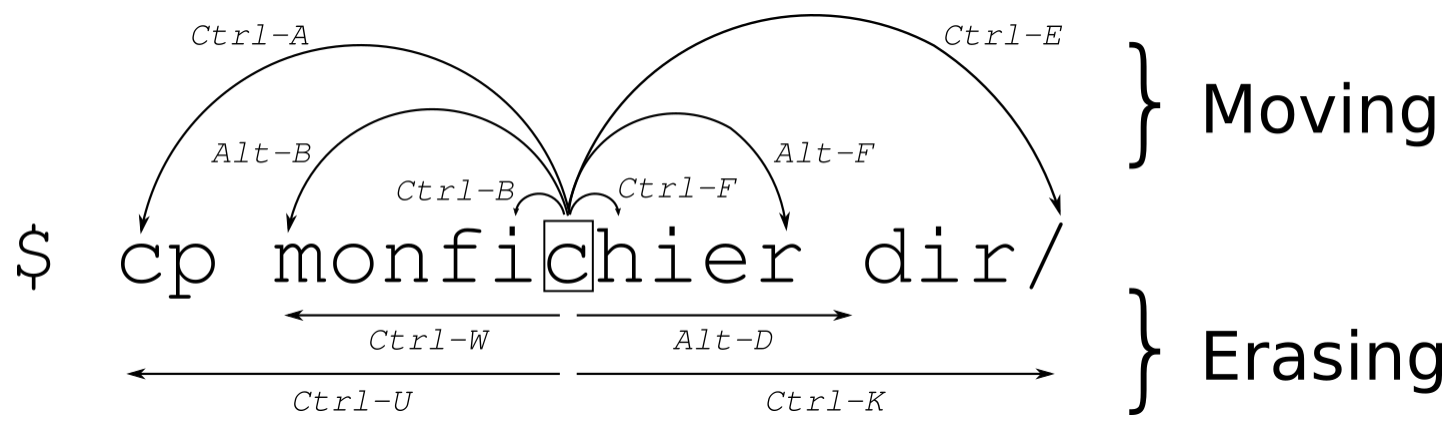


# Useful bash / zsh shortcuts

MacOS iTerm 2 users must turn on meta key — [https://coderwall.com/p/\\_lmivq](https://coderwall.com/p/_lmivq)

Nice visual cheatsheet from the [article](#):



## Move cursor

Ctrl + a	Go to the beginning of the line (Home)
Ctrl + e	Go to the End of the line (End)
Alt + b	Back (left) one word
Alt + f	Forward (right) one word
Ctrl + f	Forward one character
Ctrl + b	Backward one character
Ctrl + xx	Toggle between the start of line and current cursor position

## Edit

Ctrl + u	Cut the line before the cursor position
Alt + Del	Delete the Word before the cursor
Alt + d	Delete the Word after the cursor
Ctrl + d	Delete character under the cursor
Ctrl + h	Delete character before the cursor (backspace)
Ctrl + w	Cut the Word before the cursor to the clipboard
Ctrl + k	Cut the Line after the cursor to the clipboard
Alt + t	Swap current word with previous
Ctrl + t	Swap the last two characters before the cursor (typo)
Esc + t	Swap the last two words before the cursor.
Ctrl + y	Paste the last thing to be cut (yank)
Alt + u	UPPER capitalize every character from the cursor to the end of the current word.
Alt + l	Lower the case of every character from the cursor to the end of the current word.
Alt + c	Capitalize the character under the cursor and move to the end of the word.
Alt + r	Cancel the changes and put back the line as it was in the history (revert)
Ctrl + _	Undo

## History

Ctrl + r	Recall the last command including the specified character(s)(equivalent to : vim ~/.bash_history).
Ctrl + p	Previous command in history (i.e. walk back through the command history)
Ctrl + n	Next command in history (i.e. walk forward through the command history)
Ctrl + s	Go back to the next most recent command.
Ctrl + o	Execute the command found via Ctrl+r or Ctrl+s
Ctrl + g	Escape from history searching mode
Alt + .	Use the last word of the previous command

Process control

Bang(!) - The History Expansion

Bash also has some handy features that use the ! (bang) to allow you to do some funky stuff with bash commands.

General notation is `![event][:word[:modifier[:modifier]...]]`.

You may ommit word separator `:`, if the word designator begins with a `^`, `$`, `*`, `_`, or `%`.

If a word designator is supplied without an event specification, the previous command is used as the event.

After the optional word designator, you can add a sequence of one or more modifiers, each preceded by a `:`.

Events	Meaning	Example
!	Start a history substitution, except when followed by a space, tab, the end of the line, '=' or '(' (when the extglob shell option is enabled using the shopt builtin).	<div></div>

<code>!<i>n</i></code>	Refer to command line <i>n</i> .	<pre>\$ history 1 echo foo bar baz 2 history \$ !1 #Print command that will be saved in history #+and executed echo foo bar baz #Actual execution foo bar baz</pre>
<code>!<i>n</i></code>	Refer to the command <i>n</i> lines back.	<pre>\$ history 1 echo foo 2 echo bar 3 echo baz 4 history \$ !-3 echo bar bar</pre>
<code>!!</code>	Refer to the previous command. This is a synonym for ‘! <i>-1</i> ’.	<pre>\$ echo foo bar baz foo bar baz \$ !! echo foo bar baz foo bar baz</pre>
<code>!<i>string</i></code>	Refer to the most recent command preceding the current position in the history list starting with <i>string</i> .	<pre>\$printf '%s\n' foo foo \$ echo bar bar \$ !pri printf '%s\n' foo foo</pre>
<code>!<i>?string</i>[?]</code>	Refer to the most recent command preceding the current position in the history list containing <i>string</i> . The trailing ‘?’ may be omitted if the <i>string</i> is followed immediately by a newline.	<pre>\$printf '%s\n' foo foo \$ echo bar bar \$ !?ntf printf '%s\n' foo foo \$ !?bar echo bar bar</pre>

<code>^string1^tring2^</code>	Quick Substitution. Repeat the last command, replacing <b><i>string1</i></b> with <b><i>string2</i></b> . Equivalent to <code>`!!:s/string1/string2`</code> .	For more info, refer to <code>`s/old/new/`</code> in <b>Modifiers</b> section. <div>\$ echo foo foo \$ ^echo^printf '%s\n'^ printf '%s\n' foo foo</div>
<code>!#</code>	Repeat entire command line before this event.	<div>\$ echo foo; echo bar; !#echo baz echo foo; echo bar; echo foo; echo bar; echo baz foo bar foo bar baz</div>
Words	Meaning	Example
0 (zero)	The 0th word. For many applications, this is the command word.	<div>\$ echo foo foo \$ !:0 echo</div>
<i>n</i>	The <b><i>n</i></b> th word.	<div>\$ echo foo bar baz foo bar baz \$ echo !:2 echo bar bar</div>
<code>^</code>	The first argument; that is, word 1.	<div>\$ echo foo bar baz foo bar baz \$ echo !^ echo foo foo</div>
<div>\$</div>	The last argument.	<div>\$ echo foo bar baz foo bar baz \$ echo !\$ echo baz baz</div>

<p>%</p>	<p>The word matched by the most recent <code>`?string?`</code> search</p>	<pre>\$ echo foo foo \$ printf '%s\n' bar bar \$ !?ch echo foo foo \$ !% baz echo baz baz \$ !?bar printf '%s\n' bar bar \$ echo !% echo bar bar</pre>
<p>x-y</p>	<p>A range of words; <code>`-y`</code> abbreviates <code>`0-y`</code>.</p>	<pre>\$ echo foo bar baz foo bar baz \$ echo !:2-3 echo bar baz bar baz \$ !:-1 echo bar bar</pre>
<p>*</p>	<p>All of the words, except the 0th. This is a synonym for <code>`1-\$`</code>. It is not an error to use <code>`*`</code> if there is just one word in the event - the empty string is returned in that case.</p>	<pre>\$ echo foo bar baz foo bar baz \$ printf '%s\n' !* printf '%s\n' foo bar baz foo bar baz</pre>
<p>x*</p>	<p>Abbreviates <code>`x-\$`</code></p>	<pre>\$ echo foo bar baz foo bar baz \$ printf '%s\n' !:2* printf '%s\n' bar baz bar baz</pre>

x-	Abbreviates `x-\$` like `x*`, but omits the last word.	<pre>\$ echo foo bar baz foo bar baz \$ printf '%s\n' !:0- printf '%s\n' echo foo bar echo foo bar</pre>
Modifiers	Meaning	Example
p	Print the new command but do not execute it. Printed command is saved in history, so you can use <code>Ctrl+p</code> to re-enter it in current prompt.	<pre>\$ echo foo bar baz foo bar baz \$ !:p #Printed, but not executed echo foo bar baz \$ !:*:p foo bar baz</pre>
h	Remove a trailing pathname component, leaving only the head (Actually, remove all after last `/`, including).	<pre>\$ echo foo /example/path/bar.txt baz foo /example/path/bar.txt baz \$ !:p:h echo foo /example/path</pre>
t	Remove all leading pathname components, leaving the tail (Actually, remove all before last `/`, including).	<pre>\$ echo foo /example/path/bar.txt baz foo /example/path/bar.txt baz \$ !:p:t bar.txt baz</pre>
r	Remove a trailing suffix of the form `.suffix`, leaving the basename (Actually, remove	<pre>\$ echo foo /example/path/bar.txt baz foo /example/path/bar.txt baz \$ !:p:r echo foo /example/path/bar</pre>

	all after last `.`, including).	
e	Remove all but the trailing suffix (Actually, remove all before last `.`, including).	<pre>\$ echo foo /example/path/bar.txt baz foo /example/path/bar.txt baz \$ !:p:e txt baz</pre>
q	Quote the substituted words, escaping further substitutions.	<pre>\$ echo foo 'bar baz' foo bar baz \$ !:p:q 'echo foo '\`bar baz'\`''</pre>
x	Quote the substituted words as with 'q', but break into words at spaces, tabs, and newlines.	<pre>\$ echo foo 'bar baz' foo bar baz \$ !:p:x 'echo' 'foo' '\`bar' 'baz'\`''</pre>
s/old/new/	Substitute <b>new</b> for the first occurrence of <b>old</b> in the event line. Any delimiter may be used in place of `.`. The delimiter may be quoted in <b>old</b> and <b>new</b> with a single backslash. If `&` appears in <b>new</b> , it is replaced by <b>old</b> . A single backslash will quote the `&`. The final delimiter is optional if it is the last character on the input line.	<pre>\$ echo foo bar foo bar \$ !:p:s/foo/baz echo baz bar</pre>



&	Repeat the previous substitution.	<pre>\$ echo foo bar foo bar \$ !:p:s/foo/baz echo baz bar \$ printf '%s\n' foo foo \$ !:p:&amp; printf '%s\n' baz</pre>
g a	Cause changes to be applied over the entire event line. Used in conjunction with `s`, as in gs/old/new/, or with `&`.	<pre>\$ echo foo bar foo foo bar foo \$ !:p:gs/foo/baz echo baz bar baz</pre>
G	Apply the following 's' modifier once to each word in the event.	<p>Result is same as in `g` modifier</p>

## Recent links

- [Bash Shortcuts For Maximum Productivity](#)
- [Syntax Bashkeyboard](#)
- [Moving efficiently in the CLI](#)
- [Bash History Expansion](#)