

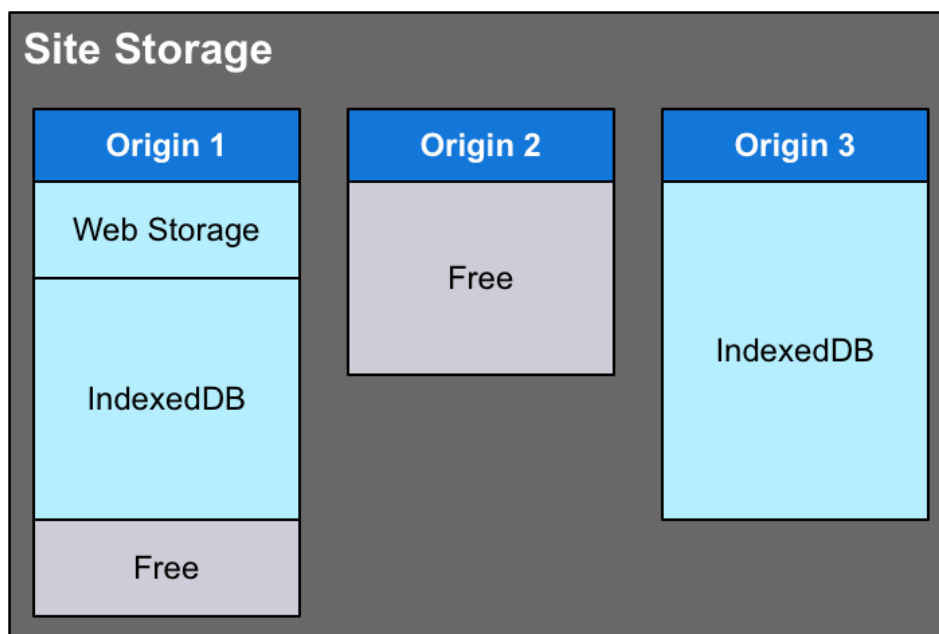
Storage API

AGENDA

1. Site storage
2. Storage
3. localStorage
4. sessionStorage
5. cookies

1. Site storage

- Site storage has many site storage unit.
- Each site storage unit represents for one [origin](#).
- This origin **can't** get another origin's storage.



Site storage includes:

- localStorage
- sessionStorage
- cookies
- Cache API data
- IndexedDB database
- Service Worker registrations
- History state information
- Notification data
- ...

Source: https://developer.mozilla.org/en-US/docs/Web/API/Storage_API

2. Storage Interface

#	Name	Desc
1	Storage.getItem(key)	Get value of key , return null if not exists
2	Storage.setItem(key, value)	Set value for key
3	Storage.removeItem(key)	Remove an item
4	Storage.clear()	Clear all items

3. localStorage

- The Storage object for the Document's origin.
- The stored data is saved across browser sessions.
- In private browsing / incognito mode, localStorage will be cleared if the private window is closed.
- key/value should be a string.

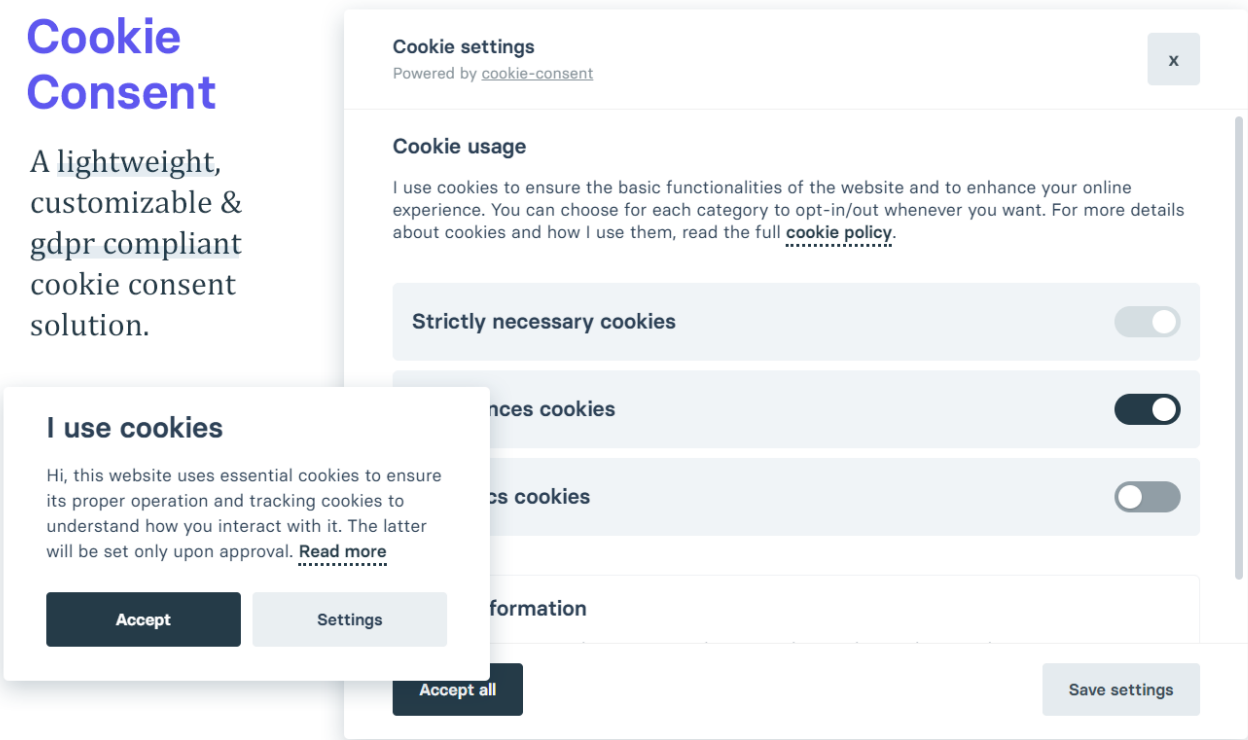
```
localStorage.setItem('name', 'Easy Frontend');  
localStorage.getItem('name'); // Easy Frontend  
  
localStorage.removeItem('name');  
localStorage.getItem('name'); // null
```

4. sessionStorage

- The Storage object for the Document's origin.
- It's cleared when the tab closed.
- Each tab has a different sessionStorage.
- Duplicating a tab -> copy tab's sessionStorage
- Data stored in sessionStorage is specific to the protocol of the page. (http and https)

```
sessionStorage.setItem('name', 'Easy Frontend');  
sessionStorage.getItem('name'); // Easy Frontend  
  
sessionStorage.removeItem('name');  
sessionStorage.getItem('name'); // null
```

5. cookies



Source: <https://orestbida.com/blog/cookie-consent/>

Comparison

	cookies	localStorage	sessionStorage
Capacity	4kb	10mb	5mb
Accessible from	any window	any window	same tab
Expires	Manually set	Never	On tab close
Storage location	Browser and server	Browser only	Browser only
Sent with requests	Yes	No	No

Source: <https://www.freecodecamp.org/news/everything-you-need-to-know-about-cookies-for-web-development/>

Tham khảo

- <https://web.dev/storage-for-the-web/>
- https://developer.mozilla.org/en-US/docs/Web/API/Storage_API
- <https://www.osano.com/articles/cookie-consent-requirements>

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>
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