Notation	Description	Example Regex			
Symbols					
literal	Match literal string value <i>literal</i>	foo			
re1 re2	Match regular expressions re1 or re2	foo bar			
	Match any character (except \n)	b.b			
٨	Match start of string	^dear			
\$	Match end of string	/bin/*sh\$			
*	Match 0 or more occurrences of preceding regex	[a-za-z0-9]*			
+	Match 1 or more occurrences of preceding regex	[a-z]+\.com			
?	Match 0 or 1 occurrences of preceding regex	goo?			
{N}	Match Noccurrences of preceding regex	[0-9]{3}			
$\{M,N\}$	Match from <i>M to N</i> occurrences of preceding regex	[0-9]{5,9}			
[]	Match any single character from <i>character class</i>	[aeiou]			
[x-y]	Match any single character in the range from x to y	[0-9],[A-Za-z]			
[^]	Do not match any character from character class, including any	[^aeiou]			
	ranges, if present	[^A-Za-z0-9_]			
(* + ? {})?	Apply "non-greedy" versions of above occurrence/ repetition	.*?[a-z]			
	symbols (*, +, ?, {})				
()	Match enclosed regex and save as <i>subgroup</i>	([0-9{3}])?, f(oo u)bar			
Special Characte	ers				
\d	Match any decimal <i>digit</i> , same as [0-9]	data\d+.txt			
	(\D is inverse of \d: do not match any numeric digit)				
\w	Match any alphanumeric character, same as [A-Za-z0-9_]	[A-Za-z_]\w+			
	(\W is inverse of \w)				
\s	Match any whitespace character, same as [\n\t\r\v\f] (\S)	of\sthe			
\b	Match any word boundary (\B is inverse of \b)	\bThe\b			
\N	Match saved subgroup N (see () above)	Price: \16			
\c	Match any <i>special character</i> c verbatim (i.e., without its special	\., \ \*			
	meaning, literal)				
\A (\Z)	Match start (end) of string (also see ^ and \$ above)	<b>\</b> ADear			
Extension Notation					
(?iLnsux)	Embed one or more special "flags" parameters within the regex	(?x), (?im)			
	itself (vs. via function/method)				
(?:)	Signifies a group whose match is <i>not</i> saved	(?:\w\.)*			
(?P <name>)</name>	Like a regular group match only identified with name rather than a	(?P <data>)</data>			
	numeric ID				
(?P=name)	Matches text previously grouped by (?P <name>) in the same string</name>	(?P <data>)</data>			
(?#)	Specifies a comment, all contents within ignored	(?#comment)			
(?=)	Matches if comes next without consuming input string; called	(?=.comt)			
	positive lookahead assertion				
(?!)	Matches if does not come next without consuming input; called	(?!.net)			
	negative lookahead assertion				
(?<=)	Matches if comes prior without consuming input string; called	(?<=800-)			
•	positive lookbehind assertion	·			
(? )</td <td>Matches if does not come prior without consuming input; called</td> <td>(?<!--192\.168\.)</td--></td>	Matches if does not come prior without consuming input; called	(? 192\.168\.)</td			
•	negative lookbehind assertion				
(?(id/name)Y N)	Conditional match of regex Y if group with given id or name exists	(?(1)y x			
, , , , , , ,	else N;  N is optional				
	· I I				