

## Sed Cheat Sheet by [deleted] via cheatography.com/30394/cs/9098/

regexp				
wild characters				
char	a single character, if not special, is matched against text			
	matches any character			
*	matches a sequence of 0 or more repetitions of previous character/grouped regexp/class			
.*	match all characters on every line (including empty ones)			
\+	as *, but matches 1 or more			
.\+	match all characters on every non-empty line			
\?	as *, but only matches 0 or 1 character			
special characters				
\n	new line			
\t	tab			
\s	whitespace			
\S	any non-whitespace character			
\w	any word character (letter, digit, underscore)			
\W	any non-word character			
line beginnin	g			
٨	matches the null string at the beginning of the line. What appears after ^ must appear at the beginning of the line			
^#	match every line beginning with a # character			
line ending				
\$	same as ^, but refers to the end of line			
\\$	dollar sign is escaped, so this matches lines ending with a single dollar			
\\\$	backslash is escaped, so this matches lines ending with a single backslash			
number of se	equences			
\{i\}	as *, but matches exactly i number of sequences			
\{i,\}	matches more than or equal to <i>i</i> sequences			
\{i,j\}	matches between <i>i</i> and <i>j</i> sequences, inclusive			
.\{9\}A\$	matches an A that is the last character on line, with at least 9 preceding characters			
^.\{15\}A	matches an A that is the 16th character on a line			
groups and lists				
[list]	matches any single character in list. Dashes indicate inclusive sequences.			
[a-zA-Z0-9]	matches any letters or digits			



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printing	
sed " file	auto print file contents to command line (essentially cat)
sed -n 'p' file	-n surpresses auto printing of each line; $p$ prints each line (same result as above)
sed -n '1p' file	print only 1st line
sed -n '1,5p' file	print 1st through 5th lines
sed -n '1,+4p' file	print 1st line and next 4 lines (same output as above)
sed -n '1~2p' file	print every 2nd line beginning with the 1st
sed -n '/keyword/p' file	prints every line that contains keyword

deleting	
sed '1~2d' file	delete every 2nd line beginning with the 1st (without -n option will also print what remains)
sed '/^\$/d' file	matches any blank lines and passes them to the delete command
sed '/^\$/!d' file	delete any line that is not blank (! inverts the address)
sed 's/[0-9]//g' file	delete all digits in all lines

interact with files		
sed '1~2d' file > newfile	delete every 2nd line from file, print remaining lines to newfile	
sed -i '1~2d' file	delete every 2nd line "in-place", changes original file	
sed -i.bak '1~2d' file	create backup file with .bak extension, edit the regular file in place	
Note that source file is not affected by the basic commands: the edits are directed only to the command line unless explicitly directed to a file		

substitute				
basic substitution				
sed 's/oldword/newword/'	change 1st instance of oldword in each line to newword			
sed 's dir1/oldword dir2/newword '	if string includes forward slash, other valid delimiters include pipe, underscore			
start options				
sed 'keyword/s/oldword/newword/' file	replace first instance of oldword with newword in any line that includes keyword			
sed '1,3s/.*/newword/' file	substitute everything in 1st, 2nd, and 3rd lines with newword			
end flags				
sed 's/oldword/newword/flag' file	flag can be any of the below			
g	substitute every instance of oldword instead of just the first on each line (default behavior)			



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substitute (cont)				
2	substitute only <i>number</i> th instance of oldword on each line			
p	print new pattern space for all lines where substitution was made			
i	ignore case			
other commands				
sed 's/word/(&)/' file	& holds matched pattern (word) and puts parentheses around it			
sed 's/old/new/';s/first/second/' file	semicolon strings together distinct commands			
examples				
sed -n 's/oldword/newword/2p' file	prints the lines where substitution took place			

random tricks	
sed 's/.*/\"&\"/g'	add double quotes to line
sed "s .* \$dirname " file	use double quotes to expand variables within replacement. Use a different delimiter if variable contains slashes (e.g. directory path)
<pre>var=\$(sed -n "\${i}p" file)</pre>	set variable equal to line in <i>file</i> , where line number <i>i</i> is also a variable

Also remember sed reads and operates line by line. Some commands modify the output stream directly (so can't use results for more editing unless pipe it to another sed command).



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