

Regex Cheatsheet

A detailed cheat sheet featuring numerous regex examples and explanations on how regex works. Explore literal matching, metacharacters, groups, lookahead/lookbehind, alternation, and practical patterns for emails, URLs, dates, and code extraction.



Basic Regex Patterns

Literal & Simple Patterns

Etteral & Simple Fatterns
/cat/ Matches the literal string "cat". Example: In "concatenate", finds "cat" at position 0.
/dog/ Matches the literal string "dog". Example: In "dogma", finds "dog" at the start.
/123/ Matches the literal number sequence "123". Example: In "abc123xyz", finds "123".
/hello/ Matches the literal word "hello". Example: In "well, hello there", finds "hello".
world Matches the literal word "world". Example: In "hello world", finds "world".
a.b The dot (.) matches any character (except newline), so it finds patterns like "acb" or "a-b".

Matches "Hello" only at the beginning of a string. Example: In "Hello there", matches at index O.
world\$ Matches "world" only at the end of a string. Example: In "Hello world", matches at the end.
Matches one or more digits at the start of a string. Example: In "123abc", matches "123".
/\w+\$/ Matches one or more word characters at the end of a string. Example: In "foo bar", matches "bar".
/^start/ Matches the literal word "start" at the beginning.
/end\$/ Matches the literal word "end" at the end.

Character Classes

/[abc]/ Matches any one of the characters: a, b, or c.
/[A-Z]/ Matches any uppercase letter.
/[0-9]/ Matches any digit from 0 to 9.
/[a-zA-Z]/ Matches any letter, regardless of case.
/[^0-9]/ Matches any character that is not a digit.
/[\s]/ Matches any whitespace character (space, tab, newline).

Quantifiers

a.b. he dot (.) matches any character (except newline), so it finds patterns like "acb" or "a-b".	/a*/ Matches zero or more occurrences of "a". Example: Matches "", "a", "aa", etc.
^Hello	/a+/ Matches one or more occurrences of "a". Example: Matches "a", "aa", but not "".
fatches "Hello" only at the beginning of a string. xample: In "Hello there", matches at index O.	/a?/ Matches zero or one occurrence of "a"
world\$ latches "world" only at the end of a string.	Example: Matches "" or "a".
xample: In "Hello world", matches at the end. ^\d+	/a{3}/ Matches exactly three "a" characters.
Natches one or more digits at the start of a string. xample: In "123abc", matches "123".	/a{2,}/ Matches two or more occurrences of "a".
/\w+\$/ latches one or more word characters at the end of a string. xample: In "foo bar", matches "bar".	/a{2,4}/ Matches between two and four occurrences of "a".
/^start/	

Advanced Regex Techniques

Grouping & Capturing	
/(cat)/ Captures the sequence "cat" into group 1. Useful for backreferences.	
/(dog cat)/ Matches either "dog" or "cat" and captures the match.	
$/(\d{3})-(\d{4})/$ Matches a pattern like a Social Security Number with three capturing groups.	
/(?P <area/> \d{3})/ Uses a named capturing group "area" to capture three digits.	
/(?:abc)/ A non-capturing group for the literal "abc"; grouping without storing the match.	
N1 Backreference to the first captured group. Ensures the same text is repeated.	

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Lookahead & Lookbehind

/(?=abc)/
Positive lookahead: Asserts that "abc" follows without consuming characters.

/(?!abc)/
Negative lookahead: Ensures that "abc" does not follow the current position.

/(?<=abc)def/
Positive lookbehind: Matches "def" only if preceded by "abc".

/(?<!abc)def/
Negative lookbehind: Matches "def" only if not preceded by "abc".

/foo(?=bar)/
Matches "foo" only if it is immediately followed by "bar".

/bar(?<!foo)/
Matches "bar" only if it is not immediately preceded by "foo".

Alternation & Escaping

/cat | dog/
Matches either "cat" or "dog" using alternation.

/a\+b/
Escapes the plus sign to match the literal string "a+b".

/\[abc\]/
Escapes square brackets to match the literal string "[abc]".

/\[\lambla\]/
Escapes the dot to match a literal period.

/\\\\/\\
Matches a single backslash character.

/(a|b)c/
Matches either "ac" or "bc" by grouping alternatives.

Practical Regex Examples

Email & URL Patterns

Email Pattern 1	/^[\w]+@[\w]+\.[A-Za-z]{2,6}\$/ Matches a standard email address format.
Email Pattern 2	/^[a-zA-Z0-9+-]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9]+\$/ A robust pattern for validating emails.
URL Pattern 1	/^(https?://)?(www\.)?[\w-]+\.[a-z] {2,}\$/ Matches basic URLs with optional http/https and www.
URL Pattern 2	/^(ftp http https):\/\/[\w]+(?:\. [\w\]+)+[\w\-\:/?# [\]@!\$&'()*+, ;=.]+\$/ A more comprehensive URL matching pattern.
Simple URL	/^(www\.)?[\w-]+\.[a-z]{2,}\$/ Matches URLs without protocol.
Email with mailto	/(mailto:)?[\w]+@[\w]+\.[A-Za-z] {2,6}/ Matches an email address with an optional "mailto:" prefix.

Date & Time Formats

ISO Date	/^\d{4}-\d{2}-\d{2}\$/ Matches dates in YYYY-MM-DD format.
US Date	/^\d{2}/\d{2}/\d{4}\$/ Matches dates in MM/DD/YYYY format.
European Date	/^\d{2}-\d{2}-\d{4}\$/ Matches dates in DD-MM-YYYY format.
24-Hour Time	/^\d{2}:\d{2}:\d{2}\$/ Matches time in HH:MM:SS format.
12-Hour Time	/^\d{1,2}:\d{2}(?:AM PM)\$/ Matches time in 12-hour format with AM/PM.
Day of Week	/^(Mon Tue Wed Thu Fri Sat Sun)\$/ Matches abbreviated days of the week.

Code Snippets & Extraction

Python Comment	/^\s*#.*\$/ Matches a Python comment line starting with '#'.
HTML Tag	/<\/?[a-zA-Z]+(\s+[a-zA-Z]+=" [^"]*")*\s*>/ Matches a simple HTML tag with optional attributes.
JS Console Log	/console\.log\(.*\);/ Matches a JavaScript console.log statement.
Python Function	/def\s+\w+\(.*\):/ Matches a Python function definition.
Java Main Method	/public\s+static\s+void\s+mai n\(.*\)/ Matches a Java main method signature.
TODO/FIXME Comment	/(TODO FIXME):.*/ Matches lines with TODO or FIXME comments.
JS Variable Declaration	/\b(?:var let const)\s+\w+\b / Matches variable declarations in JavaScript.

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