**Regular Expressions Cheat Sheet**

**by Dave Child (DaveChild) via cheatography.com/1/cs/5/**

---

### Anchors

- `^` Start of string, or start of line in multiline pattern
- `\A` Start of string
- `$` End of string, or end of line in multiline pattern
- `\Z` End of string
- `\b` Word boundary
- `\B` Not word boundary
- `<` Start of word
- `>` End of word

### Character Classes

- `\c` Control character
- `\s` White space
- `\S` Not white space
- `\d` Digit
- `\D` Not digit
- `\w` Word
- `\W` Not word
- `\x` Hexadecimal digit
- `\O` Octal digit

### POSIX

- `[upper:]` Upper case letters
- `[lower:]` Lower case letters
- `[alpha:]` All letters
- `[alnum:]` Digits and letters
- `[digit:]` Digits
- `[xdigit:]` Hexadecimal digits
- `[punct:]` Punctuation
- `[blank:]` Space and tab
- `[space:]` Blank characters
- `[cntrl:]` Control characters
- `[graph:]` Printed characters
- `[print:]` Printed characters and spaces
- `[word:]` Digits, letters and underscore

---

### Assertions

- `?=` Lookahead assertion
- `?!` Negative lookahead
- `?<=` Lookbehind assertion
- `?! or ?<` Negative lookbehind
- `?>` Once-only Subexpression
- `?()` Condition [if then]
- `?[]` Condition [if then else]
- `#` Comment

### Quantifiers

- `*` 0 or more
- `{3}` Exactly 3
- `+` 1 or more
- `{3,}` 3 or more
- `?` 0 or 1
- `{3,5}` 3, 4 or 5

Add a ? to a quantifier to make it ungreedy.

### Escape Sequences

- `\` Escape following character
- `\Q` Begin literal sequence
- `\E` End literal sequence

"Escaping" is a way of treating characters which have a special meaning in regular expressions literally, rather than as special characters.

### Common Metacharacters

- `^` Start of string or line
- `{` 0 or more
- `*` 0 or more
- `{3}` Exactly 3
- `+` 1 or more
- `{3,}` 3 or more
- `<` 0 or 1
- `{3,5}` 3, 4 or 5
- `?` 0 or 1
- `{3,5}` 3, 4 or 5

The escape character is usually `\`.

### Special Characters

- `\n` New line
- `\r` Carriage return
- `\t` Tab
- `\v` Vertical tab
- `\f` Form feed
- `\xxx` Octal character xxx
- `\xhh` Hex character hh

---

By Dave Child (DaveChild)
chedography.com/davechild/aloneonahill.com

Published 19th October, 2011.
Page 1 of 1.

Sponsored by ApolloPad.com
Everyone has a novel in them. Finish Yours!
hits.apollopad.com