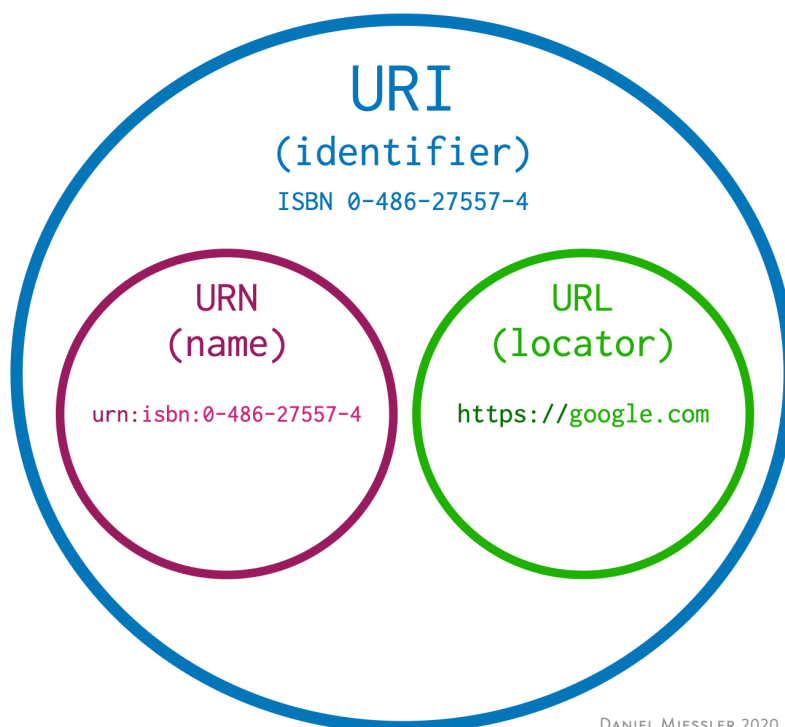


# Brower URL

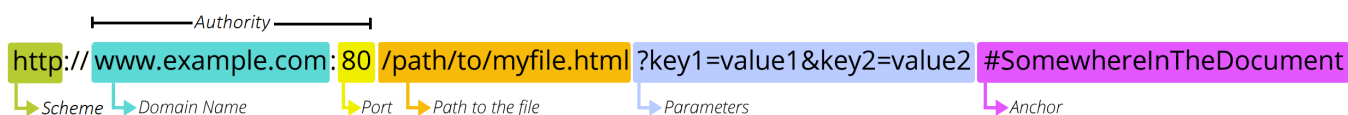
## AGENDA

1. What is URL
2. URLSearchParams
3. Location
4. History API



Source: <https://danielmiessler.com/study/difference-between-uri-url/>

## 1. What is URL



Source: [https://developer.mozilla.org/en-US/docs/Learn/Common\\_questions/What\\_is\\_a\\_URL](https://developer.mozilla.org/en-US/docs/Learn/Common_questions/What_is_a_URL)

Create a new URL object

```
const url = new URL('https://ezfrontend.com/blog?page=1&limit=10#title');
console.log(url);
```

```
> const url = new URL('https://ezfrontend.com/blog?page=1&limit=10#title');
< undefined
> url
< ▼ URL {origin: 'https://ezfrontend.com', protocol: 'https:', username: '', password: '', host: 'ezfrontend.com', ...} ⓘ
  hash: "#title"
  host: "ezfrontend.com"
  hostname: "ezfrontend.com"
  href: "https://ezfrontend.com/blog?page=1&limit=10#title"
  origin: "https://ezfrontend.com"
  password: ""
  pathname: "/blog"
  port: ""
  protocol: "https:"
  search: "?page=1&limit=10"
  ▶ searchParams: URLSearchParams {}
  username: ""
  ▶ [[Prototype]]: URL
```

## 2. URLSearchParams

```
const params = new URLSearchParams('?_page=1&_limit=10');
// leading question mark will be ignored
```

#	Name	Desc
1	get(key)	get value of a <b>key</b> , return <b>null</b> if not found
2	set(key, value)	add new/override value of a key
3	delete(key)	remove a key
4	append(key, value)	add new key/value (even it's existed already)
4	has(key)	check if key is available, return true/false
5	toString()	convert to query string
6	...	

```
const params = new URLSearchParams('?_page=1&_limit=10');

params.get('_page'); // 1
params.get('_limit'); // 10
params.get('_order'); // null

params.set('_page', 2);
params.toString(); // _page=2&_limit=10

params.append('_page', 3);
params.toString(); // _page=2&_limit=10&_page=3

params.has('_page'); // true
params.has('_order'); // false
```

Source: <https://developer.mozilla.org/en-US/docs/Web/API/URLSearchParams>

### 3. Location

```
window.location;
```

```
> window.location
< Location {ancestorOrigins: DOMStringList, href: 'https://developer.mozilla.org/en-US/docs/Learn/Common_questions/What_is_a_URL', origin: 'https://developer.mozilla.org', protocol: 'https:', host: 'developer.mozilla.org', ...}
  ▶ ancestorOrigins: DOMStringList {length: 0}
  ▶ assign: f assign()
    hash: ""
    host: "developer.mozilla.org"
    hostname: "developer.mozilla.org"
    href: "https://developer.mozilla.org/en-US/docs/Learn/Common_questions/What_is_a_URL"
    origin: "https://developer.mozilla.org"
    pathname: "/en-US/docs/Learn/Common_questions/What_is_a_URL"
    port: ""
    protocol: "https:"
  ▶ reload: f reload()
  ▶ replace: f replace()
    search: ""
  ▶ toString: f toString()
  ▶ valueOf: f valueOf()
  Symbol(Symbol.toPrimitive): undefined
  ▶ [[Prototype]]: Location
```

	href	replace()	assign()
Type	property (get/set)	method	method
Get	current URL	N/A	N/A
Add to history list	YES	NO	YES
Delete current page from history	NO	YES	NO
When to use	get current URL	replace URL	navigate to new URL

```
// get current URL
window.location.href;

// replace current page with new URL (not able to go back)
window.location.replace('https://ezfrontend.com');

// navigate to new URL
window.location.assign('https://ezfrontend.com');
```

Source: <https://www.geeksforgeeks.org/difference-between-window-location-href-window-location-replace-and-window-location-assign-in-javascript/>

## 4. History API

- Provide access to browser's session history.
- You can navigate back and forth through the user's history

```
window.history.back();  
window.history.forward();
```

Source: [https://developer.mozilla.org/en-US/docs/Web/API/History\\_API](https://developer.mozilla.org/en-US/docs/Web/API/History_API)

## Tham khảo

- <https://www.keycdn.com/blog/difference-between-http-and-https>
- [https://developer.mozilla.org/en-US/docs/Web/API/URL\\_API](https://developer.mozilla.org/en-US/docs/Web/API/URL_API)
- [https://developer.mozilla.org/en-US/docs/Learn/Common\\_questions/What\\_is\\_a\\_URL](https://developer.mozilla.org/en-US/docs/Learn/Common_questions/What_is_a_URL)

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## Khoá học Javascript cho người mới bắt đầu 2021 🎉

- Tác giả: **Hậu Nguyễn** - Founder Easy Frontend
- Khoá học chỉ được published trên Udemy, không thông qua trung gian.
- Khoá học không bán dạng videos upload trên Google Drive hay bất cứ hình thức nào tương tự.
- Khoá học có nhóm discord để hỗ trợ trong quá trình học tập.

☎️ Liên hệ tác giả để được hỗ trợ:

- ✅ Facebook: <https://www.facebook.com/nvhauesmn/>
- ✅ Fanpage: <https://www.facebook.com/learn.easyfrontend>
- ✅ Youtube Channel: <https://www.youtube.com/easyfrontend>