URLs in JavaScript

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What is a URL

The location API

Let's code a redirection browser extension

What is a URL

Examples of URLs

```
http://www.example.com/index.html
https://github.com/
ftp://internet.address.edu/file/path/file.txt
whatsapp://send?text=Hello%2C%20World!
mailto:contact@myname.com
```

Example

https://en.film.com: 443/main/func/search.php? text=manhattan&genre=comedy # cast

Example

```
https:// en.film.com :443 /main/func/search.php ?text=manhattan&genre=comedy #cast
```

Explaination

· Protocol/scheme* Examples: http, https, ftp, mailto, tel, chrome.

^{*:} Mandatory.

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- Domain name* An IP address can be used instead.

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- Domain name* An IP address can be used instead.
- Port Default :80 for http. default :443 for https.

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- · Path Traditionally physical; now, mostly an abstraction by web servers.
- Parameters/query/search &-separated key/value pairs.
- Fragment/hash Client side; does not get sent with the request; Browsers scroll to position.

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URL Encoding

Encoding table

space	!	#	\$	%	&	,	()	*
%20	%21	%23	%24	%25	%26	%27	%28	%29	%2A
+	,	/	:	;	=	?	@	[]
%2B	%2C	%2F	%3A	%3B	%3D	%3F	%40	%5B	%5D

Use

encodeURIComponent().

Example:

https://wa.me/155555555555text=I%27d%20like%20to%20chat%20with%20you

The location API

Example

```
http:// en.film.com :80 /1979 ?text=manhattan&genre=comedy #cast
```

Properties

· location.protocol: "https:".

Example

```
http:// en.film.com :80 /1979 ?text=manhattan&genre=comedy #cast
```

Properties

- · location.protocol: "https:".
- · location.hostname: "en.film.com".

*: not reactive.

Example

```
http:// en.film.com :80 /1979 ?text=manhattan&genre=comedy #cast
```

Properties

- · location.protocol: "https:".
- · location.hostname: "en.film.com".
- · location.port: "80".

Example

```
http:// en.film.com :80 /1979 ?text=manhattan&genre=comedy #cast
```

Properties

- · location.protocol: "https:".
- · location.hostname: "en.film.com".
- · location.port: "80".
- · location.path*: "/1979".

Example

```
http:// en.film.com :80 /1979 ?text=manhattan&genre=comedy #cast
```

Properties

- · location.protocol: "https:".
- · location.hostname: "en.film.com".
- · location.port: "80".
- · location.path*: "/1979".
- location.search: "?text=manhattan&genre=comedy". Can be used in conjunction with URLSearchParams.

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Example

```
http:// en.film.com :80 /1979 ?text=manhattan&genre=comedy #cast
```

Properties

- · location.protocol: "https:".
- · location.hostname: "en.film.com".
- · location.port: "80".
- · location.path*: "/1979".
- location.search: "?text=manhattan&genre=comedy". Can be used in conjunction with URLSearchParams.
- · location.hash: "#cast".

*: not reactive.

window.location Methods

location.assign(): load a URL.

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- location.assign(): load a URL.
- · location.reload(Boolean): reload from server or cache based on boolean passed.

window.location Methods

- location.assign(): load a URL.
- $\cdot \ \textbf{location.reload(Boolean)} : \ \textbf{reload from server or cache based on boolean passed}.$
- · location.replace(): similar to .assign but without history.

Let's code a redirection browser

extension

Dependencies

- · Tampermonkey extension: <u>chromium</u>, <u>firefox</u>.
- · JavaScript.

```
// ==UserScript==
// aname
                 Wikipedia mobile
// @description
                 Redirect to mobile version of wikipedia
// amatch
                 https://en.wikipedia.org/*
// @run-at
                 document-start
// ==/UserScript==
(function() {
    'use strict':
     if (location.hostname === 'en.wikipedia.org') {
       location.hostname = 'en.m.wikipedia.org';
})();
```

Do you wish to add anything?

you can find the slides at: $\underline{\text{https://github.com/aliveupstairs/talks}}$

Thank You