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A number of characters have a special meaning and cause certain actions to take place. If you want to print them directly, you usually have to prefix them with a backslash (\) or enclose them in single quotes.

# **Redirection Special Characters**

Character	Usage
\#>	Redirect output descriptor (Default # = 1, stdout)
<	Redirect input descriptor
>>	Append output
>&	Redirect <b>stdout</b> and <b>stderr</b> (equivalent to > <b>2&gt;&amp;1</b> )

# **Compound Commands Special Characters**

Character	Usage
1	Piping
0	Execute in a separate shell
&&	AND list
II	OR list
;	Separate commands

# **Expansion Special Characters**

Character	Usage
8	Lists
~	Usually means \$HOME
\$	Parameter substitution
	Back tick; used in expression evaluation (also <b>\$()</b> syntax)
\$(( ))	Arithmetic substitution
П	Wildcard expressions, and conditionals

# **Escapes Special Characters**

Character	Usage
1	End of line, escape sequence
"	Take exactly as is
н н	Take as is, but do parameter expansion

## **Other Special Characters**

Character	Usage
&	Redirection and putting task in background
#	Used for comments
*?	Used in wildcard expansion
!	Used in history expansion

Note there are three different quoting mechanisms listed above:

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• \(as in \|; try echo | vs echo \|)

• single quotes: preserves literal value



Q

• double quotes: same except for \$, ', and \.

Note you can get a literal quote character by using **V** or **V**".

Try:

- 1 \$ echo \$HOME
- 2 \$ echo \\$HOME
- 3 \$ echo '\$HOME'
- 4 \$ echo "\$HOME"

✓ Complete





