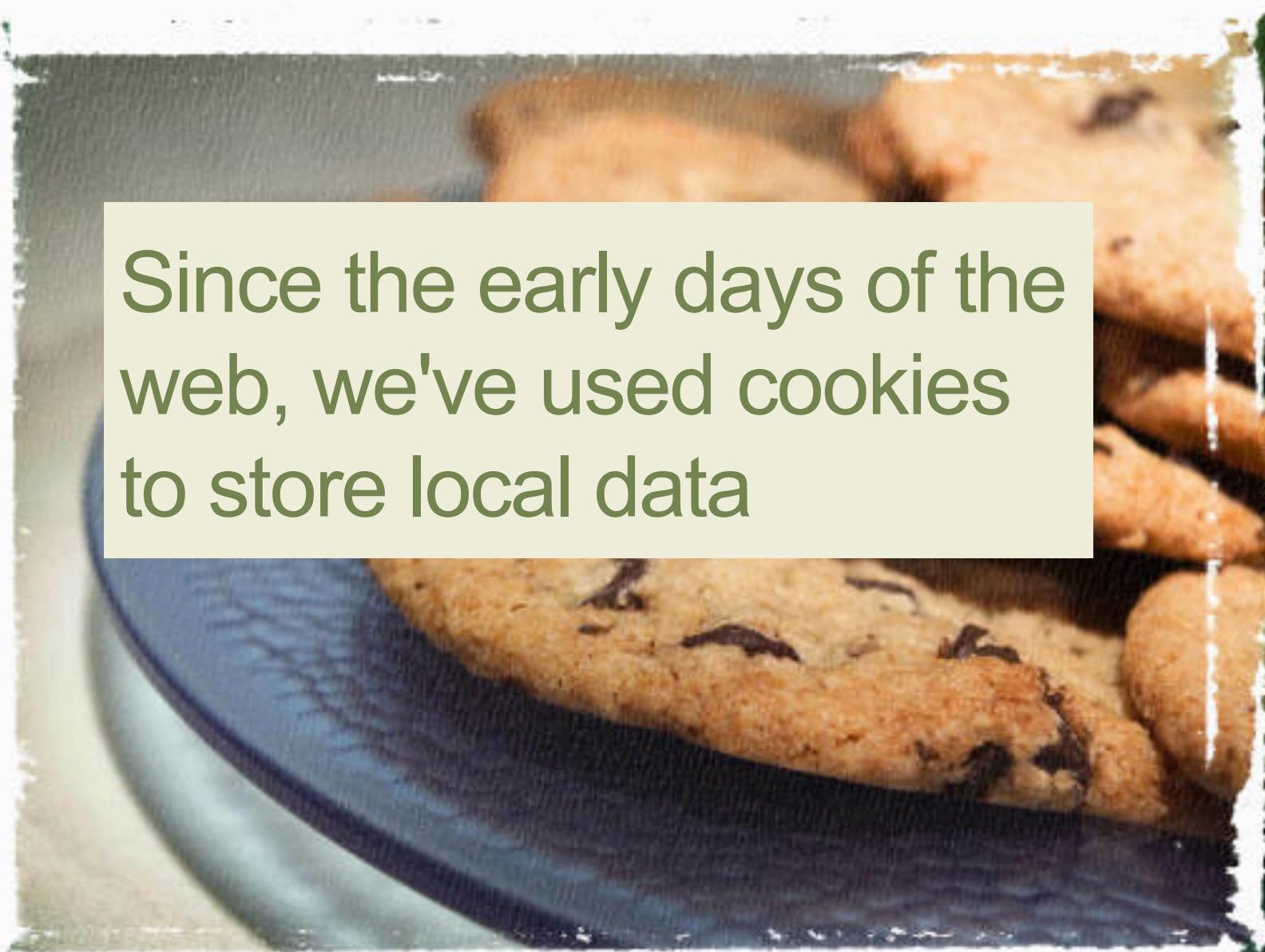


WEB STORAGE

Saving stuff on the browser instead of on the server



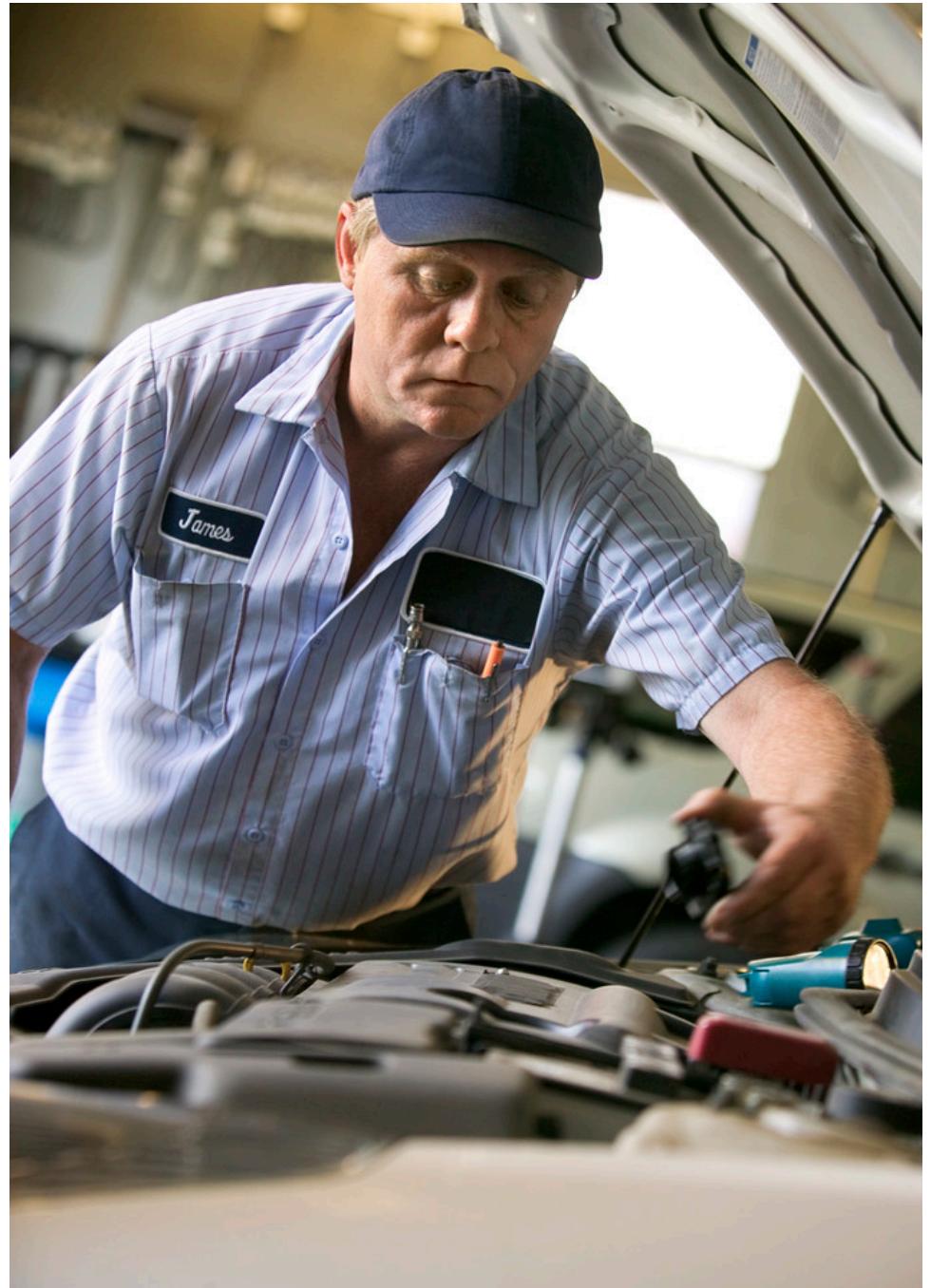
Since the early days of the web, we've used cookies to store local data

Cookies rock! (except when they don't)

Cookie are cool because they ...	Cookies are not so much because they ...
... relieve the server	... bloat the request
... are unique to a domain	... are vulnerable to sniffers
... persist even when the PC is powered down	... are limited to 4K each

Web storage fixes those issues

- Bloated request?
Vulnerable to sniffers?
No!
 - Data never rides the request
unless we want it to get
back to the server
- Limited to 4K each? No!
 - Local storage can take up to
10Mb



HTML



Web storage
came along
with HTML5

There are two types of web storage

- Session storage lasts until the session is over
 - The user closes the tab or browser
- Local storage lasts forever
 - Until you delete it
 - Until the user clears the cache

We should ensure the browser supports local storage before we read or write

```
if (typeof window.localStorage == 'undefined') {  
    console.log("Local storage isn't supported.");  
    //Fall back to cookies – blech!  
}  
else {  
    //Read and/or write local storage  
}
```

To write, use the `setItem()` method

```
function saveSomeStuffs(user) {  
  localStorage.setItem('username', user);  
  localStorage.setItem('lastLogin', new Date());  
}
```



To read, use the getItem() method

```
function readEmBack() {  
    user=localStorage.getItem('username');  
    lastLogin=localStorage.getItem('lastLogin');  
    outDiv.innerHTML = user +  
        " was last here " + lastLogin;  
}
```



Shortcuts to getItem() and setItem() are available

```
function saveSomeStuffs(user) {  
    localStorage[ 'username' ] = user;  
    localStorage[ 'lastLogin' ] = new Date();  
}  
  
function readEmBack() {  
    user=localStorage[ 'username' ];  
    lastLogin=localStorage[ 'lastLogin' ];  
    outDiv.innerHTML = user +  
        " was last here " + lastLogin;  
}
```

Once written,
the data stays
on the server
forever

- It is completely up to you to
- To remove a value:

```
window.localStorage.removeItem('username');
```

- To remove all values:

```
window.localStorage.clear();
```



Hands on local storage



Conclusion

- Web storage is like cookies on steroids
 - More storage
 - Less transit bloat
- We determine if it is supported by looking at the `localStorage` object
- Reading is done with `getItem()`
- Writing is done with `setItem()`
- Removing is done with `removeItem()`