

URL query parameter

key=value query parameter.

```
(?:^|[\?&])([^\=&]+)=([^\&]*)
```

Token-by-token breakdown

Token	Meaning
(?:	start of a non-capturing group
^	start of string (or line in multiline mode)
	OR — try the alternative
[\?&]	any of: "?", "&"
)	end of group
(	start of a capturing group
[^\=&]+	one or more: any character except "=", "&"
)	end of group
=	literal text "="
(	start of a capturing group
[^\&]*	zero or more: any character except "&"
)	end of group

Quick usage in 7 languages

JavaScript	<pre>const re = /(?:^ [\?&])([^\=&]+)=([^\&]*)/; re.test(value);</pre>
Python	<pre>import re re.match(r"(?:^ [\?&])([^\=&]+)=([^\&]*)", value)</pre>
Java	<pre>Pattern.compile("(?:^ [\?&])([^\=&]+)=([^\&]*)").matcher(value).matches();</pre>
C# / .NET	<pre>Regex.IsMatch(value, @"(?:^ [\?&])([^\=&]+)=([^\&]*)");</pre>
Go	<pre>regexp.MustCompile(`(?:^ [\?&])([^\=&]+)=([^\&]*)`).MatchString(value)</pre>
Ruby	<pre>/(?:^ [\?&])([^\=&]+)=([^\&]*)/.match?(value)</pre>
PHP	<pre>preg_match('~(?:^ [\?&])([^\=&]+)=([^\&]*)~', \$value);</pre>

Common pitfalls

- **Not anchored.** Without ^ and \$ this can match a substring anywhere in the input — add anchors if you need the whole value to conform.
- **Validate beyond format.** Matching the format doesn't guarantee the value is real. Confirm the url query parameter against a source of truth (database, API, or checksum) where it matters.