



FREE eBook

LEARNING Dropbox API

Free unaffiliated eBook created from
Stack Overflow contributors.

#dropbox-
api

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About

You can share this PDF with anyone you feel could benefit from it, downloaded the latest version from: [dropbox-api](#)

It is an unofficial and free Dropbox API ebook created for educational purposes. All the content is extracted from [Stack Overflow Documentation](#), which is written by many hardworking individuals at Stack Overflow. It is neither affiliated with Stack Overflow nor official Dropbox API.

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Chapter 1: Getting started with Dropbox API

Remarks

The [Dropbox API](#) allows developers to build Dropbox functionality directly into their apps.

The API allows access to features such as file uploading, downloading, sharing, searching, and restoration. The API can be used across platforms such as Windows, Mac, Linux, iOS, Android, or any other that can make HTTPS connections.

More information, including the full documentation for the Dropbox API, usage guidelines, and developer tools such as official SDKs can be found on [the Dropbox API website](#).

The first step is to [register an API app with Dropbox](#).

Versions

Version	Release Date
2	2015-11-04

Examples

Getting an OAuth 2 access token for the Dropbox API via the code grant using curl

Abbreviated from <https://blogs.dropbox.com/developers/2013/07/using-oauth-2-0-with-the-core-api/>:

Step 1: Begin authorization

Send the user to this web page, with your values filled in:

```
https://www.dropbox.com/oauth2/authorize?client_id=<app key>&response_type=code&redirect_uri=<redirect URI>&state=<CSRF token>
```

The authorization code will be included as the `code` parameter on the redirect URI.

Step 2: Obtain an access token

```
curl https://api.dropbox.com/oauth2/token -d code=<authorization code> -d grant_type=authorization_code -d redirect_uri=<redirect URI> -u <app key>:<app secret>
```

Step 3: Call the API

In your API call, set the header:

```
Authorization: Bearer <access token>
```

Check out the [blog post](#) for more details, including an important security note on using `state` to protect against CSRF attacks.

Read [Getting started with Dropbox API online](https://riptutorial.com/dropbox-api/topic/359/getting-started-with-dropbox-api): <https://riptutorial.com/dropbox-api/topic/359/getting-started-with-dropbox-api>

Chapter 2: Downloading a file

Examples

Downloading a file via curl

This downloads a file from the Dropbox API at the remote path `/Homework/math/Prime_Numbers.txt` to the local path `Prime_Numbers.txt` in the current folder:

```
curl -X POST https://content.dropboxapi.com/2/files/download \  
  --header "Authorization: Bearer <ACCESS_TOKEN>" \  
  --header "Dropbox-API-Arg: {\"path\": \"/Homework/math/Prime_Numbers.txt\"}" \  
  -o \"./Prime_Numbers.txt\"
```

<ACCESS_TOKEN> should be replaced with your access token.

Downloading a file with progress information using the SwiftyDropbox library

Adapted from the [tutorial](#), this uses the [SwiftyDropbox library](#) to download a file, with a progress callback on the download method to get progress information:

```
// Download a file  
let destination : (NSURL, NSHTTPURLResponse) -> NSURL = { temporaryURL, response in  
    let fileManager = NSFileManager.defaultManager()  
    let directoryURL = fileManager.URLsForDirectory(.DocumentDirectory, inDomains:  
.UserDomainMask)[0]  
    // generate a unique name for this file in case we've seen it before  
    let UUID = NSUUID().UUIDString  
    let pathComponent = "\(UUID)-\(response.suggestedFilename!)"  
    return directoryURL.URLByAppendingPathComponent(pathComponent)  
}  
  
Dropbox.authorizedClient!.files.download(path: "/path/to/Dropbox/file", destination:  
destination)  
  
    .progress { bytesRead, totalBytesRead, totalBytesExpectedToRead in  
  
        print("bytesRead: \(bytesRead)")  
        print("totalBytesRead: \(totalBytesRead)")  
        print("totalBytesExpectedToRead: \(totalBytesExpectedToRead)")  
  
    }  
  
    .response { response, error in  
  
        if let (metadata, url) = response {  
            print("*** Download file ***")  
            print("Downloaded file name: \(metadata.name)")  
            print("Downloaded file url: \(url)")  
        } else {  
            print(error!)  
        }  
    }
```



```
}
```

You can then use that raw progress information to back the progress UI in your app.

Downloading a file using the Dropbox Python library

This uses the [Dropbox Python SDK](#) to download a file from the Dropbox API at the remote path `/Homework/math/Prime_Numbers.txt` to the local file `Prime_Numbers.txt`:

```
import dropbox
dbx = dropbox.Dropbox("<ACCESS_TOKEN>")

with open("Prime_Numbers.txt", "wb") as f:
    metadata, res = dbx.files_download(path="/Homework/math/Prime_Numbers.txt")
    f.write(res.content)
```

`<ACCESS_TOKEN>` should be replaced with your access token.

Downloading a file with every error case handled using the SwiftyDropbox library

```
Dropbox.authorizedClient!.files.download(path: path, destination: destination).response {
    response, error in
        if let (metadata, url) = response {
            print("*** Download file ***")
            print("Downloaded file name: \(metadata.name)")
            print("Downloaded file url: \(url)")
        } else if let callError = error {
            switch callError as CallError {
                case .RouteError(let boxed, let requestId):
                    print("RouteError[\(requestId)]:")
                    switch boxed.unboxed as Files.DownloadError {
                        case .Path(let fileLookupError):
                            print("PathError: ")
                            switch fileLookupError {
                                case .MalformedPath(let malformedPathError):
                                    print("MalformedPath: \(malformedPathError)")
                                case .NotFile:
                                    print("NotFile")
                                case .NotFolder:
                                    print("NotFolder")
                                case .NotFound:
                                    print("NotFound")
                                case .RestrictedContent:
                                    print("RestrictedContent")
                                case .Other:
                                    print("Other")
                            }
                        case .Other:
                            print("Other")
                    }
                case .BadInputError(let message, let requestId):
                    print("BadInputError[\(requestId)]: \(message)")
                case .HTTPError(let code, let message, let requestId):
                    print("HTTPError[\(requestId)]: \(code): \(message)")
                case .InternalServerError(let code, let message, let requestId):
```

```

        print("InternalServerError[\\(requestId)]: \\(code): \\(message)")
    case .OSError(let err):
        print("OSError: \\(err)")
    case .RateLimitError:
        print("RateLimitError")
    }
}
}

```

Downloading a file via curl in C++

```

#include <stdio.h>
#include <curl/curl.h>

int main (int argc, char *argv[])
{
    CURL *curl;
    CURLcode res;

    /* In windows, this will init the winsock stuff */
    curl_global_init(CURL_GLOBAL_ALL);

    /* get a curl handle */
    curl = curl_easy_init();
    if(curl) {

        printf ("Running curl test.\n");

        struct curl_slist *headers=NULL; /* init to NULL is important */
        headers = curl_slist_append(headers, "Authorization: Bearer <ACCESS_TOKEN>");
        headers = curl_slist_append(headers, "Content-Type:");
        headers = curl_slist_append(headers, "Dropbox-API-Arg: {\"path\": \"./test.txt\"}");
        curl_easy_setopt(curl, CURLOPT_HTTPHEADER, headers);

        curl_easy_setopt(curl, CURLOPT_URL,
"https://content.dropboxapi.com/2/files/download");
        curl_easy_setopt(curl, CURLOPT_POSTFIELDS, "");

        /* Perform the request, res will get the return code */
        res = curl_easy_perform(curl);
        /* Check for errors */
        if(res != CURLE_OK)
            fprintf(stderr, "curl_easy_perform() failed: %s\n",
                curl_easy_strerror(res));

        /* always cleanup */
        curl_easy_cleanup(curl);

        printf ("\nFinished curl test.\n");

    }
    curl_global_cleanup();

    printf ("Done!\n");
    return 0;
}

```

<ACCESS_TOKEN> should be replaced with your access token.

Downloading a piece of a file via curl using Range Retrieval Requests

This downloads just a piece of a file, using [Range Retrieval Requests](#), from the Dropbox API at the remote path `/Homework/math/Prime_Numbers.txt` to the local path `Prime_Numbers.txt.partial` in the current folder:

```
curl -X GET https://content.dropboxapi.com/2/files/download \  
  --header "Authorization: Bearer <ACCESS_TOKEN>" \  
  --header "Dropbox-API-Arg: {\"path\": \"/Homework/math/Prime_Numbers.txt\"}" \  
  --header "Range:bytes=0-10" \  
  -o "./Prime_Numbers.txt.partial"
```

The range specified, `0-10`, tells the API to return just the first 10 bytes. If the API responds with a 206 status code, that indicates that the Range was accepted, and only the partial request range was returned.

<ACCESS_TOKEN> should be replaced with your access token.

Downloading a file using the Dropbox .NET library

This uses the [Dropbox .NET SDK](#) to download a file from the Dropbox API at the remote path `/Homework/math/Prime_Numbers.txt` to the local file `Prime_Numbers.txt`:

```
using (var response = await client.Files.DownloadAsync("/Homework/math/Prime_Numbers.txt"))  
{  
    using (var fileStream = File.Create("Prime_Numbers.txt"))  
    {  
        (await response.GetContentAsStreamAsync()).CopyTo(fileStream);  
    }  
}
```

Downloading a file using the Dropbox .NET library with progress tracking

This uses the [Dropbox .NET SDK](#) to download a file from the Dropbox API at the remote `path` to the local file "Test", while tracking progress:

```
var response = await client.Files.DownloadAsync(path);  
ulong fileSize = response.Response.Size;  
const int bufferSize = 1024 * 1024;  
  
var buffer = new byte[bufferSize];  
  
using (var stream = await response.GetContentAsStreamAsync())  
{  
    using (var file = new FileStream("Test", FileMode.OpenOrCreate))  
    {  
        var length = stream.Read(buffer, 0, bufferSize);  
  
        while (length > 0)
```

```

    {
        file.Write(buffer, 0, length);
        var percentage = 100 * (ulong)file.Length / fileSize;
        // Update progress bar with the percentage.
        // progressBar.Value = (int)percentage
        Console.WriteLine(percentage);

        length = stream.Read(buffer, 0, bufferSize);
    }
}
}

```

Downloading a file with metadata via Requests in PHP

```

$response = Requests::post("https://content.dropboxapi.com/2/files/download", array(
    'Authorization' => "Bearer <ACCESS_TOKEN>",
    'Dropbox-API-Arg' => json_encode(array('path' => '/test.txt')),
));

$fileContent = $response->body;
$metadata = json_decode($response->headers['Dropbox-API-Result'], true);

echo "File " . $metadata["name"] . " has the rev " . $metadata["rev"] . ".\n";

```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Downloading a file with metadata via curl in PHP

```

<?php

function dbx_get_file($token, $in_filepath, $out_filepath)
{
    $out_fp = fopen($out_filepath, 'w+');
    if ($out_fp === FALSE)
    {
        echo "fopen error; can't open $out_filepath\n";
        return (NULL);
    }

    $url = 'https://content.dropboxapi.com/2/files/download';

    $header_array = array(
        'Authorization: Bearer ' . $token,
        'Content-Type:',
        'Dropbox-API-Arg: {"path":"' . $in_filepath . '"' }
    );

    $ch = curl_init();

    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_POST, TRUE);
    curl_setopt($ch, CURLOPT_HTTPHEADER, $header_array);
    curl_setopt($ch, CURLOPT_FILE, $out_fp);

    $metadata = null;
    curl_setopt($ch, CURLOPT_HEADERFUNCTION, function ($ch, $header) use (&$metadata)
    {

```

```

$prefix = 'dropbox-api-result:';
if (strtolower(substr($header, 0, strlen($prefix))) === $prefix)
{
    $metadata = json_decode(substr($header, strlen($prefix)), true);
}
return strlen($header);
}
);

$output = curl_exec($ch);

if ($output === FALSE)
{
    echo "curl error: " . curl_error($ch);
}

curl_close($ch);
fclose($out_fp);

return($metadata);
} // dbx_get_file()

$metadata = dbx_get_file("<ACCESS_TOKEN>", '/test.txt', 'test.txt');
echo "File " . $metadata['name'] . " has the rev " . $metadata['rev'] . ".\n";

?>

```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Downloading a file using the Dropbox Java library

This uses the [Dropbox Java SDK](#) to download a file from the Dropbox API at the remote path `/Homework/math/Prime_Numbers.txt` to the local file `Prime_Numbers.txt`:

```

String localPath = "Prime_Numbers.txt";
OutputStream outputStream = new FileOutputStream(localPath);
FileMetadata metadata = client.files()
    .downloadBuilder("/Homework/math/Prime_Numbers.txt")
    .download(outputStream);

```

Downloading a file using the Dropbox Objective-C library with progress tracking

This uses the [Dropbox Objective-C SDK](#) to download a file from Dropbox at `/test.txt`.

```

[[[client.filesRoutes downloadData:@"/test.txt"] response:^(DBFILESFileMetadata *metadata,
DBFILESDownloadError *downloadError, DBRequestError *error, NSData *fileData) {
    if (metadata) {
        NSLog(@"The download completed successfully.");
        NSLog(@"File metadata:");
        NSLog(@"%@", metadata);
        NSLog(@"File data length:");
        NSLog(@"%lu", (unsigned long)[fileData length]);
    } else if (downloadError) {
        NSLog(@"Something went wrong with the data:");
        NSLog(@"%@", downloadError);
    }
}];

```

```
    } else if (error) {
        NSLog(@"Something went wrong with the API call:");
        NSLog(@"%@", error);
    }
}] progress:^(int64_t bytesWritten, int64_t totalBytesWritten, int64_t
totalBytesExpectedToWrite) {
    // Here we can monitor the progress of the transfer:
    NSLog(@"bytesWritten: %lld, totalBytesWritten: %lld, totalBytesExpectedToWrite: %lld",
bytesWritten, totalBytesWritten, totalBytesExpectedToWrite);
}];
```

Read Downloading a file online: <https://riptutorial.com/dropbox-api/topic/408/downloading-a-file>

Chapter 3: Getting a shared link for a file or folder

Examples

Creating a shared link for a folder using the Dropbox Python library

This uses the [Dropbox Python SDK](#) to create a shared link for a folder:

```
import dropbox
dbx = dropbox.Dropbox("<ACCESS_TOKEN>")
shared_link_metadata = dbx.sharing_create_shared_link_with_settings("/Testing")
print shared_link_metadata.url
```

<ACCESS_TOKEN> should be replaced with the access token.

Retrieving an existing shared link for a specific file using curl

```
curl -X POST https://api.dropboxapi.com/2/sharing/list_shared_links \
--header "Authorization: Bearer <ACCESS_TOKEN>" \
--header "Content-Type: application/json" \
--data "{\"path\": \"/test.txt\", \"direct_only\": true}"
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Creating a shared link for a file using the SwiftyDropbox library

```
Dropbox.authorizedClient!.sharing.createSharedLink(path: "/test.txt").response({ response,
error in
    if let link = response {
        print(link.url)
    } else {
        print(error!)
    }
})
```

Creating a shared link for a file using curl

```
curl -X POST https://api.dropboxapi.com/2/sharing/create_shared_link_with_settings \
--header "Authorization: Bearer <ACCESS_TOKEN>" \
--header "Content-Type: application/json" \
--data "{\"path\": \"/Prime_Numbers.txt\", \"settings\": {\"requested_visibility\": \
\"public\"}}"
```

<ACCESS_TOKEN> should be replaced with the access token.

Creating a shared link for a file with expiration and visibility settings using the

Dropbox Python library

This uses the [Dropbox Python SDK](#) to create a shared link for a file and also supplies a requested visibility and expiration in the settings:

```
import datetime

import dropbox

dbx = dropbox.Dropbox("<ACCESS_TOKEN>")

expires = datetime.datetime.now() + datetime.timedelta(days=30)
requested_visibility = dropbox.sharing.RequestedVisibility.team_only
desired_shared_link_settings =
dropbox.sharing.SharedLinkSettings(requested_visibility=requested_visibility, expires=expires)

shared_link_metadata = dbx.sharing_create_shared_link_with_settings("/test.txt",
settings=desired_shared_link_settings)

print(shared_link_metadata)
```

<ACCESS_TOKEN> should be replaced with the access token.

Creating a shared link for a file using the Dropbox Java library

This uses the [Dropbox Java SDK](#) to create a shared link for a file at the Dropbox path /test.txt:

```
try {
    SharedLinkMetadata sharedLinkMetadata =
client.sharing().createSharedLinkWithSettings("/test.txt");
    System.out.println(sharedLinkMetadata.getUrl());
} catch (CreateSharedLinkWithSettingsErrorException ex) {
    System.out.println(ex);
} catch (DbxException ex) {
    System.out.println(ex);
}
```

This assumes `client` is a pre-existing and authorized `DbxClientV2` object, and does some basic exception handling to print the output.

Getting a shared link for a file using the Dropbox .NET library

This example uses the [Dropbox .NET library](#) to get a shared link for a file, either by creating a new one, or retrieving an existing one:

```
SharedLinkMetadata sharedLinkMetadata;
try {
    sharedLinkMetadata = await this.client.Sharing.CreateSharedLinkWithSettingsAsync (path);
} catch (ApiException<CreateSharedLinkWithSettingsError> err) {
    if (err.ErrorResponse.IsSharedLinkAlreadyExists) {
        var sharedLinksMetadata = await this.client.Sharing.ListSharedLinksAsync (path, null,
true);
        sharedLinkMetadata = sharedLinksMetadata.Links.First ();
    } else {
```



```
        throw err;
    }
}
Console.WriteLine (sharedLinkMetadata.Url);
```

Creating a shared link for a file using curl in PHP

```
<?php

$parameters = array('path' => '/test.txt');

$headers = array('Authorization: Bearer <ACCESS_TOKEN>',
                'Content-Type: application/json');

$curlOptions = array(
    CURLOPT_HTTPHEADER => $headers,
    CURLOPT_POST => true,
    CURLOPT_POSTFIELDS => json_encode($parameters),
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_VERBOSE => true
);

$ch = curl_init('https://api.dropboxapi.com/2/sharing/create_shared_link_with_settings');
curl_setopt_array($ch, $curlOptions);

$response = curl_exec($ch);
echo $response;

curl_close($ch);

?>
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Retrieving an existing shared link for a specific file using the Dropbox Java library

This uses the [Dropbox Java SDK](#) to retrieve an existing shared link for /Testing/test.txt specifically:

```
ListSharedLinksResult listSharedLinksResult = client.sharing()
    .listSharedLinksBuilder()
    .withPath("/Testing/test.txt").withDirectOnly(true)
    .start();
System.out.println(listSharedLinksResult.getLinks());
```

Read [Getting a shared link for a file or folder online](https://riptutorial.com/dropbox-api/topic/414/getting-a-shared-link-for-a-file-or-folder): <https://riptutorial.com/dropbox-api/topic/414/getting-a-shared-link-for-a-file-or-folder>

Chapter 4: Getting account information

Examples

Getting account information for the linked user via curl

```
curl -X POST https://api.dropboxapi.com/2/users/get_current_account \  
  --header "Authorization: Bearer <ACCESS_TOKEN>"
```

<ACCESS_TOKEN> should be replaced with your access token.

Getting account information for the linked user via curl in C++

```
#include <stdio.h>  
#include <curl/curl.h>  
  
int main (int argc, char *argv[])  
{  
    CURL *curl;  
    CURLcode res;  
  
    /* In windows, this will init the winsock stuff */  
    curl_global_init(CURL_GLOBAL_ALL);  
  
    /* get a curl handle */  
    curl = curl_easy_init();  
    if(curl) {  
  
        printf ("Running curl test.\n");  
  
        struct curl_slist *headers=NULL; /* init to NULL is important */  
        headers = curl_slist_append(headers, "Authorization: Bearer <ACCESS_TOKEN>");  
        headers = curl_slist_append(headers, "Content-Type: application/json");  
        curl_easy_setopt(curl, CURLOPT_HTTPHEADER, headers);  
  
        curl_easy_setopt(curl, CURLOPT_URL,  
"https://api.dropbox.com/2/users/get_current_account");  
        curl_easy_setopt(curl, CURLOPT_POSTFIELDS, "null");  
  
        /* Perform the request, res will get the return code */  
        res = curl_easy_perform(curl);  
  
        /* Check for errors */  
        if(res != CURLE_OK)  
            fprintf(stderr, "curl_easy_perform() failed: %s\n",  
                curl_easy_strerror(res));  
  
        /* always cleanup */  
        curl_easy_cleanup(curl);  
  
        printf ("\nFinished curl test.\n");  
  
    }  
}
```

```
curl_global_cleanup();

printf ("Done!\n");
return 0;

}
```

<ACCESS_TOKEN> should be replaced with your access token.

Getting account information using the Dropbox Python library

This uses the [Dropbox Python SDK](#) to get the user's account information from the Dropbox API.

```
import dropbox
dbx = dropbox.Dropbox("<ACCESS_TOKEN>")
dbx.users_get_current_account()
```

<ACCESS_TOKEN> should be replaced with the access token.

Getting space usage information for the linked user via curl in PHP

```
<?php

$headers = array("Authorization: Bearer <ACCESS_TOKEN>",
                "Content-Type: application/json");

$ch = curl_init('https://api.dropboxapi.com/2/users/get_space_usage');
curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_POSTFIELDS, "null");
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
$response = curl_exec($ch);

curl_close($ch);
echo $response;

?>
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Getting account information for the linked user via HttpWebRequest in PowerShell

```
$url = "https://api.dropboxapi.com/2/users/get_current_account"

$req = [System.Net.HttpWebRequest]::Create($url)
$req.headers["Authorization"] = "Bearer <ACCESS_TOKEN>"
$req.Method = "POST"

$res = $req.GetResponse()
Write-Host "Response Status Code: "$res.StatusCode
Write-Host "Response Status Description: "$res.StatusDescription
$readStream = new-object System.IO.StreamReader $res.GetResponseStream()
$result = $readStream.ReadToEnd() | ConvertFrom-Json
```

```
Write-Host $result
$readStream.Close()
$res.Close()
```

<ACCESS_TOKEN> should be replaced with your access token.

Getting account information via jQuery in JavaScript

```
jQuery.ajax({
  url: 'https://api.dropboxapi.com/2/users/get_current_account',
  type: 'POST',
  headers: {
    "Authorization": "Bearer <ACCESS_TOKEN>"
  },
  success: function (data) {
    console.log(data);
  },
  error: function (error) {
    console.log(error);
  }
})
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Getting account information using the Dropbox Objective-C library

This uses the [Dropbox Objective-C SDK](#) to get the user's account information from the Dropbox API.

```
[[client.usersRoutes getCurrentAccount] response:^(DBUSERSFullAccount *account, DBNilObject
*_, DBRequestError *error) {
  if (account) {
    NSLog(@"%@", account);
  } else if (error) {
    NSLog(@"%@", error);
  }
}];
```

Read [Getting account information online](https://riptutorial.com/dropbox-api/topic/410/getting-account-information): <https://riptutorial.com/dropbox-api/topic/410/getting-account-information>

Chapter 5: Getting file metadata

Examples

Get file metadata for a file, including media information, using the SwiftyDropbox library

```
Dropbox.authorizedClient!.files.getMetadata(path: "/test.jpg", includeMediaInfo: true).response { response, error in
    if let result = response as? Files.FileMetadata {
        print(result.name)

        if result.mediaInfo != nil {
            switch result.mediaInfo! as Files.MediaInfo {
            case .Pending:
                print("Media info is pending...")
            case .Metadata(let mediaMetadata):
                print(mediaMetadata.dimensions)
                print(mediaMetadata.location)
                print(mediaMetadata.timeTaken)
            }
        }
    } else {
        print(error!)
    }
}
```

Get file metadata for a file, including media information, using curl

```
curl -X POST https://api.dropboxapi.com/2/files/get_metadata \
--header "Authorization: Bearer <ACCESS_TOKEN>" \
--header "Content-Type: application/json" \
--data "{\"path\": \"/test.jpg\", \"include_media_info\": true}"
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Handling the error when getting metadata for a non-existing path using the Dropbox .NET library

This example uses the [Dropbox .NET library](#) to try to get the metadata for an item at a particular path, and checks for a `NotFound` error:

```
try {
    var metadata = await this.client.Files.GetMetadataAsync("/non-existent path");
    Console.WriteLine(metadata.Name);
} catch (Dropbox.Api.ApiException<Dropbox.Api.Files.GetMetadataError> e) {

    if (e.ErrorResponse.IsPath) {
        var pathError = e.ErrorResponse.AsPath.Value;
        if (pathError.IsNotFound) {
            Console.WriteLine("File or folder not found.");
        }
    }
}
```

```
    } else {  
        Console.WriteLine (pathError);  
    }  
} else {  
    Console.WriteLine (e.ErrorResponse);  
}  
}
```

Read Getting file metadata online: <https://riptutorial.com/dropbox-api/topic/413/getting-file-metadata>

Chapter 6: Listing a folder

Examples

Listing the root folder via curl

This lists the root folder, which is identified by the empty string "" for Dropbox API v2, using curl, using [/files/list_folder](#):

```
curl -X POST https://api.dropboxapi.com/2/files/list_folder \
  --header "Authorization: Bearer <ACCESS_TOKEN>" \
  --header "Content-Type: application/json" \
  --data "{\"path\": \"\"}"
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Note that the response may contain `has_more=true`, in which case your app should call back to [/files/list_folder/continue](#) to continue getting more entries.

Listing the root folder via curl in PHP and the cURL extension

```
<?php

$parameters = array('path' => '', 'include_deleted' => true, 'recursive' => true);

$headers = array('Authorization: Bearer <ACCESS_TOKEN>',
                 'Content-Type: application/json');

$curlOptions = array(
    CURLOPT_HTTPHEADER => $headers,
    CURLOPT_POST => true,
    CURLOPT_POSTFIELDS => json_encode($parameters),
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_VERBOSE => true
);

$ch = curl_init('https://api.dropboxapi.com/2/files/list_folder');
curl_setopt_array($ch, $curlOptions);

$response = curl_exec($ch);
echo $response;

curl_close($ch);

?>
```

Note that the response may contain `has_more=true`, in which case your app should call back to [/files/list_folder/continue](#) to continue getting more entries.

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Listing the root folder using the SwiftyDropbox library, distinguishing files and folders in the response

```
Dropbox.authorizedClient!.files.listFolder(path: "").response { response, error in
    print("*** List folder ***")
    if let result = response {
        print("Folder contents:")
        for entry in result.entries {
            print(entry.name)
            if let file = entry as? Files.FileMetadata {
                print("\tThis is a file with path: \(file.pathLower) and size: \(file.size)")
            } else if let folder = entry as? Files.FolderMetadata {
                print("\tThis is a folder with path: \(folder.pathLower)")
            }
        }
    }
    } else if let callError = error {
        switch callError {
            case .RouteError(let boxed, _):
                switch boxed.unboxed {
                    case .Path(let lookupError):
                        print("lookupError:")
                        print(lookupError)
                    case .Other:
                        print("Other")
                }
            default:
                print("default")
        }
    }
}
```

Note that the response may contain `ListFolderResult.hasMore=true`, in which case your app should call back using `listFolderContinue` to continue getting more entries.

Attempting to list a non-existent folder using the SwiftyDropbox library, as an example of error handling

```
// List folder
Dropbox.authorizedClient!.files.listFolder(path: "/nonexistentpath").response { response,
error in
    print("*** List folder ***")
    if let result = response {
        print("Folder contents:")
        for entry in result.entries {
            print(entry.name)
        }
    }
    } else if let callError = error {
        switch callError {
            case .RouteError(let boxed, _):
                switch boxed.unboxed {
                    case .Path(let lookupError):
                        print("lookupError:")
                        print(lookupError)
                    case .Other:
                        print("Other")
                }
            }
    }
```



```
        default:
            print("default")
        }
    }
}
```

File Listing using PHP and cURL extension

```
<?php

$ch = curl_init();

curl_setopt($ch, CURLOPT_URL, "https://api.dropboxapi.com/2/files/list_folder");
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
curl_setopt($ch, CURLOPT_CAINFO, "cacert.pem");
curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
curl_setopt($ch, CURLOPT_POSTFIELDS, "{\"path\":\"/<FOLDER_PATH>\"}");
curl_setopt($ch, CURLOPT_POST, 1);

$headers = array();
$headers[] = "Authorization: Bearer <ACCESS_TOKEN>";
$headers[] = "Content-Type: application/json";
curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);

$result = curl_exec($ch);
if (curl_errno($ch)) {
    echo 'Error:' . curl_error($ch);
}
curl_close ($ch);

$json = json_decode($result, true);
foreach ($json['entries'] as $data) {
    echo 'File Name: ' . $data['name'];
}

?>
```

Note that the response may contain `has_more=true`, in which case your app should call back to `/files/list_folder/continue` to continue getting more entries.

`<ACCESS_TOKEN>` **should be replaced** with the OAuth 2 access token.

Read Listing a folder online: <https://riptutorial.com/dropbox-api/topic/412/listing-a-folder>

Chapter 7: Sharing a file

Examples

Inviting a member to a shared file using the Dropbox Java library

This uses the [Dropbox Java SDK](#) to share a file at "/test.txt" with a specific user:

```
List<MemberSelector> newMembers = new ArrayList<MemberSelector>();
MemberSelector newMember = MemberSelector.email("<EMAIL_ADDRESS_TO_INVITE>");
newMembers.add(newMember);

List<FileMemberActionResult> fileMemberActionResults =
client.sharing().addFileMember("/test.txt", newMembers);
System.out.print(fileMemberActionResults);
```

<EMAIL_ADDRESS_TO_INVITE> should be replaced with the email address of the user to invite. Also, `newMembers` is an array and can contain multiple users.

Read Sharing a file online: <https://riptutorial.com/dropbox-api/topic/8979/sharing-a-file>

Chapter 8: Sharing a folder

Examples

Sharing a folder with every error case handled using the SwiftyDropbox library

This uses the [SwiftyDropbox library](#) to share a folder, handling every error case:

```
Dropbox.authorizedClient!.sharing.shareFolder(path: "/folder_path").response { response, error
in
    if let result = response {
        print("response: \(result)")
    } else if let callError = error {
        switch callError as CallError {
        case .BadInputError(let message, let requestId):
            print("BadInputError[\(requestId)]: \(message)")
        case .HTTPError(let code, let message, let requestId):
            print("HTTPError[\(requestId)]: \(code): \(message)")
        case .InternalServerError(let code, let message, let requestId):
            print("InternalServerError[\(requestId)]: \(code): \(message)")
        case .OSError(let err):
            print("OSError: \(err)")
        case .RateLimitError:
            print("RateLimitError")
        case .RouteError(let boxed, let requestId):
            print("RouteError[\(requestId)]:")
            switch boxed.unboxed as Sharing.ShareFolderError {
            case .BadPath(let sharePathError):
                print("BadPath: \(sharePathError)")
                switch sharePathError as Sharing.SharePathError {
                case .AlreadyShared:
                    print("AlreadyShared")
                case .ContainsSharedFolder:
                    print("ContainsSharedFolder")
                case .InsideAppFolder:
                    print("InsideAppFolder")
                case .InsideSharedFolder:
                    print("InsideSharedFolder")
                case .InvalidPath:
                    print("InvalidPath")
                case .IsAppFolder:
                    print("IsAppFolder")
                case .IsFile:
                    print("IsFile")
                case .Other:
                    print("Other")
                }
            case .EmailUnverified:
                print("EmailUnverified")
            case .TeamPolicyDisallowsMemberPolicy:
                print("TeamPolicyDisallowsMemberPolicy")
            case .Other:
                print("Other")
            }
        }
    }
}
```

```
}  
}
```

Sharing a folder using curl

```
curl -X POST https://api.dropboxapi.com/2/sharing/share_folder \  
  --header "Authorization: Bearer <ACCESS_TOKEN>" \  
  --header "Content-Type: application/json" \  
  --data "{\"path\": \"/folder_path\", \"member_policy\": \"team\", \"acl_update_policy\":  
  \"editors\", \"shared_link_policy\": \"members\", \"force_async\": false}"
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Inviting a member to a shared folder using curl

```
curl -X POST https://api.dropboxapi.com/2/sharing/add_folder_member \  
  --header "Authorization: Bearer <ACCESS_TOKEN>" \  
  --header "Content-Type: application/json" \  
  --data "{\"shared_folder_id\": \"<SHARED_FOLDER_ID>\", \"members\": [{\"member\": {\".tag\":  
  \"email\", \"email\": \"<EMAIL_ADDRESS_TO_INVITE>\"}, \"access_level\": {\".tag\":  
  \"editor\"}}], \"quiet\": false, \"custom_message\": \"Code examples\"}"
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

<SHARED_FOLDER_ID> should be replaced with the shared folder ID, e.g., as returned by [/2/sharing/share_folder](#) or [/2/sharing/list_folders](#).

<EMAIL_ADDRESS_TO_INVITE> should be replaced with the email address of the user to invite. Also, `members` is an array and can contain multiple users.

Inviting a member to a shared folder with every error case handled using the SwiftyDropbox library

```
let toInvite = [Sharing.AddMember(member:  
Sharing.MemberSelector.Email("<EMAIL_ADDRESS_TO_INVITE>"))]  
  
Dropbox.authorizedClient!.sharing.addFolderMember(sharedFolderId: "<SHARED_FOLDER_ID>",  
members: toInvite).response { response, error in  
  
  if (response != nil) {  
    print("Invited member.")  
  } else if let callError = error {  
    switch callError as CallError {  
    case .BadInputError(let message, let requestId):  
      print("BadInputError[\\(requestId)]: \\(message)")  
    case .HTTPError(let code, let message, let requestId):  
      print("HTTPError[\\(requestId)]: \\(code): \\(message)")  
    case .InternalServerError(let code, let message, let requestId):  
      print("InternalServerError[\\(requestId)]: \\(code): \\(message)")  
    case .OSError(let err):  
      print("OSError: \\(err)")  
    case .RateLimitError:  
      print("RateLimitError")  
    }
```

```

case .RouteError(let boxed, let requestId):
  print("RouteError[\(requestId)]:")
  switch boxed.unboxed as Sharing.AddFolderMemberError {
  case .AccessError(let sharedFolderAccessError):
    print("AccessError")
    switch sharedFolderAccessError {
    case .EmailUnverified:
      print("EmailUnverified")
    case .InvalidId:
      print("InvalidId")
    case .NoPermission:
      print("NoPermission")
    case .NotAMember:
      print("NotAMember")
    case .TeamFolder:
      print("TeamFolder")
    case .Unmounted:
      print("Unmounted")
    case .Other:
      print("Other")
    }
  case .BadMember(let addMemberSelectorError):
    switch addMemberSelectorError {
    case .GroupDeleted:
      print("GroupDeleted")
    case .GroupNotOnTeam:
      print("GroupNotOnTeam")
    case .InvalidDropboxId(let invalidDropboxId):
      print("InvalidDropboxId: \(invalidDropboxId)")
    case .InvalidEmail(let invalidEmail):
      print("InvalidEmail: \(invalidEmail)")
    case .UnverifiedDropboxId(let unverifiedDropboxId):
      print("UnverifiedDropboxId: \(unverifiedDropboxId)")
    case .Other:
      print("Other")
    }
  case .CantShareOutsideTeam:
    print("CantShareOutsideTeam")
  case .EmailUnverified:
    print("EmailUnverified")
  case .InsufficientPlan:
    print("InsufficientPlan")
  case .NoPermission:
    print("NoPermission")
  case .RateLimit:
    print("RateLimit")
  case .TooManyMembers(let limit):
    print("TooManyMembers: \(limit)")
  case .TooManyPendingInvites(let limit):
    print("TooManyPendingInvites: \(limit)")
  case .Other:
    print("Other")
  }
}
}
}
}

```

<SHARED_FOLDER_ID> should be replaced with the shared folder ID, e.g., as returned by [sharing.shareFolder](#) Or [sharing.listFolders](#).

<EMAIL_ADDRESS_TO_INVITE> should be replaced with the email address of the user to invite. Also, members is an array and can contain multiple users.

Sharing a folder via HttpRequest in PowerShell

```
$url = "https://api.dropboxapi.com/2/sharing/share_folder"

$req = [System.Net.HttpWebRequest]::Create($url)
$req.headers["Authorization"] = "Bearer <ACCESS_TOKEN>"
$req.Method = "POST"
$req.ContentType = "application/json"
$enc = [system.Text.Encoding]::UTF8
$params = @{"path="/new shared folder path"} | ConvertTo-Json -compress
$params = $enc.GetBytes($params)
$req.GetRequestStream().Write($params, 0, $params.Length)

$res = $req.GetResponse()
Write-Host "Response Status Code: "$res.StatusCode
Write-Host "Response Status Description: "$res.StatusDescription
$readStream = new-object System.IO.StreamReader $res.GetResponseStream()
$result = $readStream.ReadToEnd() | ConvertFrom-Json
Write-Host $result
$readStream.Close()
$res.Close()
```

<ACCESS_TOKEN> should be replaced with your access token.

Inviting a member to a shared folder via jQuery in JavaScript

```
$.ajax({
  url: 'https://api.dropboxapi.com/2/sharing/add_folder_member',
  type: 'POST',
  processData: false,
  data: JSON.stringify({"shared_folder_id": "84528192421", "members": [{"member": {"tag": "email", "email": "justin@example.com"}, "access_level": {"tag": "editor"}}, {"member": {"tag": "dropbox_id", "dropbox_id": "dbid:AAEufNrMPSPe0dMQijRP0N_aZtBJRm26W4Q"}, "access_level": {"tag": "viewer"}}], "quiet": false, "custom_message": "Documentation for launch day"}),
  contentType: 'application/json',
  headers: {
    "Authorization": "Bearer <ACCESS_TOKEN>"
  },
  success: function(data) {
    console.log(data);
  },
  error: function(data) {
    console.error(data);
  }
})
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Read [Sharing a folder online](https://riptutorial.com/dropbox-api/topic/411/sharing-a-folder): <https://riptutorial.com/dropbox-api/topic/411/sharing-a-folder>

Chapter 9: Uploading a file

Examples

Uploading a file via curl in PHP

```
<?php

$path = 'test_php_upload.txt';
$fp = fopen($path, 'rb');
$size = filesize($path);

$headers = array('Authorization: Bearer <ACCESS_TOKEN>',
                'Content-Type: application/octet-stream',
                'Dropbox-API-Arg: {"path":"/test/.'.$path.', "mode":"add"}');

$ch = curl_init('https://content.dropboxapi.com/2/files/upload');
curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);
curl_setopt($ch, CURLOPT_PUT, true);
curl_setopt($ch, CURLOPT_CUSTOMREQUEST, 'POST');
curl_setopt($ch, CURLOPT_INFILE, $fp);
curl_setopt($ch, CURLOPT_INFILESIZE, $size);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
$response = curl_exec($ch);

echo $response;
curl_close($ch);
fclose($fp);

?>
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Uploading a file via curl in C++

```
#include <stdio.h>
#include <curl/curl.h>

int main (int argc, char *argv[])
{
    CURL *curl;
    CURLcode res;

    /* In windows, this will init the winsock stuff */
    curl_global_init(CURL_GLOBAL_ALL);

    /* get a curl handle */
    curl = curl_easy_init();
    if(curl) {

        printf ("Running curl test.\n");

        struct curl_slist *headers=NULL; /* init to NULL is important */
        headers = curl_slist_append(headers, "Authorization: Bearer <ACCESS_TOKEN>");
```

```

        headers = curl_slist_append(headers, "Content-Type: application/octet-stream");
        headers = curl_slist_append(headers, "Dropbox-API-Arg:
{\\\"path\\\":\\\"/test_c++_upload_test.txt\\\"}");
        curl_easy_setopt(curl, CURLOPT_HTTPHEADER, headers);

        curl_easy_setopt(curl, CURLOPT_URL,
"https://content.dropboxapi.com/2/files/upload");
        curl_easy_setopt(curl, CURLOPT_POSTFIELDS, "test data for upload");

        /* Perform the request, res will get the return code */
        res = curl_easy_perform(curl);
        /* Check for errors */
        if(res != CURLE_OK)
            fprintf(stderr, "curl_easy_perform() failed: %s\\n",
                curl_easy_strerror(res));

        /* always cleanup */
        curl_easy_cleanup(curl);

        printf (\\nFinished curl test.\\n");

    }
    curl_global_cleanup();

    printf ("Done!\\n");
    return 0;
}

```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Uploading a file via curl

This uploads a file from the local path `matrices.txt` in the current folder to

`/Homework/math/Matrices.txt` in the Dropbox account, and returns the metadata for the uploaded file:

```

echo "some content here" > matrices.txt

curl -X POST https://content.dropboxapi.com/2/files/upload \
  --header "Authorization: Bearer <ACCESS_TOKEN>" \
  --header "Dropbox-API-Arg: {\\\"path\\\": \\\"/Homework/math/Matrices.txt\\\"}" \
  --header "Content-Type: application/octet-stream" \
  --data-binary @matrices.txt

```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Uploading a file from NSData with every error case handled using the SwiftyDropbox library

This uses the [SwiftyDropbox library](#) to upload a file from a `NSData` to the Dropbox account, using upload sessions for larger files, handling every error case:

```

import UIKit
import SwiftyDropbox

```



```

class ViewController: UIViewController {

    // replace this made up data with the real data
    let data = String(count: 20 * 1024 * 1024, repeatedValue:
Character("A")).dataUsingEncoding(NSUTF8StringEncoding)!

    let chunkSize = 5 * 1024 * 1024 // 5 MB
    var offset = 0
    var sessionId = ""

    // replace this with your desired destination path:
    let destPath = "/SwiftlyDropbox_upload.txt"

    override func viewDidLoad() {
        super.viewDidLoad()

        Dropbox.authorizedClient = DropboxClient(...)

        doUpload()
    }

    override func didReceiveMemoryWarning() {
        super.didReceiveMemoryWarning()
    }

    func doUpload() {

        let fileSize = data.length

        print("Have \(fileSize) bytes to upload.")

        if (fileSize < chunkSize) {

            print("Using non-chunked uploading...")

            Dropbox.authorizedClient!.files.upload(path:destPath, input:data).response {
response, error in
                if let metadata = response {
                    print(metadata)
                } else if let callError = error {
                    print("upload failed")
                    switch callError as CallError {
                    case .RouteError(let boxed, let requestId):
                        print("RouteError[\(requestId)]:")
                        switch boxed.unboxed as Files.UploadError {
                        case .Path(let uploadError):
                            print("Path:")
                            switch uploadError.reason as Files.WriteError {
                            case .MalformedPath(let malformedPathError):
                                print("MalformedPath: \(malformedPathError)")
                            case .Conflict(let writeConflictError):
                                print("Conflict:")
                                switch writeConflictError {
                                case .File:
                                    print("File")
                                case .FileAncestor:
                                    print("FileAncestor")
                                case .Folder:
                                    print("Folder")
                                }
                            }
                        }
                    }
                }
            }
        }
    }
}

```

```

        case .Other:
            print("Other")
        }
        case .DisallowedName:
            print("DisallowedName")
        case .InsufficientSpace:
            print("InsufficientSpace")
        case .NoWritePermission:
            print("NoWritePermission")
        case .Other:
            print("Other")
        }
    case .Other:
        print("Other")
    }
    case .BadInputError(let message, let requestId):
        print("BadInputError[\(requestId)]: \(message)")
    case .HTTPError(let code, let message, let requestId):
        print("HTTPError[\(requestId)]: \(code): \(message)")
    case .InternalServerError(let code, let message, let requestId):
        print("InternalServerError[\(requestId)]: \(code): \(message)")
    case .OSError(let err):
        print("OSError: \(err)")
    case .RateLimitError:
        print("RateLimitError")
    }
}
}

} else {

    print("Using chunked uploading...")

    uploadFirstChunk()

}
}

func uploadFirstChunk() {
    let size = min(chunkSize, data.length)
    Dropbox.authorizedClient!.files.uploadSessionStart(input:
        data.subdataWithRange(NSMakeRange(0, size)))
    .response { response, error in
        if let result = response {
            self.sessionId = result.sessionId
            self.offset += size
            print("So far \(self.offset) bytes have been uploaded.")
            self.uploadNextChunk()
        } else if let callError = error {
            print("uploadSessionStart failed")
            switch callError as CallError {
            case .RouteError(let error, let requestId):
                print("RouteError[\(requestId)]: \(error)")
            case .BadInputError(let message, let requestId):
                print("BadInputError[\(requestId)]: \(message)")
            case .HTTPError(let code, let message, let requestId):
                print("HTTPError[\(requestId)]: \(code): \(message)")
            case .InternalServerError(let code, let message, let requestId):
                print("InternalServerError[\(requestId)]: \(code): \(message)")
            case .OSError(let err):
                print("OSError: \(err)")
            }
        }
    }
}

```

```

        case .RateLimitError:
            print("RateLimitError")
        }
    }
}

func uploadNextChunk() {
    if data.length - offset <= chunkSize {
        let size = data.length - offset
        Dropbox.authorizedClient!.files.uploadSessionFinish(
            cursor: Files.UploadSessionCursor(
                sessionId: self.sessionId, offset: UInt64(offset)),
            commit: Files.CommitInfo(path: destPath),
            input: data.subdataWithRange(NSMakeRange(offset, size)))
        .response { response, error in
            if let callError = error {
                print("uploadSessionFinish failed")
                switch callError as CallError {
                    case .RouteError(let boxed, let requestId):
                        print("RouteError[\(requestId)]:")
                        switch boxed.unboxed as Files.UploadSessionFinishError {
                            case .Path(let writeError):
                                print("Path: ")
                                switch writeError {
                                    case .MalformedPath(let malformedPathError):
                                        print("MalformedPath: \(malformedPathError)")
                                    case .Conflict(let writeConflictError):
                                        print("Conflict:")
                                        switch writeConflictError {
                                            case .File:
                                                print("File")
                                            case .FileAncestor:
                                                print("FileAncestor")
                                            case .Folder:
                                                print("Folder")
                                            case .Other:
                                                print("Other")
                                        }
                                    case .DisallowedName:
                                        print("DisallowedName")
                                    case .InsufficientSpace:
                                        print("InsufficientSpace")
                                    case .NoWritePermission:
                                        print("NoWritePermission")
                                    case .Other:
                                        print("Other")
                                }
                            case .LookupFailed(let uploadSessionLookupError):
                                print("LookupFailed:")
                                switch uploadSessionLookupError {
                                    case .Closed:
                                        print("Closed")
                                    case .IncorrectOffset(let uploadSessionOffsetError):
                                        print("IncorrectOffset: \(uploadSessionOffsetError)")
                                    case .NotFound:
                                        print("NotFound")
                                    case .NotClosed:
                                        print("NotClosed")
                                    case .Other:
                                        print("Other")
                                }
                            }
                }
            }
        }
    }
}

```



```

    }
  }
}
}

```

Uploading a file using the Dropbox .NET library

This example uses the [Dropbox .NET library](#) to upload a file to a Dropbox account, using upload sessions for larger files:

```

private async Task Upload(string localPath, string remotePath)
{
    const int ChunkSize = 4096 * 1024;
    using (var fileStream = File.Open(localPath, FileMode.Open))
    {
        if (fileStream.Length <= ChunkSize)
        {
            await this.client.Files.UploadAsync(remotePath, body: fileStream);
        }
        else
        {
            await this.ChunkUpload(remotePath, fileStream, (int)ChunkSize);
        }
    }
}

private async Task ChunkUpload(String path, FileStream stream, int chunkSize)
{
    ulong numChunks = (ulong)Math.Ceiling((double)stream.Length / chunkSize);
    byte[] buffer = new byte[chunkSize];
    string sessionId = null;
    for (ulong idx = 0; idx < numChunks; idx++)
    {
        var bytesRead = stream.Read(buffer, 0, chunkSize);

        using (var memStream = new MemoryStream(buffer, 0, bytesRead))
        {
            if (idx == 0)
            {
                var result = await this.client.Files.UploadSessionStartAsync(false,
memStream);
                sessionId = result.SessionId;
            }
            else
            {
                var cursor = new UploadSessionCursor(sessionId, (ulong)chunkSize * idx);

                if (idx == numChunks - 1)
                {
                    FileMetadata fileMetadata = await
this.client.Files.UploadSessionFinishAsync(cursor, new CommitInfo(path), memStream);
                    Console.WriteLine (fileMetadata.PathDisplay);
                }
                else
                {
                    await this.client.Files.UploadSessionAppendV2Async(cursor, false,
memStream);
                }
            }
        }
    }
}

```

```
    }  
  }  
}
```

Uploading a file via jQuery in JavaScript

```
// ... file selected from a file <input>  
file = event.target.files[0];  
$.ajax({  
  url: 'https://content.dropboxapi.com/2/files/upload',  
  type: 'post',  
  data: file,  
  processData: false,  
  contentType: 'application/octet-stream',  
  headers: {  
    "Authorization": "Bearer <ACCESS_TOKEN>",  
    "Dropbox-API-Arg": '{"path": "/test_upload.txt","mode": "add","autorename":  
true,"mute": false}'  
  },  
  success: function (data) {  
    console.log(data);  
  },  
  error: function (data) {  
    console.error(data);  
  }  
})
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Uploading a file from text via jQuery in JavaScript

```
var data = new TextEncoder("utf-8").encode("Test");  
$.ajax({  
  url: 'https://content.dropboxapi.com/2/files/upload',  
  type: 'post',  
  data: data,  
  processData: false,  
  contentType: 'application/octet-stream',  
  headers: {  
    "Authorization": "Bearer <ACCESS_TOKEN>",  
    "Dropbox-API-Arg": '{"path": "/test_upload.txt","mode": "add","autorename":  
true,"mute": false}'  
  },  
  success: function (data) {  
    console.log(data);  
  },  
  error: function (data) {  
    console.error(data);  
  }  
})
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Uploading a file using the Dropbox Python SDK

This uses the [Dropbox Python SDK](#) to upload a file to the Dropbox API from the local file as specified by `file_path` to the remote path as specified by `dest_path`. It also chooses whether or not to use an upload session based on the size of the file:

```
f = open(file_path)
file_size = os.path.getsize(file_path)

CHUNK_SIZE = 4 * 1024 * 1024

if file_size <= CHUNK_SIZE:

    print dbx.files_upload(f.read(), dest_path)

else:

    upload_session_start_result = dbx.files_upload_session_start(f.read(CHUNK_SIZE))
    cursor =
dropbox.files.UploadSessionCursor(session_id=upload_session_start_result.session_id,
                                  offset=f.tell())
    commit = dropbox.files.CommitInfo(path=dest_path)

    while f.tell() < file_size:
        if ((file_size - f.tell()) <= CHUNK_SIZE):
            print dbx.files_upload_session_finish(f.read(CHUNK_SIZE),
                                                  cursor,
                                                  commit)
        else:
            dbx.files_upload_session_append(f.read(CHUNK_SIZE),
                                           cursor.session_id,
                                           cursor.offset)

            cursor.offset = f.tell()

f.close()
```

Uploading a file from text via XMLHttpRequest in JavaScript

```
var path = "/test_javascript_upload.txt";
var content = "data to upload";
var accessToken = "<ACCESS_TOKEN>";
var uploadUrl = "https://content.dropboxapi.com/2/files/upload"
var result;

var xhr = new XMLHttpRequest();
xhr.onreadystatechange = function() {
    if (xhr.readyState === 4) {
        result = xhr.responseText;
        console.log(result);
    }
};
xhr.open("POST", uploadUrl, true);
xhr.setRequestHeader("Authorization", "Bearer " + accessToken);
xhr.setRequestHeader("Content-type", "application/octet-stream");
xhr.setRequestHeader("Dropbox-API-Arg", '{"path": "' + path + '"}');
xhr.send(content);
```

<ACCESS_TOKEN> should be replaced with the OAuth 2 access token.

Uploading a file from NSFileHandle using upload sessions with every error case handled using the SwiftyDropbox library

This uses the [SwiftyDropbox library](#) to upload a file from a `NSFileHandle` to the Dropbox account using upload sessions, handling every error case:

```
import UIKit
import SwiftyDropbox

class ViewController: UIViewController {

    // filled in later in doUpload:
    var fileHandle : NSFileHandle? = nil
    var data : NSData? = nil

    let chunkSize = 5 * 1024 * 1024 // 5 MB
    var offset = 0
    var sessionId = ""

    // replace this with your desired destination path:
    let destPath = "/SwiftyDropbox_upload.txt"

    override func viewDidLoad() {
        super.viewDidLoad()

        Dropbox.authorizedClient = DropboxClient(...)

        doUpload()
    }

    override func didReceiveMemoryWarning() {
        super.didReceiveMemoryWarning()
    }

    func doUpload() {

        // replace this with the path to the file you want to upload
        let filePath = "/path/to/file"
        print("Getting file at \(filePath) for uploading...")
        fileHandle = NSFileHandle.init(forReadingAtPath: filePath)!

        print("Using chunked uploading with chunk size \(chunkSize)...")
        uploadFirstChunk()

    }

    func uploadFirstChunk() {
        data = fileHandle!.readDataOfLength(chunkSize)
        let size = data!.length
        print("Have \(size) bytes to upload.")
        Dropbox.authorizedClient!.files.uploadSessionStart(input:data!)
            .response { response, error in
                if let result = response {
                    self.sessionId = result.sessionId
                    self.offset += size
                    print("So far \(self.offset) bytes have been uploaded.")
                    self.uploadNextChunk()
                } else if let callError = error {
                    print("uploadSessionStart failed")
                }
            }
    }
}
```



```

switch callError as CallError {
case .RouteError(let error, let requestId):
    print("RouteError[\(requestId)]: \(error)")
case .BadRequestError(let message, let requestId):
    print("BadRequestError[\(requestId)]: \(message)")
case .HTTPError(let code, let message, let requestId):
    print("HTTPError[\(requestId)]: \(code): \(message)")
case .InternalServerError(let code, let message, let requestId):
    print("InternalServerError[\(requestId)]: \(code): \(message)")
case .OSError(let err):
    print("OSError: \(err)")
case .RateLimitError:
    print("RateLimitError")
}
}
}

func uploadNextChunk() {
    data = fileHandle!.readDataOfLength(chunkSize)
    let size = data!.length
    print("Have \(size) bytes to upload.")
    if size < chunkSize {
        print("Last chunk!")
        Dropbox.authorizedClient!.files.uploadSessionFinish(
            cursor: Files.UploadSessionCursor(sessionId: self.sessionId, offset:
UInt64(offset)),
            commit: Files.CommitInfo(path: destPath),
            input: data!)
        .response { response, error in
            if let callError = error {
                print("uploadSessionFinish failed")
                switch callError as CallError {
                case .RouteError(let boxed, let requestId):
                    print("RouteError[\(requestId)]:")
                    switch boxed.unboxed as Files.UploadSessionFinishError {
                    case .Path(let writeError):
                        print("Path: ")
                        switch writeError {
                        case .MalformedPath(let malformedPathError):
                            print("MalformedPath: \(malformedPathError)")
                        case .Conflict(let writeConflictError):
                            print("Conflict:")
                            switch writeConflictError {
                            case .File:
                                print("File")
                            case .FileAncestor:
                                print("FileAncestor")
                            case .Folder:
                                print("Folder")
                            case .Other:
                                print("Other")
                            }
                        case .DisallowedName:
                            print("DisallowedName")
                        case .InsufficientSpace:
                            print("InsufficientSpace")
                        case .NoWritePermission:
                            print("NoWritePermission")
                        case .Other:
                            print("Other")
                    }
                }
            }
        }
    }
}

```

```

        }
        case .LookupFailed(let uploadSessionLookupError):
            print("LookupFailed:")
            switch uploadSessionLookupError {
            case .Closed:
                print("Closed")
            case .IncorrectOffset(let uploadSessionOffsetError):
                print("IncorrectOffset: \(uploadSessionOffsetError)")
            case .NotFound:
                print("NotFound")
            case .NotClosed:
                print("NotClosed")
            case .Other:
                print("Other")
            }
        case .TooManySharedFolderTargets:
            print("TooManySharedFolderTargets")
        case .Other:
            print("Other")
    }
    case .BadInputError(let message, let requestId):
        print("BadInputError[\(requestId)]: \(message)")
    case .HTTPError(let code, let message, let requestId):
        print("HTTPError[\(requestId)]: \(code): \(message)")
    case .InternalServerError(let code, let message, let requestId):
        print("InternalServerError[\(requestId)]: \(code): \(message)")
    case .OSError(let err):
        print("OSError: \(err)")
    case .RateLimitError:
        print("RateLimitError")
    }
    } else if let result = response {
        print("Done!")
        print(result)
    }
    }
} else {
    Dropbox.authorizedClient!.files.uploadSessionAppendV2(
        cursor: Files.UploadSessionCursor(sessionId: self.sessionId, offset:
UInt64(offset)),
        input: data!)
    .response { response, error in
        if error == nil {
            self.offset += self.chunkSize
            print("So far \(self.offset) bytes have been uploaded.")
            self.uploadNextChunk()
        } else if let callError = error {
            print("uploadSessionAppend failed")
            switch callError as CallError {
            case .RouteError(let boxed, let requestId):
                print("RouteError[\(requestId):")
                switch boxed.unboxed as Files.UploadSessionLookupError {
                case .Closed:
                    print("Closed")
                case .IncorrectOffset(let uploadSessionOffsetError):
                    print("IncorrectOffset: \(uploadSessionOffsetError)")
                case .NotFound:
                    print("NotFound")
                case .NotClosed:
                    print("NotClosed")
                case .Other:

```

Credits

S. No	Chapters	Contributors
1	Getting started with Dropbox API	Community , eckes , Greg
2	Downloading a file	Cristiam Mercado , Greg , Tom
3	Getting a shared link for a file or folder	Greg
4	Getting account information	Greg
5	Getting file metadata	Greg
6	Listing a folder	Greg , Jens Kohl , TheExeLab
7	Sharing a file	Greg
8	Sharing a folder	Greg
9	Uploading a file	Greg , smarx , user277754