Classroom Tracking Tutorial

Classroom Tracking Tutorial	1
Creating a google script	2
Question sheet	10
Response sheet	14
Putting this all together in Classroom Tracker	15

To understand how to use classroom tracking, let's create a very basic maths lesson, and track the progress of the students in it. First, we need to make a worksheet the students can access. Here's my example worksheet:

https://docs.google.com/document/d/1F1hIJ-8gXZj_jgYzyGu9qnOmqTrS_R22Z-ysAMA_DK_c/edit?usp=sharing

You can see in the above worksheet that there are questions the students complete using an online link. Their responses are sent to:

https://docs.google.com/spreadsheets/d/1mP1KPKptbeLn_6vpFOipmS6BNGG9zlBkHWt1kc 966XY/edit?usp=sharing

This is your main way of telling whether students gave the correct response or not. As this is a google spreadsheet, you can take advantage of some spreadsheet functionality to help you keep track of how the students are doing.

The questions are determined by the spreadsheet at:

https://docs.google.com/spreadsheets/d/1sM9jD6Pe9fkXw9mn_vj-4D-lw1c6BPSNXeP0yVPiHcg/edit?usp=sharing

You can download the resources above directly, or from the github repository:

Worksheet

https://raw.githubusercontent.com/some-open-solutions/classroom-tracking/master/example s/Correlation Workshop Example.docx

Question spreadsheet

https://raw.githubusercontent.com/some-open-solutions/classroom-tracking/master/example s/Correlation Example Questions.xlsx

Response spreadsheet

https://raw.githubusercontent.com/some-open-solutions/classroom-tracking/master/example s/Correlation Example Responses.xlsx

Creating a google script

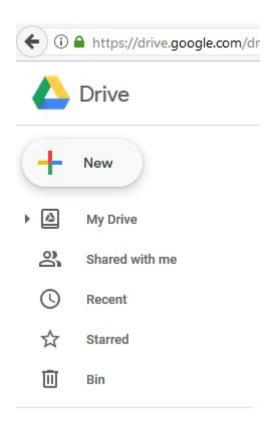
A free way to do this is use google scripts functionality. The first, and most important step, is to

set up a new google account for this! This script will allow anyone to write to your google account (which is the point). Whilst this should be done in a very controlled way, if there are any security issues with the script you are making your content on the account vulnerable.

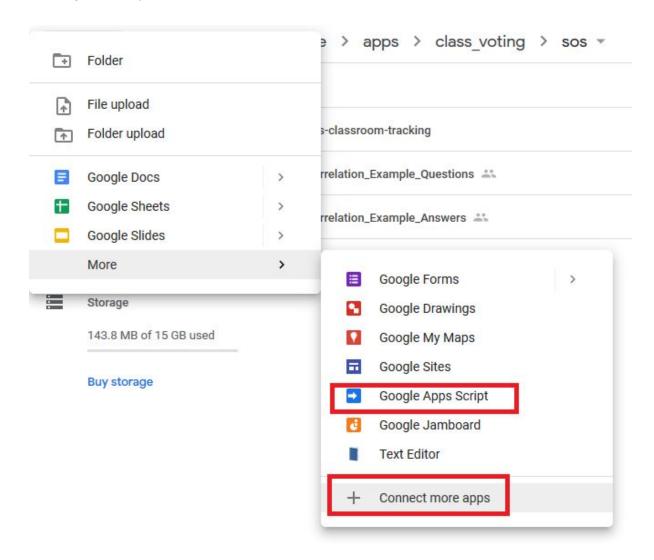
Once you have created a specific google account for classroom-tracking, you need a copy of the script you'll use. This should be available at:

https://some-open-solutions.github.io/classroom-tracking/google-script.js. Just select all the code there and copy it (e.g. to notepad).

Now we need to create a script on your new google drive account. Click on the new button in the top left corner:

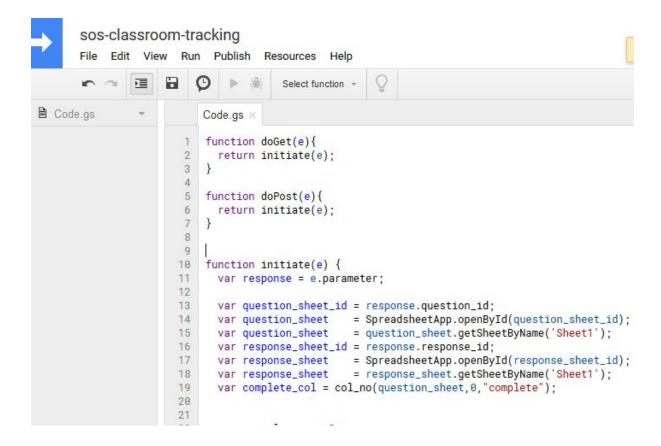


You might already be able to add a script, or **connect** scripts as a new app:



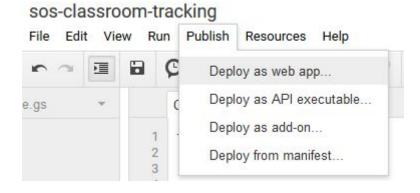
If you need to connect google scripts, click on the **+ Connect more apps** button and then install it. You should then be able to repeat the previous steps to select **Google Apps Script** option above.

When you're in the new script, copy and paste the code for the google script into it (make sure to delete the default code first!). Your script should look something like:

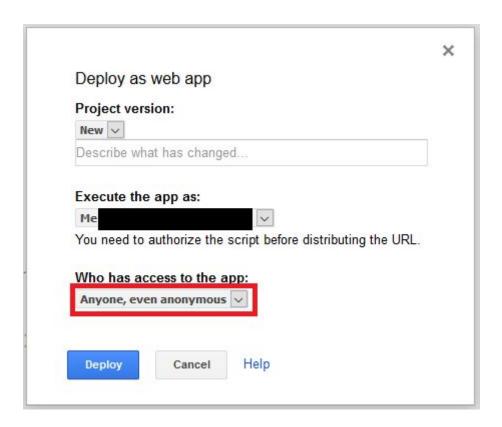


If you have two **doGet**s at the top, you need to delete the original ones.

Once you have the above script, you need to save it, and then publish it! To publish, click on **Publish** and then **Deploy as web app...**



After which you should see the following:

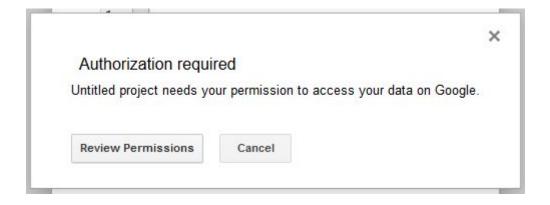


Importantly, you need to execute the app as yourself, which should be the default option ("Me ([your e-mail address])

You need to change the setting for **Who has access to the app** to "Anyone, even anonymous". This allows your students to submit responses, so it is **not optional**.

Once you have made the setting look, as the above, you can click **Deploy**.

You should now see something like:



Select **Review Permissions** to proceed.

After selecting the account you've been using (AGAIN, NOT YOUR PERSONAL ACCOUNT) you should see something like:



This app isn't verified

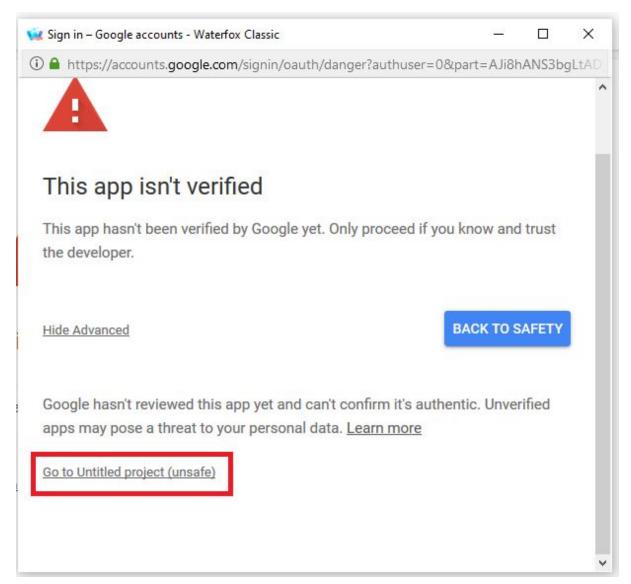
This app hasn't been verified by Google yet. Only proceed if you know and trust the developer.

Advanced



That's right, it's not a good idea to do this unless you trust the developer. Another reason not to use your personal gmail account!

Assuming that you're using the new gmail account you created just for this classroom tracking, you can click on the **Advanced** link above. Then you should see:



Click now on **Go to [your project name] (unsafe)**. Ideally, you'll now see something like:

Untitled project wants to access your Google Account



This will allow Untitled project to:

See, edit, create and delete your spreadsheets in Google Drive

Make sure that you trust Untitled project

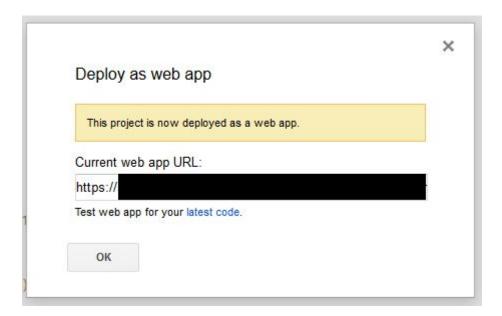
You may be sharing sensitive info with this site or app. Find out how Untitled project will handle your data by reviewing its terms of service and privacy policies. You can always see or remove access in your Google Account.

Find out about the risks

Cancel

Allow

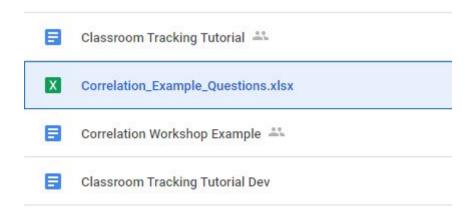
The next step is to click on **Allow** and then you should be able to proceed, and get the url of your script!



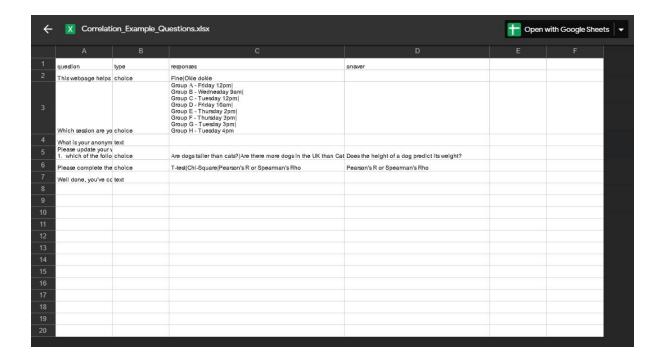
This is the **Script url** we will be referring to later.

Question sheet

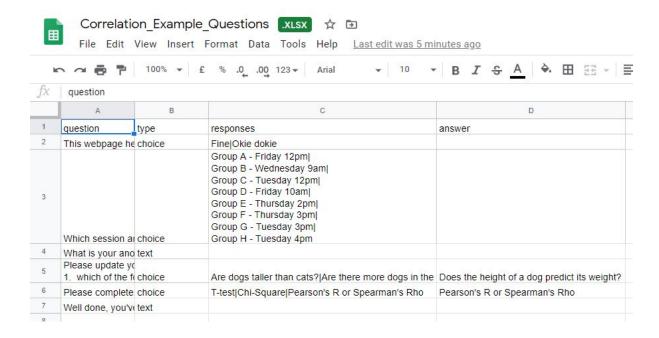
The easiest way to have a working question sheet is to download the <u>example question</u> <u>sheet</u> and upload it to your google drive. Once you have done uploaded it, the folder you uploaded it to might look something like this:



When you try to open the sheet, it may not be ready to be used as a google sheet yet, you you may get something like:



Click on the **Open with Google sheets** button to proceed. Once google has converted it, you should now see:



... which means you're ready to start editing. The four columns:

question: This is the text you want the student to see when looking at the question. This is html code, so if you want a line break you'll need to write
br> instead of just enter (press CTRL-Enter in google sheets to get a line break).

type: there are two types of questions you can give at the moment:

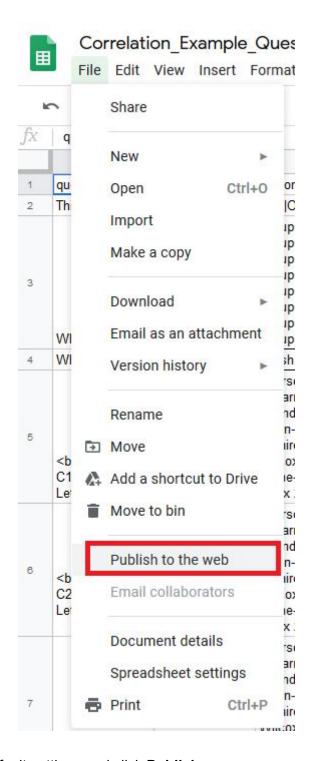
- choice: these are multiple choice questions (see responses and answer)
- text: this is just a text input

responses: this is only relevant for (multiple) choice questions. To separate the responses the student can give, put a pipe (|) between each possible response. On a british windows keyboard, the pipe key is to the left of the Z key (and you need to press shift).

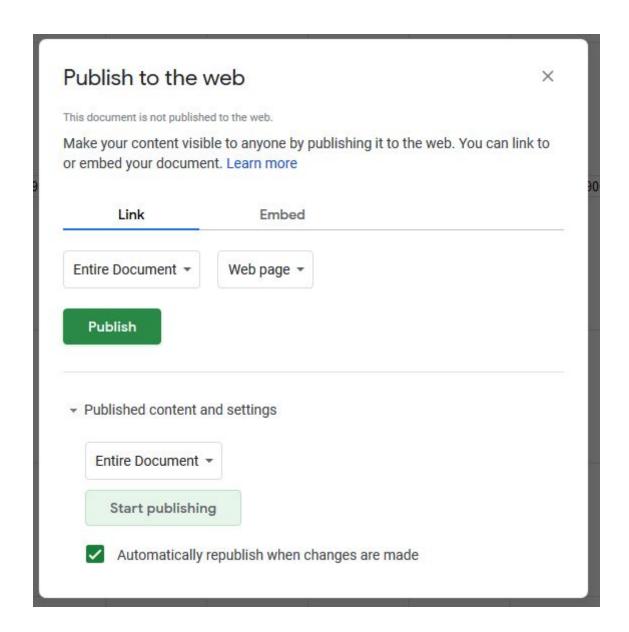
answer: this is the correct answer. The student will not be able to proceed until they've given the correct answer. This only works for (multiple) *choice* questions at the moment.

You can now edit the sheet to ask the questions you want.

Once you have completed the question sheet, you need to publish it for Classroom tracking to be able to find it. To do this, click on **Publish to the web:**



And then leave the default settings and click Publish:



This spreadsheet is now published, so Classroom Tracker can now find it. Classroom tracker needs the **sheet id**, which is part of the URL of the sheet you've just published. The ID of the example question sheet is **1sM9jD6Pe9fkXw9mn_vj-4D-lw1c6BPSNXeP0yVPiHcg**. This is part of:

https://docs.google.com/spreadsheets/d/1sM9jD6Pe9fkXw9mn_vj-4D-lw1c6BPSNXeP0yVPiHcg/edit

Take the same relative part of your spreadsheet URL to get the **sheet id** that you will need for the **question sheet** input later.

Response sheet

Again, the simplest way to get started is to download the <u>example response spreadsheet</u> and upload it to your google drive space as described above.

Importantly, you don't need to publish this sheet, you can keep this private if you're the only person who needs to see the responses. However, you may want to share this sheet with other teaching staff if there are a few of you who will be giving students feedback.

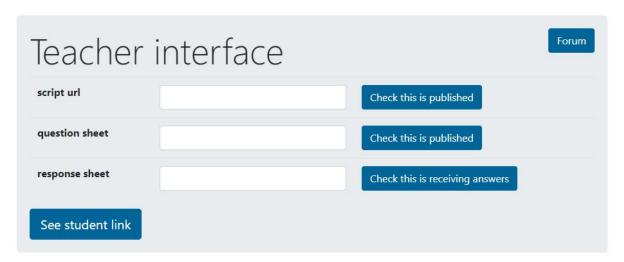
All you need to do is get the sheet id as described above. Using the example responses sheet, the url for it is:

https://docs.google.com/spreadsheets/d/1mP1KPKptbeLn_6vpF0ipmS6BNGG9zIBkHWt1 kc966XY/edit#gid=0

So the code **sheet id** is 1mP1KPKptbeLn_6vpFOipmS6BNGG9zIBkHWt1kc966XY, which is what we'll need for the **response sheet** input next.

Putting this all together in Classroom Tracker

Once you've done the previous steps, you're ready to create a link for your students. Go to https://some-open-solutions.github.io/classroom-tracking and you should see something like this:



This system allows you to see on a spreadsheet what answers your students are giving in real time as the complete the link you create by filling in the above inputs.

To use this with google (i.e. for free and without managing a server), you will need to copy this google script

Instructions for using this can be found here.

Fill in the above inputs with the links you created earlier, and then click on **See student link** to pilot out the class.