

User-Agent

The **User-Agent** [request header](#) is a characteristic string that lets servers and network peers identify the application, operating system, vendor, and/or version of the requesting [user agent](#).

Warning: Please read [Browser detection using the user agent](#) for why serving different Web pages or services to different browsers is usually a bad idea.

Header type	Request header
Forbidden header name	no

Syntax

HTTP
<code>User-Agent: <product> / <product-version> <comment></code>

Common format for web browsers:

HTTP
<code>User-Agent: Mozilla/5.0 (<system-information>) <platform> (<platform-details>) <extensions></code>

Directives

- <product>
- A product identifier — its name or development codename.
- <product-version>
- Version number of the product.
- <comment>
- Zero or more comments containing more details. For example, sub-product information.

Firefox UA string

For more on Firefox- and Gecko-based user agent strings, see the [Firefox user agent string reference](#). The UA string of Firefox is broken down into 4 components:

Mozilla/5.0 (platform; rv:geckoversion) Gecko/geckotrail Firefox/firefoxversion

- Mozilla/5.0 is the general token that says that the browser is Mozilla-compatible. For historical reasons, almost every browser today sends it.
- platform** describes the native platform that the browser is running on (Windows, Mac, Linux, Android, etc.) and if it is a mobile phone. [Firefox OS](#) phones say `Mobile` — the web is the platform. Note that **platform** can consist of multiple " ; "-separated tokens. See below for

further details and examples.

3. **rv:geckoversion** indicates the release version of Gecko (such as "17.0"). In recent browsers, **geckoversion** is the same as **firefoxversion**.
4. **Gecko/geckotrail** indicates that the browser is based on Gecko. (On the desktop, **geckotrail** is always the fixed string 20100101.)
5. **Firefox/firefoxversion** indicates that the browser is Firefox and provides the version (such as "17.0").

Examples

Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:47.0) Gecko/20100101 Firefox/47.0

Mozilla/5.0 (Macintosh; Intel Mac OS X x.y; rv:42.0) Gecko/20100101 Firefox/42.0

Chrome UA string

The Chrome (or Chromium/Blink-based engines) user agent string is similar to Firefox's. For compatibility, it adds strings like KHTML, like Gecko and Safari.

Examples

Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36

Opera UA string

The Opera browser is also based on the Blink engine, which is why it almost looks the same as the Chrome UA string, but adds "OPR/<version>".

Examples

Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.106 Safari/537.36 OPR/38.0.2220.41

Older, Presto-based Opera releases used:

Opera/9.80 (Macintosh; Intel Mac OS X; U; en) Presto/2.2.15 Version/10.00

Opera/9.60 (Windows NT 6.0; U; en) Presto/2.1.1

Microsoft Edge UA string

The Edge browser is also based on the Blink engine. It adds "Edg/<version>".

Examples

Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36 Edg/91.0.864.59

Safari UA string

In this example, the user agent string is mobile Safari's version. It contains the word "Mobile".

Examples

Mozilla/5.0 (iPhone; CPU iPhone OS 13_5_1 like Mac OS X) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/13.1.1 Mobile/15E148 Safari/604.1

Crawler and bot UA strings

Examples

Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)

Mozilla/5.0 (compatible; YandexAccessibilityBot/3.0; +http://yandex.com/bots)

Library and net tool UA strings

Examples

curl/7.64.1

PostmanRuntime/7.26.5

Specifications

Specification
HTTP Semantics
field.user-agent

Browser compatibility

[Report problems with this compatibility data on GitHub](#)

	Chrome	Edge	Firefox	Opera	Safari	Chrome Android	Firefox for Android	Opera Android	
User-Agent	Chrome Yes	Edge 12	Firefox Yes	Opera Yes	Safari Yes	Chrome Yes Android	Firefox Yes for Android	Opera Yes Android	Si i

Tip: you can click/tap on a cell for more information.

Full support

See also

- [User-Agent detection, history and checklist](#)
- [Firefox user agent string reference](#)
- [Browser detection using the user agent](#)
- [Client hints](#)

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