

## Basic Regular Expression

*Robertus Diawan Chris*

.	Any one character
*	Match any number of previous character (including zero number of previous character)
+	Match any number of previous character
\$	End of the line
^	Beginning of the line
\S	Any non-whitespace character
\s	Any whitespace character
?	The character before is optional
[a-z]	Any lowercase letter
[A-Z]	Any uppercase letter
[A-Za-z]	Any letter
[0-9]	Any number (it can also be [1-9], [6-9], and so on)
\	Escape something (if it's magical character then it's gonna make it normal character and vice versa)

Example:

- `grep "f.x" <filename>` -> grep anything that start with f, end with x, and any one character between f and x.  
example results: fox, fix, fax
- `grep "fo*x" <filename>` -> grep anything that start with f, end with x, and any number of previous character including something that doesn't have previous character (which is "o" in this case), between f and x.  
example results: fox, foxxxxx, fx
- `grep "fo+x" <filename>` -> grep anything that start with f, end with x, and any number of previous character excluding something that doesn't have previous character (which is "o" in this case), between f and x.  
example results: fox, foxxxxx
- `grep "x$" <filename>` -> grep anything that end with x.  
example results: fox, fix, fax, foxxxxx, fx
- `grep "^sp" <filename>` -> grep anything that start with sp.  
example results: split, splinter, spine, sparse, spring, spool
- `grep "\S*oomer" <filename>` -> grep anything that doesn't has whitespace character in it.  
example: if there's a text "the consoomer" then the highlight gonna be on "consoomer" and left out "the" text
- `grep "the\s\+consoomer" <filename>` -> grep anything that has whitespace character in it.  
example: if there's a text "the consoomer" and "the      consoomer" then the highlight gonna be on both of them regardless of the space
- `grep "https?" <filename>` -> grep anything that has or doesn't has "s" character  
example result: http, https

Reference: <https://www.youtube.com/watch?v=77I4ZkhuHsQ>