

# Quota Management API : Fast Facts



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**Warning:** This page is deprecated. Please see [Persistent Storage](#) instead.

There's various offline related features introduced to modern browsers through HTML5. While offline is convenient, its concept of quota has been left untouched for a long time. The latest version of Chrome browser has the first concept and its implementation of *Quota Management API*. It handles quota for AppCache, IndexedDB, WebSQL and File System API. Here's a list of things you should keep in mind when working with Quota Management API in the latest Chrome.

(The specific numbers and details noted below are not a part of HTML5 but the facts in the current Chrome implementation. The API and Quota management in Chrome is still evolving and the details may change over the time.)

- On HTML5 storage, there's a notion of TEMPORARY storage and PERSISTENT storage.
  - TEMPORARY storage can be used without requesting quota, but may be deleted at the browser's discretion.
  - PERSISTENT storage is never deleted without the user's instruction, but usually requires up-front quota request to use.
- For TEMPORARY storage, it is shared between all applications and websites run in the browser.
  - TEMPORARY storage has a default quota of 50% of available disk as a shared pool. (50GB => 25GB) (Not restricted to 1GB anymore)  
[To be more specific, TEMP quota is calculated by  $(\text{remaining disk space} + \text{TEMP storage space}) * 50\%$ . Therefore if apps are using 25GB TEMP storage in total and the current remaining disk space is 25GB that's already full.]
  - Each application has a limitation to have 20% of the available TEMPORARY storage pool (i.e. 20% of 50% of available disk). (Not restricted to 5Mb anymore)
  - When TEMPORARY storage quota is exceeded, *all the data (incl. AppCache, IndexedDB, WebSQL, File System API) stored for oldest used origin gets deleted*.  
[Note: since each app can only use up to 20% of the pool, this won't happen very frequently unless the user has more than 5 active offline apps.]

- If app tries to make a modification which will result in exceeding **TEMPORARY** storage quota (20% of pool), an error will be thrown.
- Each application can query how much data is stored or how much more space is available for the app by calling `queryUsageAndQuota()` method of Quota API.
- Requesting more quota against **TEMPORARY** storage doesn't do anything.
- Requesting quota for **TEMPORARY** storage using `webkitRequestFileSystem()` doesn't actually allocate / change quota.

```
webkitStorageInfo.queryUsageAndQuota( webkitStorageInfo.TEMPORARY, // or
PERSISTENT usageCallback, errorCallback);
```

- For **PERSISTENT** storage, its default quota is 0 and it needs to be explicitly requested per application using `requestQuota()` of Quota API.
  - The allocated space can be used only by File System API (for **PERSISTENT** type filesystem) and there's no such thing like **PERSISTENT** storage on *IndexedDB*, *WebSQL DB* or *AppCache* (yet).

```
webkitStorageInfo.requestQuota( webkitStorageInfo.PERSISTENT newQuotaInBytes,
quotaCallback, errorCallback);
```

- **unlimitedStorage** on manifest.json of Chrome Web App has been brought as a temporary solution for apps to work without Quota API. So, there's no guarantee that Chrome will support this feature forever.
- The API is described in WebIDL here:  
<https://groups.google.com/a/chromium.org/group/chromium-html5/msg/5261d24266ba4366?pli=1>

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