## Bash string manipulation cheatsheet

Assignment	
Assign value to variable if variable is not already set, value is returned.  Combine with a: no-op to discard/ignore return value.	<pre>\${variable="value"} : \${variable="value"}</pre>
Removal	
Delete shortest match of needle from front of haystack	\${haystack#needle}
Delete longest match of needle from front of haystack	\${haystack##needle}
Delete shortest match of needle from back of haystack	\${haystack%needle}
Delete longest match of needle from back of haystack	\${haystack%needle}
Replacement	
Replace first match of needle with replacement from haystack	\${haystack/needle/replacement}
Replace all matches of needle with replacement from haystack	<pre>\${haystack//needle/replacement}</pre>
If needle matches front of haystack replace with replacement	<pre>\${haystack/#needle/replacement}</pre>
If needle matches back of haystack replace with replacement	\${haystack/%needle/replacement}
Substitution	
If variable not set, return value , else variable	\${variable-value}
If variable not set or empty, return value , else variable	\${variable:-value}
If variable set, return value , else null string	\${variable+value}
If variable set and not empty, return value, else null string	\${variable:+value}
Extraction	
Extract length characters from variable starting at position	<pre>\${variable:position:length}</pre>
String length of variable	\${#variable}
Escaping	
Single quotes inside a single quoted string	echo 'Don'\''t break my escape!'

## Reference

- http://tldp.org/LDP/abs/html/string-manipulation.html
- http://tldp.org/LDP/abs/html/parameter-substitution.html
- Special characters:
  - $\circ \ \ *: https://www.tldp.org/LDP/abs/html/special-chars.html\#ASTERISKREF$
  - $\circ \ \ ?: https://www.tldp.org/LDP/abs/html/special-chars.html \#WILDCARDQU$
- http://pubs.opengroup.org/onlinepubs/9699919799/utilities/V3\_chap02.html#tag\_18\_06\_02

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