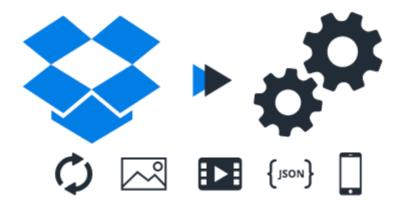


DropboxSync <u>Tutorial</u> Documentation

DropboxSync



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Retrieving files

GetFileAsBytes()

Asynchronously retrieves file from Dropbox as byte[].

Parameters

Parameter	Description
dropboxPath(string)	Path to file on Dropbox or inside of Dropbox App folder (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder/image.jpg
<pre>onResult (Action<dropboxrequestresult<byte[]>>)</dropboxrequestresult<byte[]></pre>	Callback function that receives DropboxRequestResult byte[]> that contains result data, error bool indicator and errorDescription if there was any error.
<pre>onProgress (Action<float> onProgress)</float></pre>	Callback function that receives progress as float from 0 to 1.
useCachedFirst (boo1)	Use cached version if it exists?
useCachedIfOffline (bool)	Use cached version if no Internet connection?
receiveUpdates (bool)	If true, then when there are remote updates on Dropbox, callback function onResult will be triggered again with updated version of the file.

GetFile<T>()

Asynchronously retrieves file from Dropbox and tries to produce object of specified type T.

Supported generic types T:

- string for text files
- JsonObject, JsonArray for JSON-formatted files
- Texture2D for image files

Parameter	Description
dropboxPath(string)	Path to file on Dropbox or inside of Dropbox App folder (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder/image.jpg
<pre>onResult (Action<dropboxrequestresult<t>>)</dropboxrequestresult<t></pre>	Callback function that receives DropboxRequestResult <t> that contains result data, error bool indicator and errorDescription if there was any error.</t>
<pre>onProgress (Action<float> onProgress)</float></pre>	Callback function that receives progress as float from 0 to 1.
useCachedFirst (bool)	Use cached version if it exists?
useCachedIfOffline (bool)	Use cached version if no Internet connection?
receiveUpdates (bool)	If true, then when there are remote updates on Dropbox, callback function onResult will be triggered again with updated version of the file.

GetFileAsLocalCachedPath()

Asynchronously retrieves file from Dropbox and returns path to local filesystem cached copy.

Parameter	Description
dropboxPath (string)	Path to file on Dropbox or inside of Dropbox App folder (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder/image.jpg
<pre>onResult (Action<dropboxrequestresult<string>>)</dropboxrequestresult<string></pre>	Callback function that receives DropboxRequestResult <string> that contains result data, error bool indicator and errorDescription if there was any error.</string>
<pre>onProgress (Action<float> onProgress)</float></pre>	Callback function that receives progress as float from 0 to 1.
useCachedFirst (boo1)	Use cached version if it exists?
useCachedIfOffline (bool)	Use cached version if no Internet connection?
receiveUpdates (bool)	If true, then when there are remote updates on Dropbox, callback function onResult will be triggered again with updated version of the file.

Uploading files

UploadFile(localFilePath)

Uploads file from specified filepath in local filesystem to Dropbox.

Parameters

Parameter	Description
<pre>dropboxPath(string)</pre>	Dropbox path where to upload file. <i>Example:</i> /my_text.txt
<pre>localFilePath (string)</pre>	Full file path in local filesystem. <i>Example:</i> C:/my_text.txt
<pre>onResult (Action<dropboxrequestresult<dbxfile>>)</dropboxrequestresult<dbxfile></pre>	Result callback that receives created remote file metadata
<pre>onProgress (Action<float> onProgress)</float></pre>	Callback function that receives progress as float from 0 to 1.

Example usage

```
DropboxSync.Main.UploadFile("/my_text.txt", "C:/my_text.txt", (res) => {
    if(res.error != null){
        Debug.LogError("Error uploading file: "+res.error.ErrorDescription);
    }else{
        Debug.Log("File uploaded!");
    }
}, (progress) => {
    Debug.Log("Uploading file... "+Mathf.RoundToInt(progress*100)+"%");
});
```

UploadFile(bytes[])

Uploads byte[] to specified Dropbox path.

Parameter	Description
dropboxPath(string)	Dropbox path where to upload file. <i>Example:</i> /my_text.txt
<pre>bytes(byte[])</pre>	Bytes array containing file data
<pre>onResult (Action<dropboxrequestresult<dbxfile>>)</dropboxrequestresult<dbxfile></pre>	Result callback that receives created remote file metadata
<pre>onProgress (Action<float> onProgress)</float></pre>	Callback function that receives progress as float from 0 to 1.

```
var bytes = Encoding.UTF8.GetBytes("my text");

DropboxSync.Main.UploadFile("/my_text.txt", bytes, (res) => {
    if(res.error != null) {
        Debug.LogError("Error uploading file: "+res.error.ErrorDescription);
    }else{
        Debug.Log("File uploaded!");
    }
}, (progress) => {
    Debug.Log("Uploading file... "+Mathf.RoundToInt(progress*100)+"%");
});
```

Getting folder structure

GetFolderStructure()

Asynchronously retrieves DBXFolder object with all recursive sub structure.

Parameter	Description
dropboxFolderPath (string)	Path to folder on Dropbox or inside Dropbox App (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder
<pre>onResult (Action<dropboxrequestresult<dbxfolder>>)</dropboxrequestresult<dbxfolder></pre>	Callback function that receives DropboxRequestResult <dbxfolder> that contains result data of type DBXFolder, error bool indicator and errorDescription if there was any error.</dbxfolder>
<pre>onProgress (Action<float> onProgress)</float></pre>	Callback function that receives progress as float from 0 to 1.

GetFolderItems()

Asynchronously retrieves flat list of <code>DBXItem</code> objects (files and folders).

Parameters

Parameter	Description
dropboxFolderPath(string)	Path to folder on Dropbox or inside Dropbox App (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder
<pre>onResult (Action<dropboxrequestresult<list<dbxitem>>>)</dropboxrequestresult<list<dbxitem></pre>	Callback function that receives DropboxRequestResult <list<dbxitem>> that contains result data of type List<dbxitem> , error bool indicator and errorDescription if there was any error.</dbxitem></list<dbxitem>
<pre>onProgress (Action<float> onProgress)</float></pre>	Callback function that receives progress as float from 0 to 1.
recursive (bool)	If true, then resulting list contains all subfolders and their files recursively.

Changes notifications

SubscribeToFileChanges()

Subscribes to file changes on Dropbox.

Callback fires once, when change is being registered and changed file checksum is cached in local metadata. If change was made not during app runtime, callback fires as soon as app is running and checking for updates.

Update interval can be changed using <code>DBXChangeForChangesIntervalSeconds</code> (default values if 5 seconds).

Parameters

Parameter	Description
<pre>dropboxFilePath (string)</pre>	Path to file on Dropbox or inside Dropbox App (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder/image.jpg
<pre>onChange (Action<dbxfilechange>)</dbxfilechange></pre>	Callback function that receives <code>DBXFileChange</code> that contains <code>changeType</code> and <code>DBXFile</code> (updated file metadata).

SubscribeToFolderChanges()

 Subscribes to file changes on Dropbox in specified folder (and recursively to all subfolders and their files).

Callback fires once, when change is being registered and changed file checksum is cached in local metadata. If change was made not during app runtime, callback fires as soon as app is running and checking for updates.

Update interval can be changed using <code>DBXChangeForChangesIntervalSeconds</code> (default values if 5 seconds).

Parameters

Parameter	Description
dropboxFolderPath (string)	Path to folder on Dropbox or inside Dropbox App (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder
<pre>onChange (Action<list<dbxfilechange>>)</list<dbxfilechange></pre>	Callback function that receives List <dbxfilechange> consisting of file changes. Each file change contains changeType and DBXFile (updated file metadata).</dbxfilechange>

UnsubscribeFromChangesOnPath()

Unsubscribe specific callback from changes on specified dropbox path

Parameters

Parameter	Description
<pre>dropboxPath(string)</pre>	Path from which to unsubscribe
<pre>onChange (Action<list<dbxfilechange>>)</list<dbxfilechange></pre>	Callback reference

UnsubscribeAllFromChangesOnPath()

public void UnsubscribeAllFromChangesOnPath(string dropboxPath)

Unsubscribes all subscribers from changes on specified Dropbox path

Parameter	Description
<pre>dropboxPath(string)</pre>	Path from which to unsubscribe

Other

PathExists()

Checks if dropbox path (file or folder) exists

Parameters

Parameter	Description
<pre>dropboxPath(string)</pre>	Path to file or folder on Dropbox or inside of Dropbox App folder (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder/image.jpg
<pre>onResult (Action<dropboxrequestresult<bool>>>)</dropboxrequestresult<bool></pre>	Result callback containing bool that indicates existance on the item

Move()

Moves file or folder from dropboxFromPath to dropboxToPath

Parameters

Parameter	Description
<pre>dropboxFromPath(string)</pre>	From path
<pre>dropboxToPath(string)</pre>	To path
<pre>onResult (Action<dropboxrequestresult<dbxitem>>)</dropboxrequestresult<dbxitem></pre>	Result callback containing metadata of moved object

Example usage

```
DropboxSync.Main.Move("/my_text.txt", "/my_text_renamed.txt", (res) => {
    if(res.error != null) {
        Debug.LogError("Failed to move file: "+res.error.ErrorDescription);
    }else{
        Debug.Log("Successfully moved file!");
    }
});
```

Delete()

Deletes file or folder on Dropbox

Parameter	Description	
dropboxPath(string)	Path to file or folder on Dropbox or inside of Dropbox App folder (depending on accessToken type). Should start with "/". Example: /DropboxSyncExampleFolder/image.jpg	
<pre>onResult (Action<dropboxrequestresult<dbxitem>>)</dropboxrequestresult<dbxitem></pre>	Callback function that receives DropboxRequestResult with DBXItem metadata of deleted file or folder	

```
DropboxSync.Main.Delete("/my_text.txt", (res) => {
    if(res.error != null){
        Debug.LogError("Failed to delete file: "+res.error.ErrorDescription);
    }else{
        Debug.Log("Successfully deleted file!");
    }
});
```

CreateFolder()

Creates folder using path specified. If nested in non-existing parent folders - creates this parent folders as well

Parameters

Parameter	Description
<pre>dropboxFolderPath(string)</pre>	Path of folder to create
<pre>onResult (Action<dropboxrequestresult<dbxfolder>>)</dropboxrequestresult<dbxfolder></pre>	Result callback that contains metadata of the created folder

```
DropboxSync.Main.CreateFolder("/folder/test/nested", (res) => {
    if(res.error != null){
        Debug.LogError("Failed to create folder: "+res.error.ErrorDescription);
    }else{
        Debug.Log("Successfully created folder!");
    }
});
```