Regular Expressions Cheat Sheet

Metacharacters (must be escaped)

Start of string End of string

Grouping

Word boundaries

Any character

Quantifiers Character class Repetition

Escape

Alternation

Ouantifiers

0 or more

1 or more

0 or 1

Exactly 3 {3}

3 or more {3,}

{3,5} 3, 4 or 5

Anchors

Start of string $^{,}ackslash A$ End of string $\setminus Z$ Word boundary \b Not word boundary \<, \> Word boundaries

POSIX Classes

Upper case letters :lower:>:lower: [:upper:]

Lower case letters :alpha:>:alpha:

All letters :alnum:>:alnum: Letters and digits :digit:>:digit:

Decimal / Hex digits :punct:>:punct: , [:xdigit:]

Punctuation:blank:>:blank:

Whitespace :cntrl:>:cntrl: [:space:]

Control characters :graph:>:graph:

Printable:word:>:word: [:print:]

Word characters

Character Classes

\c Control character

\s, \S Whitespace / not whitespace

\d, \D Digit / not digit

Word / not word \w, \W

 $\xspace \xspace \xsp$

Special Characters

\n Newline

Carriage return \r

۱t

Vertical tab \v

Form feed \f

Octal character \xxx

\xhh Hex character

Pattern Modifiers

Global match

Case-insensitive

Multi-line

Dot matches newline

x Allow whitespace/comments

e Evaluate replacement

Ungreedy

Assertions

(?=...) Lookahead

Negative lookahead (?!...)

(?<=...) Lookbehind

Negative lookbehind (?<!...)

Atomic group (?>...) Conditional (?()|)

(?...)Comment

Replacement Tokens

nth non-passive group \$n Match from group 1, 2 \$1, \$2

Before match \$' After match \$+ Last match

Entire match

Sample Patterns

```
([A-Za-z0-9-]+): Letters, numbers and hyphens
(1,2/1,2/4): Date format
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([] + (? = (jpg|gif|png))) : Imageextensions

([1-9][1-4][0-9][50): Number 1-50

(?([A-Fa-f0-9])3(([A-Fa-f0-9])3)?): Hex color((?=.*)(?=.*[a-z])(?=.*[A-Z]).8,15): Strong

password

(+@[a-zA-Z]+?[a-zA-Z]2,6):Email

((/?[]+)):HTMLtags