

Client-side Storage



Bill Stavroulakis

MICROSOFT MVP - GOOGLE DEVELOPER EXPERT -
SOFTWARE DEVELOPER

@bstavroulakis bstavroulakis.com/blog



Cookies

Compatibility	Everywhere!
Size	4KB
Data-type	String
Pros	Simple, Configurable, Compatible
Cons	Less secure, Limiting, Attaches to requests, Easily deleted



HTML5 Web Storage

Compatibility	Everywhere!
Size	2.5-5MB
Data-type	String
Pros	Simple, Not transmitted, Compatible
Cons	Unstructured data, Slow access



WebSQL

Compatibility	Chrome, Safari, Opera, Strong mobile support
Size	2.5-5MB
Data-type	String
Pros	Asynchronous, Great search speed
Cons	Deprecated, Steep learning curve, Schema pre-defined



IndexedDB

Compatibility	Modern browsers
Size	10-20% of available space (browser specific)
Data-type	JS Object
Pros	Asynchronous, Large dataset
Cons	Steep learning curve, Complicated while implementing



Storage Options

Cookies (Very Limiting)

HTML5 Local Storage (Limited Size)

WebSQL (Deprecated)

IndexedDB (Limited Support)



Storage Options

~~Cookies (Very Limiting)~~

HTML5 Local Storage (Limited Size)

~~WebSQL (Deprecated)~~

IndexedDB (Limited Support)



The Offline Journey Begins



Application Cache Status

```
var appCache = window.applicationCache;
```

```
appCache.update();
```

```
appCache.addEventListener('cached', handleCacheEvent, false);  
appCache.addEventListener('checking', handleCacheEvent, false);  
appCache.addEventListener('downloading', handleCacheEvent, false);  
appCache.addEventListener('error', handleCacheError, false);  
appCache.addEventListener('noupdate', handleCacheEvent, false);  
appCache.addEventListener('obsolete', handleCacheEvent, false);  
appCache.addEventListener('progress', handleCacheEvent, false);  
appCache.addEventListener('updateready', handleCacheEvent, false);
```



The cache API is a cache object where request objects act as keys to their responses

<https://davidwalsh.name/cache>

