

W07 - Web Storage (localStorage)

What is the Web Storage?

- The API is a set of mechanisms enabling browsers to store key/value pairs
- more intuitive than using cookies

Difference between sessionStorage and localStorage

- sessionStorage - maintains storage area while browser is open
- localStorage - continues to store data after the browser is closed.

localStorage in JavaScript - property allowing JavaScript sites and apps to save key-value pairs. The data persists

localStorage location - SQLite folders

chrome {
 mac - ~/Library/Application Support/Google/Chrome/Default/2
 local Storage
 windows - \AppData\Local\Google\Chrome\User\Data\Default\Local Storage

Window.localStorage is part of the window interface.

The window interface has a range of functions, constructors, objects, and namespaces

FIVE METHODS

setItem(): add key and value to localStorage

getItem(): retrieve items from localStorage

removeItem(): remove an item by key from localStorage

clear(): clear all localStorage

key(): pass a number to retrieve a key

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SETITEM - takes two parameters: key and value

```
window.localStorage.setItem('name', 'Desmond Ob-La');
```

To store arrays or objects they first get converted to strings.

JSON.stringify() before passing to *setItem()*

```
const person = {  
  name: 'Desmond Ob-La',  
  location: 'Barrow in the marketplace'  
}
```

```
window.localStorage.setItem('user', JSON.stringify(person))
```

GET ITEM - accepts one parameter: key
returns value

```
window.localStorage.getItem('user');
```

↳ string value:

```
"{"name": "Desmond Ob-La", "location":  
  "Barrow in the marketplace"}"
```

convert back to object using *JSON.parse()*

```
JSON.parse(window.localStorage.getItem('user'));
```

REMOVEITEM - one parameter: key

deletes that key from storage if it exists

- if there is no key, the method won't do anything.

CLEAR - invoking *window.localStorage.clear()*; will delete the entire storage of all records for that domain.

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KEY - one parameter: index
retrieves name of key

```
const keyName = window.localStorage.key(index);  
                ↑  
            unnecessary
```