

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%20World!`

The Anatomy of a URL

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

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

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

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- Parameters/query/search & separated key/value pairs.
- Fragment/hash Client side; does not get sent with the request; Browsers scroll to position.

URL Encoding

space	!	#	\$	%	&	'	()	*
%20	%21	%23	%24	%25	%26	%27	%28	%29	%2A

+	,	/	:	;	=	?	@	[]
%2B	%2C	%2F	%3A	%3B	%3D	%3F	%40	%5B	%5D

Example:

`https://wa.me/1555555555?text=I%27d%20like%20to%20chat%20with%20you`

The location API

window.location Properties

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

- location.protocol: "https:".

window.location Properties

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

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

window.location Properties

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

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

window.location Properties

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

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

window.location Properties

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

- `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`.

window.location Properties

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

- `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".

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- `location.reload(Boolean)`: reload from server or cache based on boolean passed.
- `location.replace()`: similar to `.assign` but without history.

Let's code a redirection browser
extension

- Tampermonkey extension: chromium, firefox.
- JavaScript.

Script code

```
// ==UserScript==  
// @name      Wikipedia mobile  
// @description Redirect to mobile version of wikipedia  
// @match     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: <https://github.com/aliveupstairs/talks>

Thank You