

or a date.

add complexity.

[\w.-]+@[\w.-]+\.\w+

characters.

EXCEL REGEX CHEAT SHEET



RegEx Video & Practice File: https://bit.ly/regex-excel

Step-by-step Guide for Writing Regular Expressions

Writing effective regular expressions involves understanding the specific patterns you need to match.

1. Identify the Text Pattern: Determine the specific text or structure you need to find. For example, an email address

2. Start Simple: Begin with a basic pattern and gradually

Example: To match a basic email address, start with the

3. Use Metacharacters and Classes: Incorporate special characters and classes to match more complex patterns.

This pattern matches an email address format, consisting of one or more word characters, dots, or hyphens, followed by an @ symbol, then one or more word characters, dots,

like regex101 to test your patterns against various strings

pattern for a sequence of word characters [\w]+

Example: An email address pattern can be:

or hyphens, a dot, and finally one or more word

4. Test and Refine: Use regex testing tools

Common RegEx Tokens

Description	Token
A single character of: `a`, `b`, or `c`	[abc]
A character except: `a`, `b`, or `c`	[^abc]
A character in the range: `a-z`	[a-z]
A character not in the range: `a-z`	[^a-z]
A character in the range: `a-z` or `A-Z`	[a-zA-Z]
Any single character	4
Alternate - match either `a` or `b`	a b
Any whitespace character	\s
Any non-whitespace character	\s
Any digit	\d
Any non-digit	\D
Any word character	\w
Any non-word character	W/
Match everything enclosed	(?:)
Capture everything enclosed	()
Zero or one of `a`	a?
Zero or more of `a`	a*
One or more of `a`	a+
Exactly 3 of `a`	a{3}
3 or more of `a`	a{3,}
Between 3 and 6 of `a`	a{3,6}
Start of string	^
End of string	Ş
A word boundary	\b
Non-word boundary	\B

Excel REGEX Function Arguments

Text: the input text string.

and refine them as needed.

Pattern: the regular expression pattern to extract.

Return mode: Optional. Determines the return format:

- 0: First match (default)
- 1: Multiple matches as an array
- 2: Groupings for the first match as an array Ignore case: Optional. If TRUE (default), the match is case-

insensitive.

Replacement: The replacement text.

Occurrence: Optional. Determines which occurrences are replaced:

€Z **REGEXREPLACE-** Replaces substrings matching a specified pattern with a replacement string.

Syntax: =REGEXREPLACE(text, pattern, replacement, [occurrence], [ignore_case])

Example 1: Redact the first 6 digits of a phone number.

=REGEXREPLACE("My phone number is 123-456-7890", "\d{3}-\d{3}", "XXX-XXX")

Returns: My phone number is XXX-XXX-7890

Example 1: Replace the first 5 digits of a Social Security Number (SSN) with asterisks



0: All occurrences (default) n: nth occurrence from the start -n: nth occurrence from the end

=REGEXREPLACE("My SSN is 123-45-6789", "\d{3}-\d{2}", "*-")

Returns: "My SSN is *--6789"

REGEXEXTRACT – Extract substrings that match a specified pattern from the input text.

Syntax: =REGEXEXTRACT(text, pattern, [return_mode], [ignore_case])

Example 1: Extract the domain name from a URL

=REGEXEXTRACT("https://www.MyOnlineTrainingHub.com/blog", "(?<=//)(?:www\.)?([^/]+)")

Returns: www.MyOnlineTrainingHub.com

Example 2: extract the email address from the text in the referenced cell, regardless of where the email exists in the text string.

=REGEXEXTRACT("Contact support@example.com", "[\w.-]+@[\w.-]+\.\w+")

Returns: support@example.com

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REGEXTEST – Test if a text string matches a specified pattern

Syntax: =REGEXTEST(text, pattern, [ignore_case])

Example 1: Test if a text string is present

=REGEXTEST("Hello World", "world")

This will return TRUE because the function ignores case by default.

Example 2: Validate whether a string is a correctly formatted email address.

=REGEXTEST("user@example.com", "^[\w.-]+@[\w.-]+\.\w+\$")

Returns: TRUE

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