

Character	Function	Example
literal characters	Directly matches characters	<div>"cat"</div> <ul style="list-style-type: none">• "cat"• "dog" (no match)
<div>\d</div>	Matches a digit from 0 to 9	<div>"\d"</div> <ul style="list-style-type: none">• "1"• "A" (no match)• "_" (no match)• "!" (no match)• " " (no match)
<div>\D</div>	Matches a non-digit	<div>"\D"</div> <ul style="list-style-type: none">• "1" (no match)• "A"• "_"• "!"• " "

<div>\w</div>	<p>Matches a word character (letter, digit, or underscore)</p>	<div>\w</div> <ul style="list-style-type: none"> • "1" • "A" • " " • "!" (no match) • " " (no match)
<div>\W</div>	<p>Matches any non-word character</p>	<div>\W</div> <ul style="list-style-type: none"> • "1" (no match) • "A" (no match) • " _" (no match) • "!" • " "
<div>\s</div>	<p>Matches any whitespace character, such as spaces and tabs</p>	<div>\s</div> <ul style="list-style-type: none"> • "1" (no match) • "A" (no match) • " _" (no match) • "!" (no match) • " "

`\S`

Matches any non-whitespace character

`\S`

- `"1"`
- `"A"`
- `"_"`
- `"!"`
- `" "` (no match)

`[...]`

Character Set

Matches any characters inside the brackets. Can specify ranges of characters as well.

`"[A-C]"`

- `"A"`
- `"B"`
- `"C"`
- `"D"` (no match)
- `"E"` (no match)

`[^ ...]`

Negative Character Set

Matches anything *not* inside the brackets

`"[^C-E]"`

- `"A"`
- `"B"`
- `"C"` (no match)
- `"D"` (no match)
- `"E"` (no match)



Wildcard

Matches any character (except a newline)

"."

- "1"
- "A"
- "_"
- "!"
- "\""



Matches 0 or more times

"ca*t"

- "ct"
- "cat"
- "caat"
- "caaat"
- "caaaat"



Matches 1 or more times

"ca+t"

- "ct"
- "cat"
- "caat"
- "caaat"
- "caaaat"

?

Matches 0 or 1 time

"ca?t"

- "ct"
- "cat"
- "caat"
- "caaat"
- "caaaat"

{#}

Matches a specific number of times

"ca{2}t"

- "ct"
- "cat"
- "caat"
- "caaat"
- "caaaat"

{#,}

Matches at least a specific number of times

"ca{2,}t"

- "ct"
- "cat"
- "caat"
- "caaat"
- "caaaat"

{#, #}

Matches within a specific range of times

"ca{2,3}t"

- "ct"
- "cat"
- "caat"
- "caaat"
- "caaaat"

|

Alternation

Matches either the expression before or the expression after

"cat|dog"

- "cat"
- "dog"
- "bird"

^

Start of the string

"^cat"

- "cat"
- "catsup"
- "concatenate" (no match)
- "kitty-cat" (no match)

<div>\$</div>	<p>End of the string</p>	<div>"cat\$"</div> <ul style="list-style-type: none"> • "cat" • "catsup" (no match) • "concatenate" (no match) • "kitty-cat"
<div></code></div>	<p>Escape Character</p> <p>Escapes the next character to be treated as a literal character</p>	<div>"\\$"</div> <ul style="list-style-type: none"> • "\$"
<div>(...)</div>	<p>Capture Group</p> <p>Identifies matches that should be extracted</p>	<div>"c(at)"</div> <ul style="list-style-type: none"> • "cat" ("at" is captured) • "bat" (no match)
<div>(?: ...)</div>	<p>Non-Capturing Group</p> <p>Identifies matches that should not be extracted</p>	<div>"c(?:at)"</div> <ul style="list-style-type: none"> • "cat" ("c" is captured) • "bat" (no match)
<div>(?! ...)</div>	<p>Negative Lookahead Group</p> <p>Identifies expressions that negate earlier matches</p>	<div>"cat(?! burglar)"</div> <ul style="list-style-type: none"> • "cat" • "cats" • "cat burglar" (no match)