

Credit card (any major)

Match any major credit card brand.

```
^(?:4\d{12}(?:\d{3})?|(?:(?:5[1-5]\d{2}|222[1-9]|22[3-9]\d|2[3-6]\d{2}|27[01]\d|2720)\d{12}|3[47]\d{13}|6(?:011|5\d{2}|4[4-9]\d|22[1-9]\d{2})\d{12}|(?:508[5-9]|6069|607[0-9]|608[0-7]|6521|6522)\d{12}))$
```

Token-by-token breakdown

Token	Meaning
^	start of string (or line in multiline mode)
(?:	start of a non-capturing group
4	literal text "4"
\d{12}	exactly 12 times: digit (0–9)
(?:	start of a non-capturing group
\d{3}	exactly 3 times: digit (0–9)
)?	end of group, optional (zero or one)
	OR — try the alternative
(?:	start of a non-capturing group
5	literal text "5"
[1-5]	any of: 1–5
\d{2}	exactly 2 times: digit (0–9)
	OR — try the alternative
222	literal text "222"
[1-9]	any of: 1–9
	OR — try the alternative
22	literal text "22"
[3-9]	any of: 3–9
\d	any digit (0–9)
	OR — try the alternative
2	literal text "2"
[3-6]	any of: 3–6
\d{2}	exactly 2 times: digit (0–9)
	OR — try the alternative
27	literal text "27"
[01]	any of: "0", "1"
\d	any digit (0–9)

Token	Meaning
	OR — try the alternative
2720	literal text "2720"
)	end of group
\d{12}	exactly 12 times: digit (0–9)
	OR — try the alternative
3	literal text "3"
[47]	any of: "4", "7"
\d{13}	exactly 13 times: digit (0–9)
	OR — try the alternative
6	literal text "6"
(?:	start of a non-capturing group
011	literal text "011"
	OR — try the alternative
5	literal text "5"
\d{2}	exactly 2 times: digit (0–9)
	OR — try the alternative
4	literal text "4"
[4-9]	any of: 4–9
\d	any digit (0–9)
	OR — try the alternative
22	literal text "22"
[1-9]	any of: 1–9
\d{2}	exactly 2 times: digit (0–9)
)	end of group
\d{12}	exactly 12 times: digit (0–9)
	OR — try the alternative
(?:	start of a non-capturing group
508	literal text "508"
[5-9]	any of: 5–9
	OR — try the alternative
6069	literal text "6069"
	OR — try the alternative
607	literal text "607"
[0-9]	any of: digits
	OR — try the alternative
608	literal text "608"

Token	Meaning
[0-7]	any of: 0–7
	OR — try the alternative
6521	literal text “6521”
	OR — try the alternative
6522	literal text “6522”
)	end of group
\d{12}	exactly 12 times: digit (0–9)
)	end of group
\$	end of string (or line in multiline mode)

Quick usage in 7 languages

JavaScript	<pre>const re = /^(?:4\d{12}(?:\d{3})? (?5[1-5]\d{2} 22[1-9] 22[3-9]\d 2[3-6]\d{2} 27[01]\d 2720)\d{12} 3[47]\d{13} 6(?:011 5\d{2} 4[4-9]\d 22[1-9]\d{2})\d{12} (?:508[5-9] 6069 607[0-9] 608[0-7] 6521 6522)\d{12})\$/; re.test(value);</pre>
Python	<pre>import re re.match(r"^(?:4\d{12}(?:\d{3})? (?5[1-5]\d{2} 22[1-9] 22[3-9]\d 2[3-6]\d{2} 27[01]\d 2720)\d{12} 3[47]\d{13} 6(?:011 5\d{2} 4[4-9]\d 22[1-9]\d{2})\d{12} (?:508[5-9] 6069 607[0-9] 608[0-7] 6521 6522)\d{12})\$", value)</pre>
Java	<pre>Pattern.compile("(?:4\d{12}(?:\d{3})? (?5[1-5]\d{2} 22[1-9] 22[3-9]\d 2[3-6]\d{2} 27[01]\d 2720)\d{12} 3[47]\d{13} 6(?:011 5\d{2} 4[4-9]\d 22[1-9]\d{2})\d{12} (?:508[5-9] 6069 607[0-9] 608[0-7] 6521 6522)\d{12})\$").matcher(value).matches();</pre>
C# / .NET	<pre>Regex.IsMatch(value, @"^(?:4\d{12}(?:\d{3})? (?5[1-5]\d{2} 22[1-9] 22[3-9]\d 2[3-6]\d{2} 27[01]\d 2720)\d{12} 3[47]\d{13} 6(?:011 5\d{2} 4[4-9]\d 22[1-9]\d{2})\d{12} (?:508[5-9] 6069 607[0-9] 608[0-7] 6521 6522)\d{12})\$");</pre>
Go	<pre>regexp.MustCompile(`^(?:4\d{12}(?:\d{3})? (?5[1-5]\d{2} 22[1-9] 22[3-9]\d 2[3-6]\d{2} 27[01]\d 2720)\d{12} 3[47]\d{13} 6(?:011 5\d{2} 4[4-9]\d 22[1-9]\d{2})\d{12} (?:508[5-9] 6069 607[0-9] 608[0-7] 6521 6522)\d{12})\$`).MatchString(value)</pre>
Ruby	<pre>/^(?:4\d{12}(?:\d{3})? (?5[1-5]\d{2} 22[1-9] 22[3-9]\d 2[3-6]\d{2} 27[01]\d 2720)\d{12} 3[47]\d{13} 6(?:011 5\d{2} 4[4-9]\d 22[1-9]\d{2})\d{12} (?:508[5-9] 6069 607[0-9] 608[0-7] 6521 6522)\d{12})\$/ .match?(value)</pre>
PHP	<pre>preg_match('~^(?:4\d{12}(?:\d{3})? (?5[1-5]\d{2} 22[1-9] 22[3-9]\d 2[3-6]\d{2} 27[01]\d 2720)\d{12} 3[47]\d{13} 6(?:011 5\d{2} 4[4-9]\d 22[1-9]\d{2})\d{12} (?:508[5-9] 6069 607[0-9] 608[0-7] 6521 6522)\d{12})\$~', \$value);</pre>

Common pitfalls

- **Anchored to the whole string.** This pattern uses ^ and \$, so it requires the entire input to match. To find it inside a longer text, drop the anchors and use the global (g) flag.
- **Escape it correctly per language.** In Java and JavaScript strings each backslash must be doubled (\\d); in Python, Go, and C# use raw/verbatim strings so the backslashes survive.
- **Validate beyond format.** Matching the format doesn't guarantee the value is real. Confirm the credit card (any major) against a source of truth (database, API, or checksum) where it matters.