For the El Grito de Sunset Park project we used the following script to create an inventory spreadsheet of videos we'd stored in a Google Drive.

Using Google App Script to Inventory Video

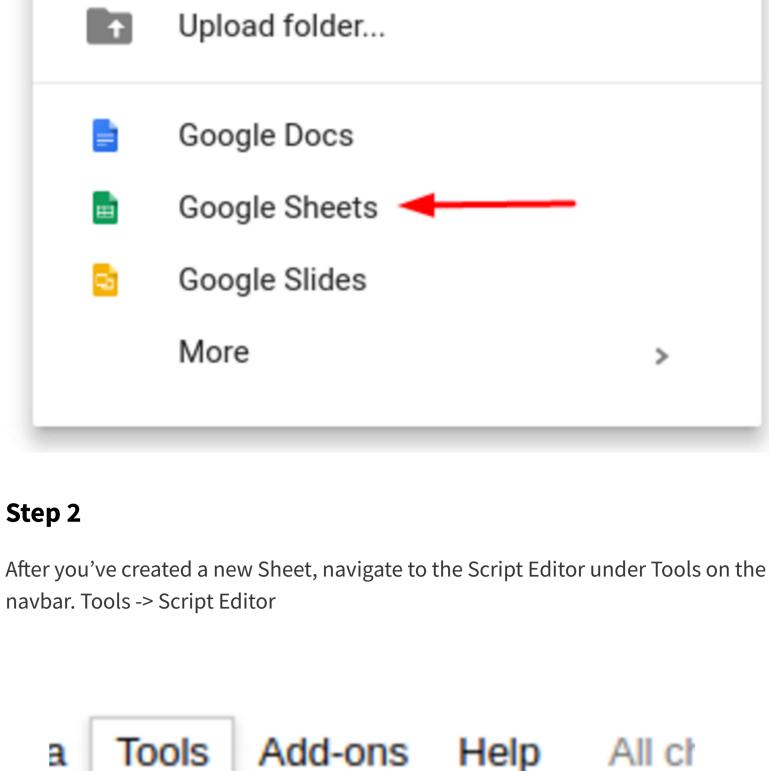
The Google app script below lists all Google Drive links of files, folders and sub

folders and writes to a Google Sheet. (Credit: Krishna, Tech Ink) You'll need to have a Google Account to create a video inventory this way. If you

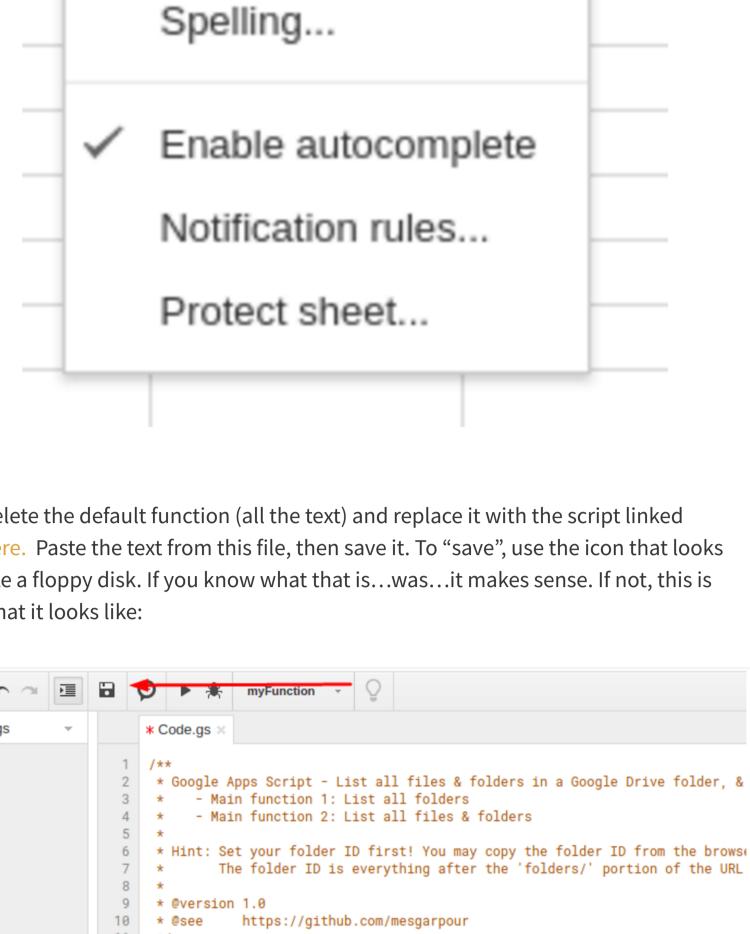
Step 1 Create a new Google sheet file on your Google drive.

don't have a Google Docs account, you can create one here: Create a Google Docs

Account. It's free.



Script editor... Е



For example – if your google drive folder is https://drive.google.com/drive/u/0/folders/0Bz9C0ysJZ7PnMGZerwcybUpXWGM

The folder ID is the string of numbers and letters following /folders/. In the link

After you've saved the new function replace the text reading 'My folder ID' with the

listAll

Code.gs ×

on myFunction and select listAll.

folderID where your Google Sheet is saved.

listAll /** files getFolderTree

getChildFolders

* Hint: Set your folder ID first! You

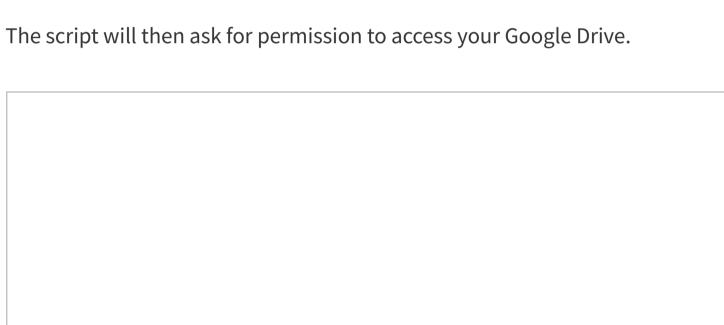
The folder TD is everything a

fold

file

listFolers

After you've set your folder ID, select "save" again. After you've saved the file, click



Deploy as API executable... Deploy as Sheets web add-on...

Manage Android add-ons...

Deploy as web app...

Resources

Help

files & f

Spreadsheets

folders Test as add-on... files & 4 5 * Hint: Set your folder ID first! You may The folder ID is everything after When you select "Test as add-on...", you be prompted to configure a new test. When you see this, click on "Select Doc" and pick your spreadsheet — the one you created way back in Step 1.

then and click test.

Finally, select "Script editor" from Tools -> Script editor and select the run button. The script will populate your spreadsheet with a list of all the folders and files in the drive you've selected. The list will include the full path to each file, including a direct URL to each asset and directory. You can export the data to CSV, XLS or any format supported by Google Sheets. **NOTE: ADJUSTING THE SCRIPT** You can adjust the script if you want it to collect additional details like the "Owner" of the files that you are inventorying. This script uses Google Apps Script's Drive and Spreadsheet services to access Google Drive and populate the spreadsheet. Check Google's Drive Service and the Spreadsheet Service reference guides to see the full range of endpoints/methods and parameters that are available. **EXAMPLE:** To add the "Owner", you will need to modify the script in two places. First, add a column with the label "Owner" to the spreadsheet by adding the word "Owner" to the list of values that will be passed to the method that is creating the spreadsheet rows and columns (on line 36). 13 // TODO: Set fo<u>lder ID</u> 14 var folderId =

Next, to get the owner names from Google Drive to add to the spreadsheet, add a request by first putting a "," after "childFile.getSize()" on line #78. Now hit enter and then add the line "childFile.getOwner().getName()" to line #79.

sheet.appendRow(["Full Path", "Name", "Date", "URL", "Last Updated", "Description", "Size", "Owner"]);

parentName + "/" + childFolder.getName(), 56 childFolder.getName(), 57 childFolder.getDateCreated(), 58 childFolder.getUrl(), 59 childFolder.getLastUpdated(), 60 childFolder.getDescription(), 61 childFolder.getSize() 62 // Write 63 64 sheet.appendRow(data); 65 66 // List files inside the folder 67 var files = childFolder.getFiles(); 68 while (listAll & files.hasNext()) { 69 var childFile = files.next(); 70 // Logger.log("File Name: " + childFile.getName()); 71 72 parentName + "/" + childFolder.getName() + "/" + childFile.getName(), childFile.getName(), 73 74 childFile.getDateCreated(), 75 childFile.getUrl(), childFile.getLastUpdated(), 76 77 childFile.getDescription(), childFile.getSize(), 78 79 childFile.getOwner().getName() ADD HERE 80 Now you can save your edited script and hit "Run".

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11 12 13 // TODO: Set folder ID 14 var folderId = 'My folder ID'; 15 16 // Main function 1: List all folders, & write into the current sheet. 17 | function listFolers(){ getFolderTree(folderId, false); 18 19 }; // Main function 2: List all files & folders, & write into the current sheet function listAll(){ getFolderTree(folderId, true);

New folder... Upload files...

Delete the default function (all the text) and replace it with the script linked here. Paste the text from this file, then save it. To "save", use the icon that looks like a floppy disk. If you know what that is...was...it makes sense. If not, this is what it looks like:

0Bz9C0ysJZ7PnMGZerwcybUpXWGM // TODO: Set folder ID var folderId = '0Bz9C0ysJZ7PnQk345iu38945'; Step 4

above, that would be:

Step 3

* Google A 3 - Mai - Mai

After selecting "listAll", click the Run button (play icon) to start the script.

5

6

Step 5

Click on "Review Permissions" > Allow

Step 6 After you've finished authorizing, select Publish from the navbar > Test as add-on. This will allow the function to run on your spreadsheet. Run

Publish

Step 7

Save the test add-on. In the execute saved test, select the radio button displaying your spreadsheet, then and click test.

Select an item

Forms

Documents

Spreadsheets

Files

Step 8 In the execute saved test, select the radio button displaying your spreadsheet,

Step 9

16 // Main function 1: List all folders, & write into the current sheet. 17 function listFolers(){ 18 getFolderTree(folderId, false); 19 }; 20 21 // Main function 2: List all files & folders, & write into the current sheet. 22 function listAll(){ getFolderTree(folderId, true); 24 }; 25 26 // ==========

27 // Get Folder Tree 28 function getFolderTree(folderId, listAll) { 29 try { 30 31 32 33 34 35 36 37

// Get folder by id

// Initialise the sheet

var parentFolder = DriveApp.getFolderById(folderId);

var file, data, sheet = SpreadsheetApp.getActiveSheet();

Hit enter again. // List folders inside the folder 51 while (childFolders.hasNext()) { 52 var childFolder = childFolders.next(); 53 // Logger.log("Folder Name: " + childFolder.getName()); 54 55

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