

GNU sed Cheat Sheet

Sed is a stream editor. It transforms text in an input stream, such as a file or pipe. Sed works on one line at a time. Because it has no visual display, it creates a pattern space, and once the pattern space is populated, your transformations are executed.

Commands						
sedoptions [optional SCRIPT] [INPUT STREAM]						
р	print	h	copy pattern to hold space	Н	append to hold	
d	delete	g	copy hold space to pattern space	G	append to pattern	
n	read next line	t	branch on successful substitution	b	branch	
s	search and replace	х	exchange pattern and hold space			

Options

-n, --quiet Don't automatically print the pattern space

-e, --expression Provide a script to be executed

-f, --file File containing a script

-i, --in-place .bak Make changes in a file directly, but create a backup copy

Address

An address or address range defines the input scope for a command

sed -	n '1q;p'	Select line 1, and then print	delete	sed	'1 d'
sed -	n '1p;\$p'	Select first and last lines, and print	delete	sed	'1d;\$d'
sed '	1!p'	Select all but the first line, and print	delete	sed	'1!d'
sed '	/foo/ p'	Select lines containing foo, then print	delete	sed	'/foo/ d'
sed '	3,7 p'	Starting on line 3 and ending on line 7, print each line			
sed '	3,/foo/ p'	p' Starting on line 3, ending after the first occurrence of foo , print each line			

Supported by **Red Hat**



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Find and replace

sed 's/closed/open/g'	Replace closed with open
<pre>sed '/code/ s/closed/open/g'</pre>	Replace closed with open on lines containing code
<pre>sed '/code/! s/closed/open/g'</pre>	Replace only on lines NOT containing code
sed "s/\$//"	Replace newline characters

Putting it all together

sed -n -e '/[Oo]pen/h' \ -e '/[Oo]pen/d' \ -e '/projects/ G;p'	Copy and delete (effectively <i>cut</i>), and then paste any line containing Open or open after the line containing projects
sed '/^\$/d'	Delete any empty line
<pre>sed -e :branch \ -e '/^\n*\$/{\$d;N;bbranch' \ -e '}'</pre>	Create a branch (called branch) replacing lines containing nothing but a newline, then loop back to the beginning of the branch until done
sed 's/^[\t]*//'	Remove leading spaces and tabs from line
<pre>sed = FILE sed 'N ; s/\n/\t/'</pre>	Print line numbers (using the = command) of FILE, then read the next line (N) , replacing the newline character with a tab character

Regular expression

•	Any single character	٨	Start of a line
?	Match preceding item zero or one time	\$	End of a line
*	Match preceding item zero or more times	\s	Space
+	Match preceding item one or more times	\t	Tab
{2}	Match preceding item two times	\n	Newline
{3,}	Match preceding item three or more times		
{,4}	Match preceding item at most four times		
[A,B]	Match A or B	[1-3]	Match all digits 1 to 3

