

Sed is a stream editor. It transforms text in an input stream (a file or pipe). Sed works on one line at a time, creating a *pattern space*; once pattern space is populated, transformations are performed.

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	n read next line		t	branch on successful substitution		b	branch		
s	search and replace		x	exchange pattern and hold space					
Options									
-n,quiet			Do	Don't automatically print the pattern space					
-e,expression			Pr	Provide a script to be executed					
-f,file			Fil	File containing a script					
-i,in-place .bak			Ma	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 I		line 1	line 1, and then print		se	ed '1 d'			
sed -n '1p;\$p' Select f		first a	first and last lines, and print		se	ed '1d;\$d'			
sed '1!p' Select a		all but the first line, and print		delete	se	ed '1!d'			
sed '/foo/ p' Select I		lines	ines containing foo , then print delete		se	ed '/foo/ d'			
sed	sed '3,7 p' Starting on line 3 and ending on line 7, print each line								
sed	sed '3,/foo/ p' Starting on line 3, ending after the first occurrence of foo , print each line								

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GNU sed Cheat Sheet

Find and replace									
sed 's/	closed/open/g'	Replace closed with open							
sed '/c	ode/ s/closed/open/g'	Replace closed with open on lines containing code							
sed '/c	ode/! s/closed/open/g'	Replace only on lines NOT containing code							
sed "s/	\$//"	Replace newline characters							
Putting it all together									
-e '/[0	-e '/[Oo]pen/h' \ o]pen/d' \ ojects/ 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							
	:branch \ n*\$/{\$d;N;branch' -e '}'	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							
Regular expression									
•	Any single character		^	Start of a line					
?	Match preceding item zero or o	one time	\$	End of a line					
*	Match preceding item zero or n	nore times	\s	Space					
+	Match preceding item one or m	ore times	\t	Tab					
{2}	Match preceding item two time:	S	∖n	Newline					
{3,}	Match preceding item three or	more times	{,4}	four or more times					
[AB]	Match A or B		[1-3]	Match all digits 1 to 3					

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