## Sign up for a Google Cloud Platform Account and API key

Google's "Google Cloud Platform" (GCP) is Google's cloud provider, much like Amazon's "Amazon Web Services" (AWS) and Microsoft's "Azure" cloud offerings.

GCP provides access to a very large number of "Application Programming Interfaces" (APIs).

Among those offerings and relevant for our course in particular is Google Maps for Android.

Google Maps for mobile usage is actually <a>[offered as a free service]</a>.

However, use of the GCP requires a billing account (because eventually Google wants to charge for their non-free services). Unfortunately, your <code>email@vt.edu</code> accounts do not qualify as a billing account.

As a result there are two options available to make use of the free Google Maps for Android Services.

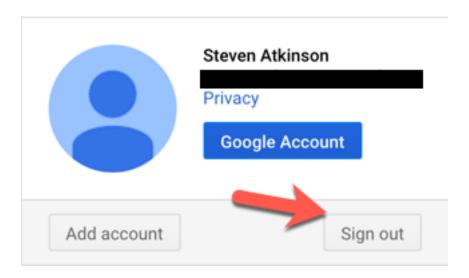
## **Option 1: Use Dr Atkinson's API Key**

AIzaSyDSR-GaTnvEfPfAWCv-6yH285wwBdzCv5c

## Option 2: Create a fresh Google account and request an API Key

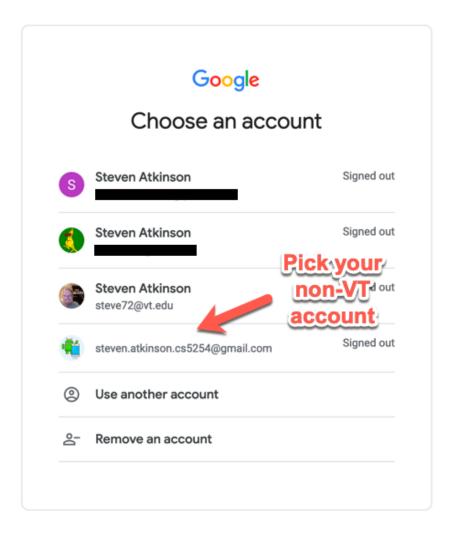
Create a new google account or use an existing personal Google account.

Sign out of any google accounts.

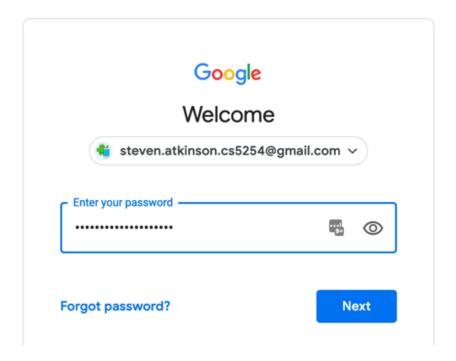


Make a request for a new android API key.

You will be asked to choose an account. Pick your non-VirginiaTech account you just made or are using.

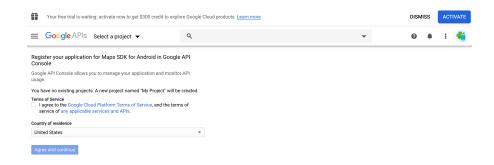


Enter your password and confirm your account protection method if this is a new account.



You will arrive on this screen. For now, ignore activating the free trial.

Read and then agree to the terms of service and let them create a new project called "My Project" for you as they describe.



It may take a minute but you will then get prompted to create an API key.

Go ahead and click that button!

## The API is enabled

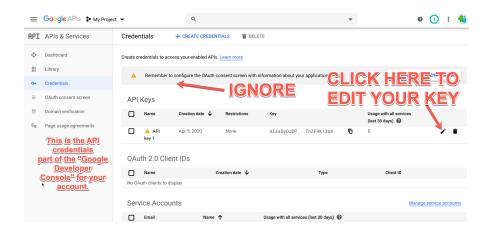
The project has been created and Maps SDK for Android has been enabled.

Next, you'll need to create an API key in order to call the API.

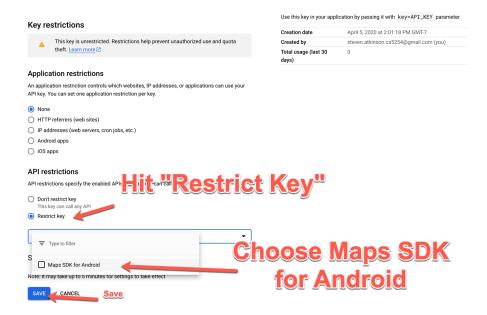
Create API key

You will be taken to the API key section of your Google Developers Console.

We should ignore that warning about consent screens (it is irrelevant for our application) and go ahead to edit our API Key.



We are going to put an API restriction on this key (but not an application restriction). Let's make sure that the API restriction is in place and SAVE.



Your key should now be ready for use. You can copy it to your clipboard and put it into your application.



Happy Mapping!