

How to Create a Local YouTube Front-End, Quick & Dirty

written by Traveler

You need:

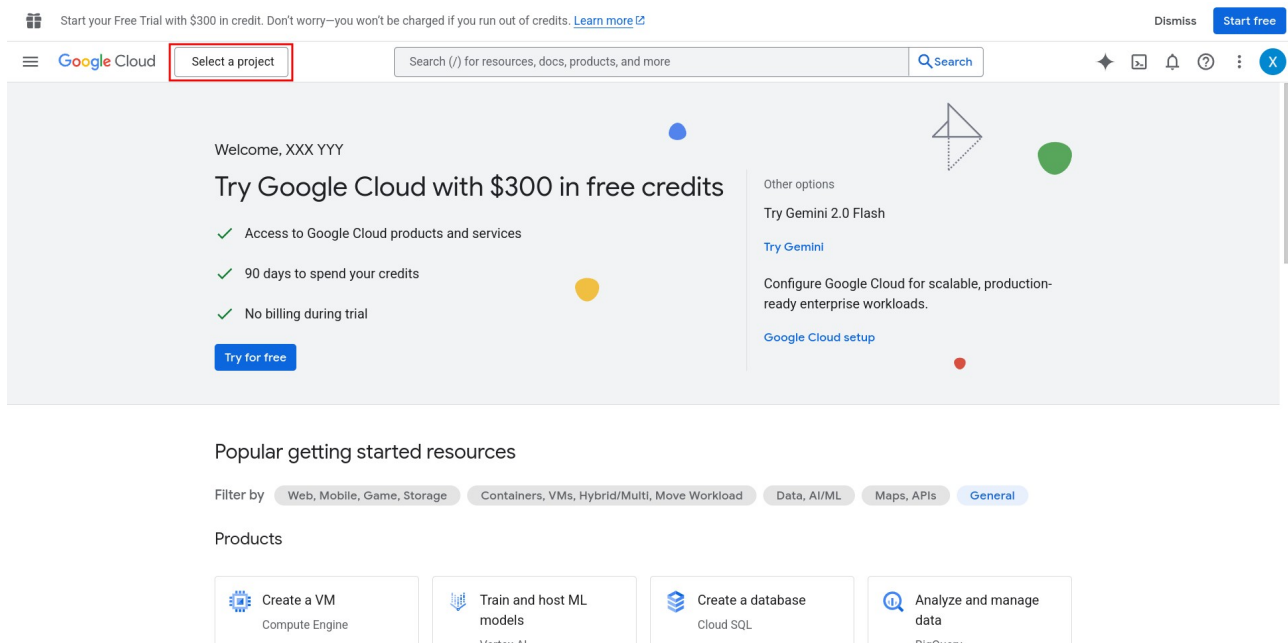
- Gmail account
- API key for YouTube Data API v3
- Python
- Linux (though it could, in theory, work with Windows too)
- Cloned the repository from <https://github.com/EdgeOfAssembly/LocalTube> into LocalTube directory somewhere (I presume you have already done it, otherwise you would not be reading this. Duh!)

First, I assume you already have a Gmail account created.

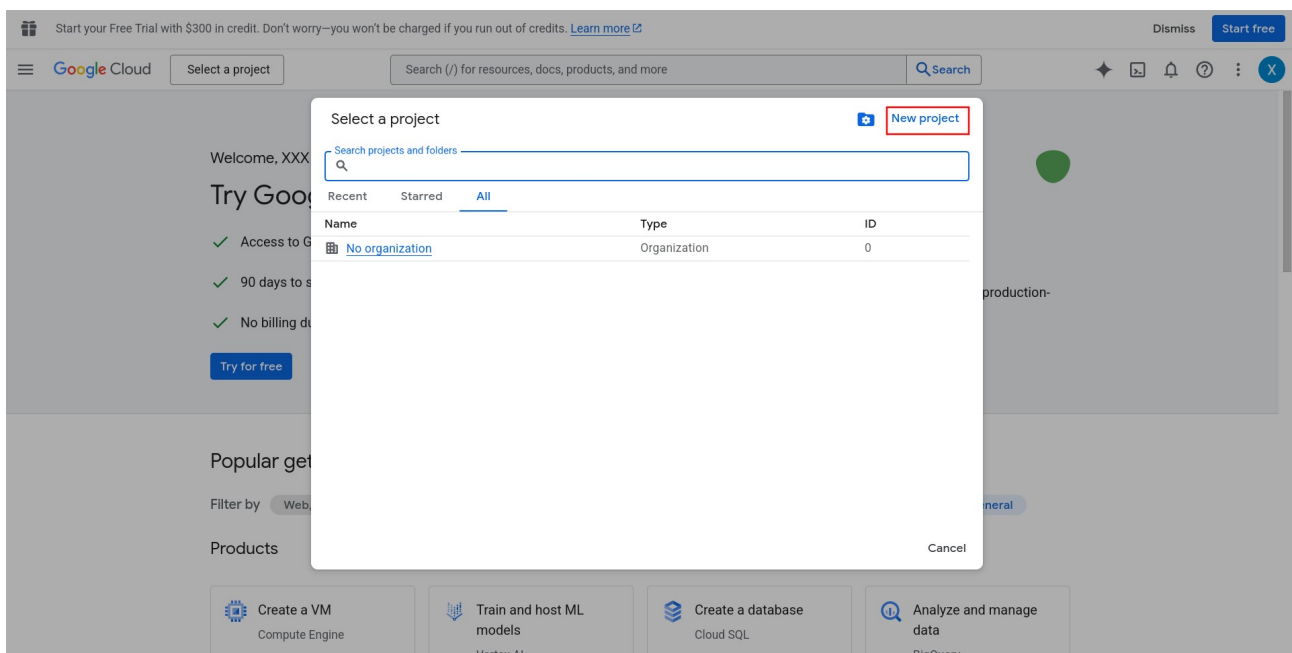
The next step is to create a project (because we can't have an API key without a project).

Go to: console.cloud.google.com and log in with your Gmail account email and password.

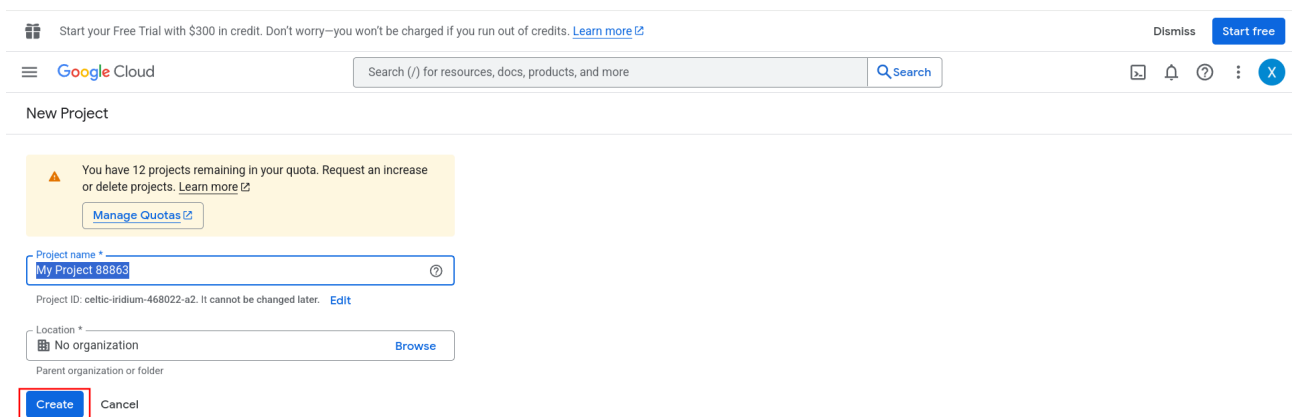
You should see something like this after you agree to the Terms of Service. Click "Select a project."



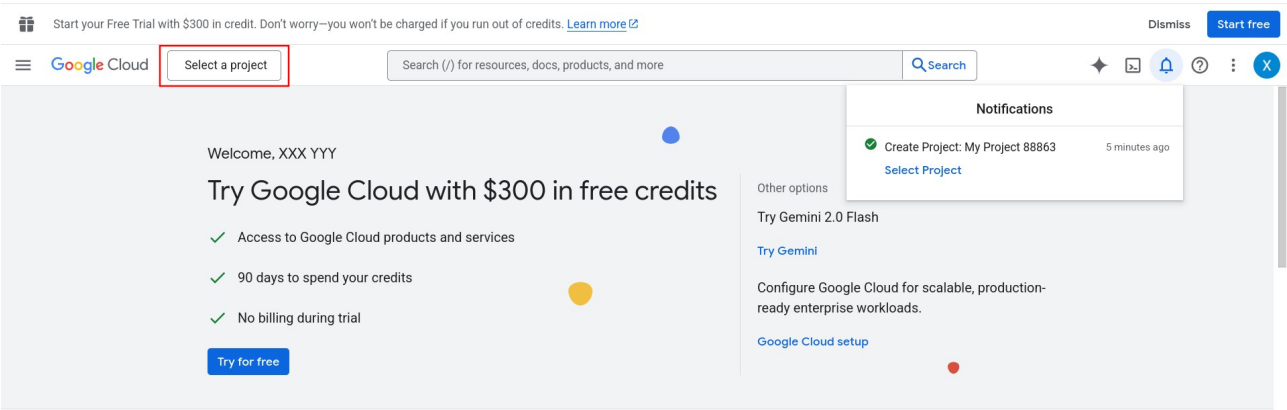
Click "New project."



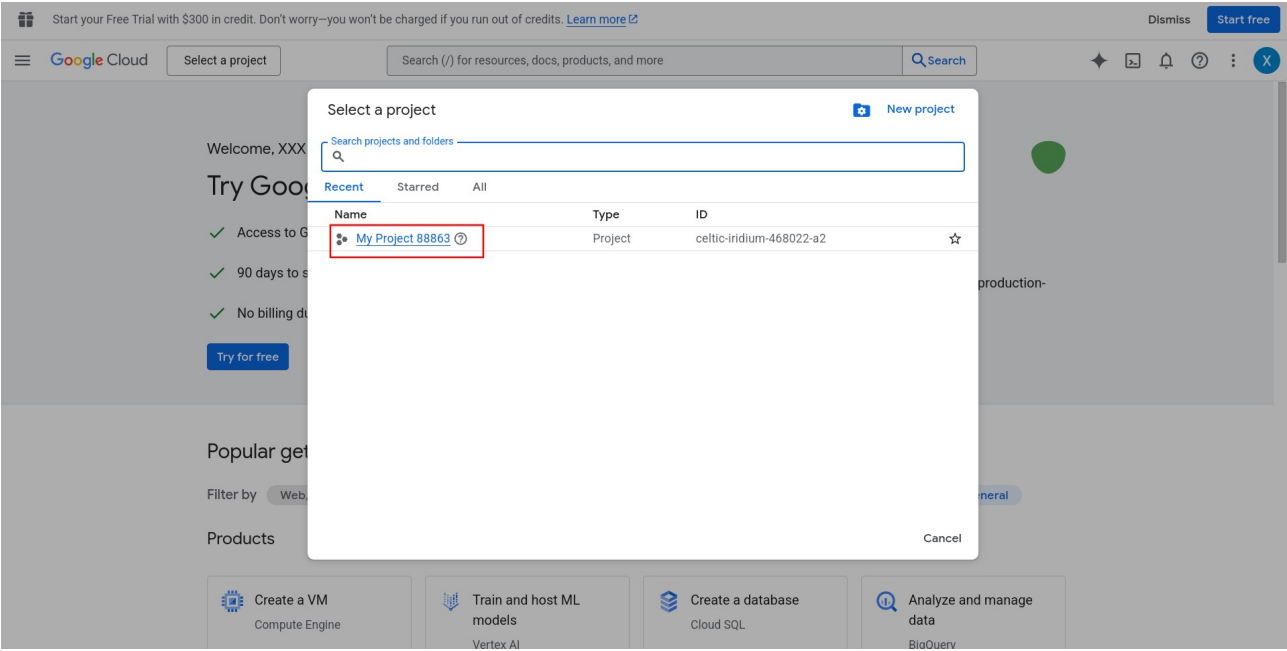
Use the given project name or enter anything you want, then click "Create."



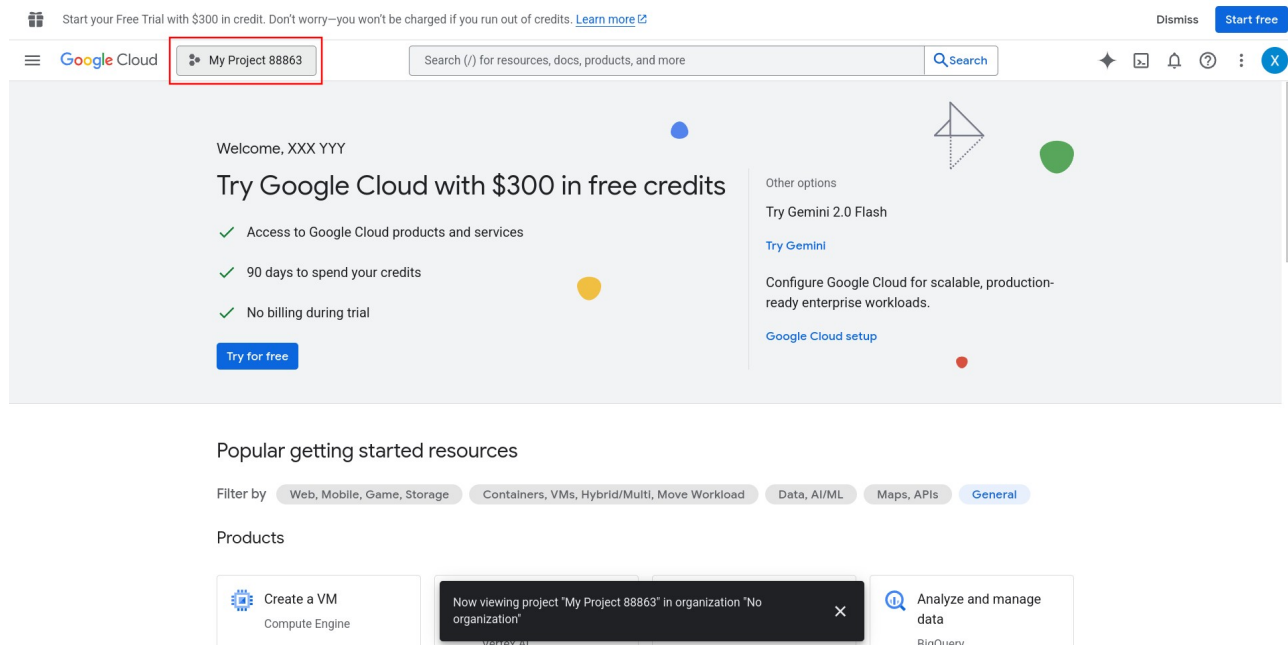
Click "Select a Project" again.



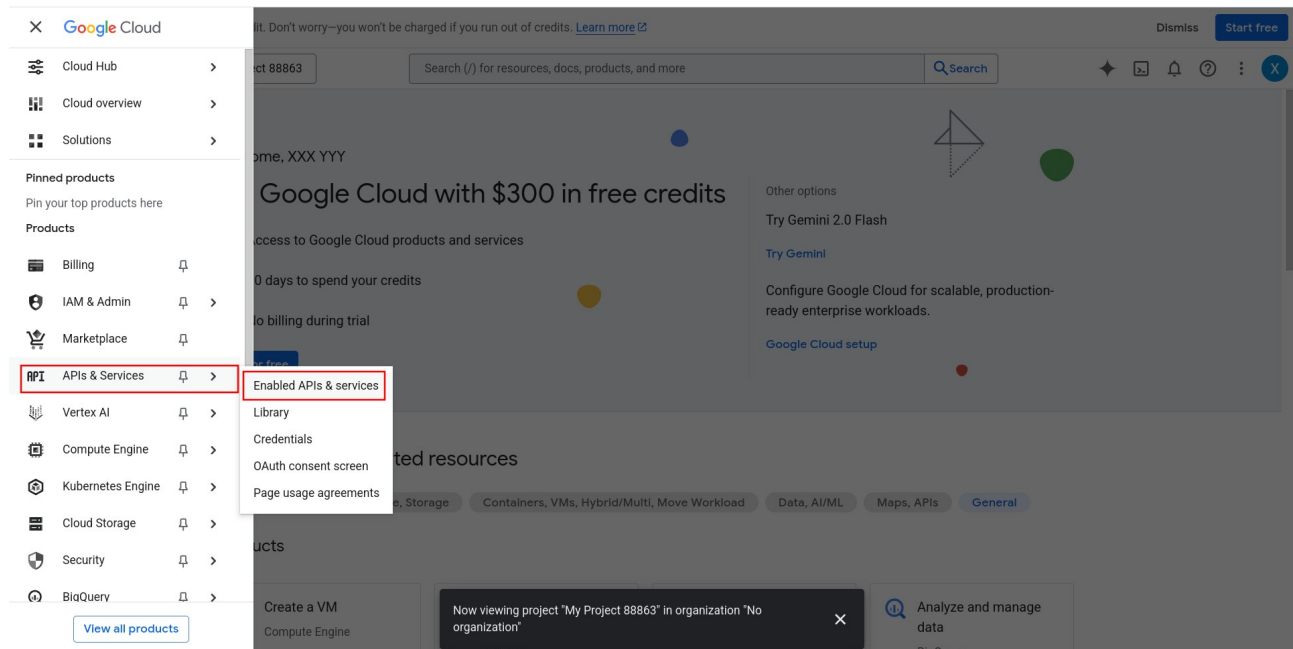
Click your project name.



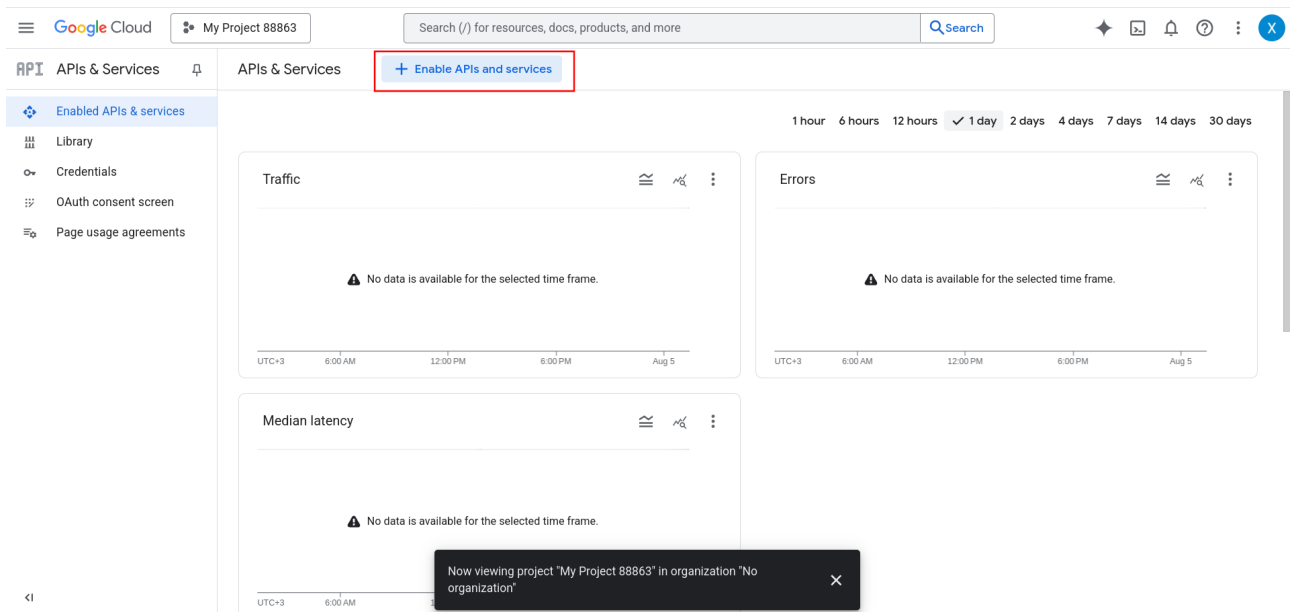
Your project is now selected.



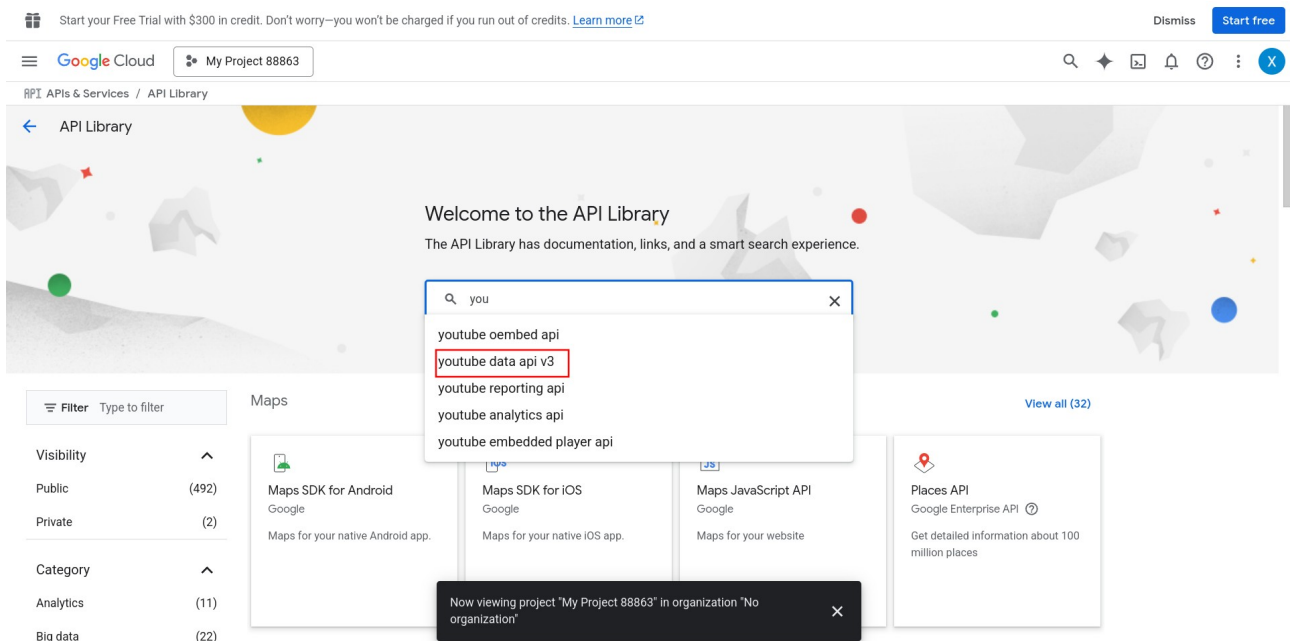
Next, you need to enable the YouTube Data API v3 and get an API key. From the left, open the menu, select "APIs & Services," and then click "Enable APIs & Services."



Then click "Enable APIs and Services" again.



In the search bar, type "you" and select "YouTube Data API v3."



Click the "YouTube Data API v3."

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

Google Cloud My Project 88863

APIs & Services / API Library / Browse

API Library

Search youtube data api v3

API Library > "youtube data api v3"

Filter Type to filter

1 result

YouTube Data API v3
Google
The YouTube Data API v3 is an API that provides access to YouTube data, such as videos, playlists, and channels.

Visibility ^
Public (1)
Category ^
YouTube (1)

Now viewing project "My Project 88863" in organization "No organization"

Click "Enable."

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

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Product details

YouTube Data API v3
Google

The YouTube Data API v3 is an API that provides access to YouTube data, such as videos, playlists,...

Enable Try this API

Overview Documentation Support Related Products

Overview

The YouTube Data API v3 is an API that provides access to YouTube data, such as videos, playlists, and channels.

About Google

Google's mission is to organize the world's information and make it universally accessible and useful. Through products and platforms like Search, Maps, Gmail, Android, Google Play, Chrome and YouTube, Google plays a meaningful role in the daily lives of billions of people.

Additional details

Type: [SaaS & APIs](#)
Last product update: 7/22/22
Category: [YouTube](#)
Service name: youtube.googleapis.com

Now viewing project "My Project 88863" in organization "No organization"

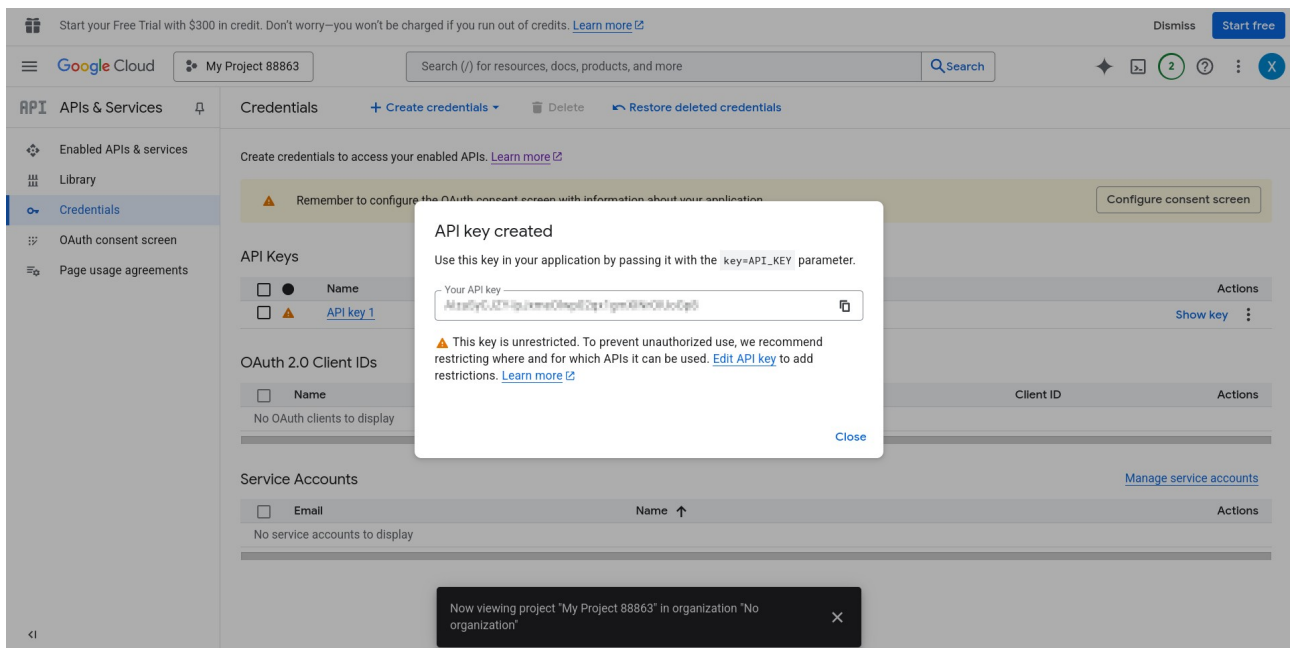
It should show something like this now.

The screenshot shows the Google Cloud console interface. At the top, there's a header with a trial offer and a search bar. The left sidebar shows navigation options like 'Enabled APIs & services', 'Library', 'Credentials', 'OAuth consent screen', and 'Page usage agreements'. The main content area is titled 'API/Service Details' and shows the 'YouTube Data API v3' is enabled. A red box highlights the API details section, which includes the service name 'youtube.googleapis.com', type 'Public API', status 'Enabled', and links for documentation, exploration, and support. Below this, there are tabs for 'Metrics', 'Quotas & System Limits', and 'Credentials'. The 'Metrics' tab is active, showing a graph of traffic by response code. A notification at the bottom states: 'Now viewing project "My Project 88863" in organization "No organization"'.

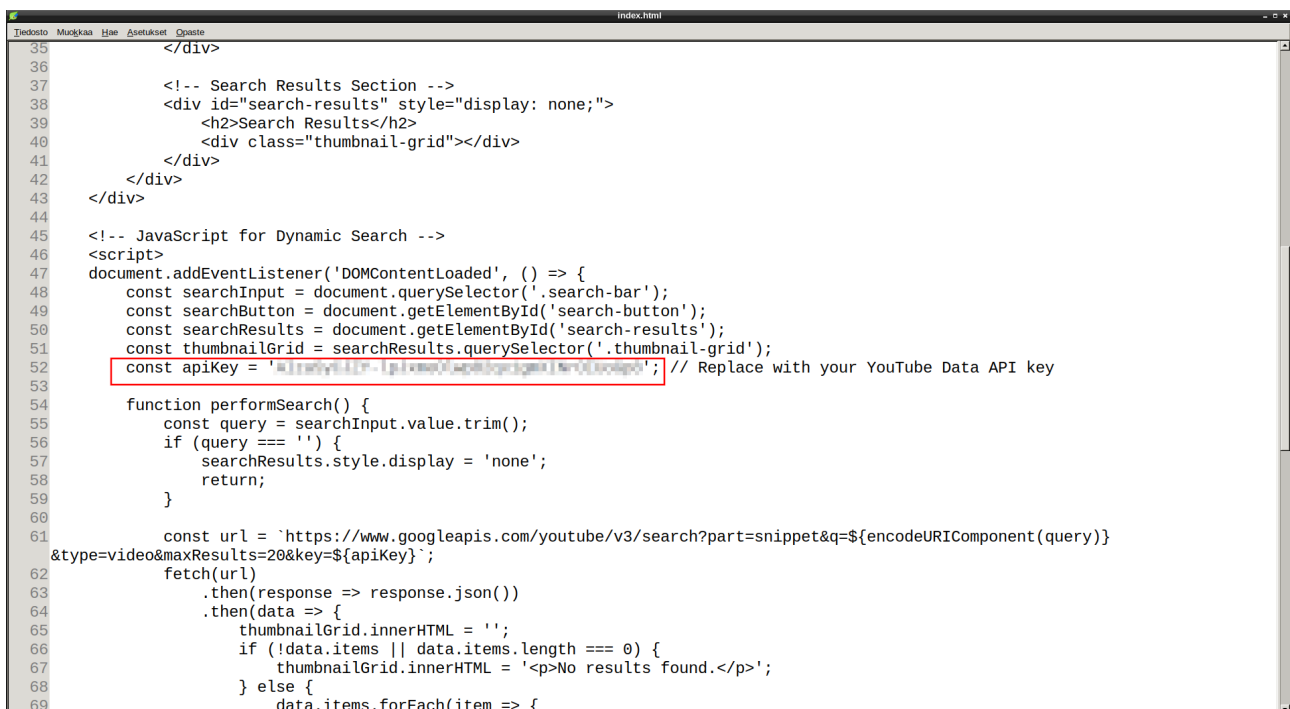
So, the API is now enabled. The only thing needed now is the API key. Click "Credentials," then "Create Credentials," and then "API key."

The screenshot shows the 'Credentials' page in the Google Cloud console. The left sidebar has 'Credentials' selected. The main content area shows a 'Create credentials' button with a dropdown menu open. The dropdown menu lists four options: 'API key', 'OAuth client ID', 'Service account', and 'Help me choose'. The 'API key' option is highlighted with a red box. Below the dropdown, there are sections for 'API Keys', 'OAuth 2.0 Client IDs', and 'Service Accounts', each with a table to manage them. A notification at the bottom states: 'Now viewing project "My Project 88863" in organization "No organization"'.

Copy and paste the generated API key somewhere safe, then log off.



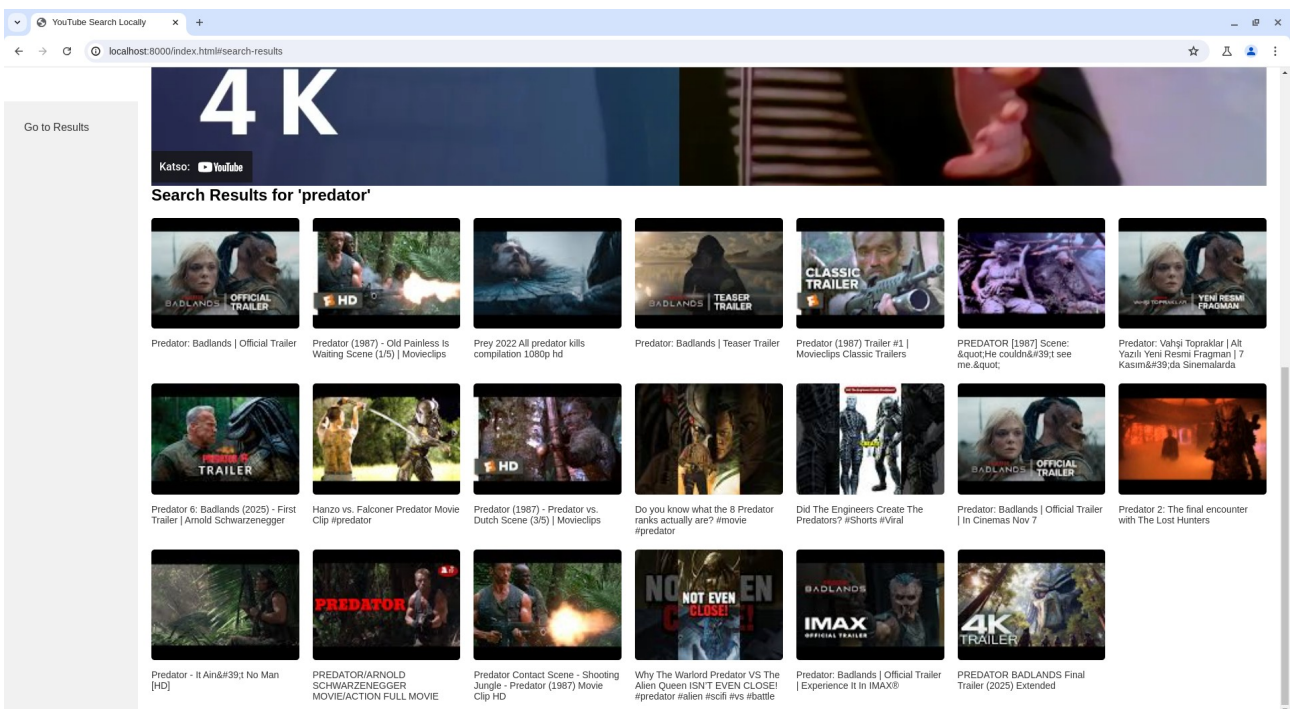
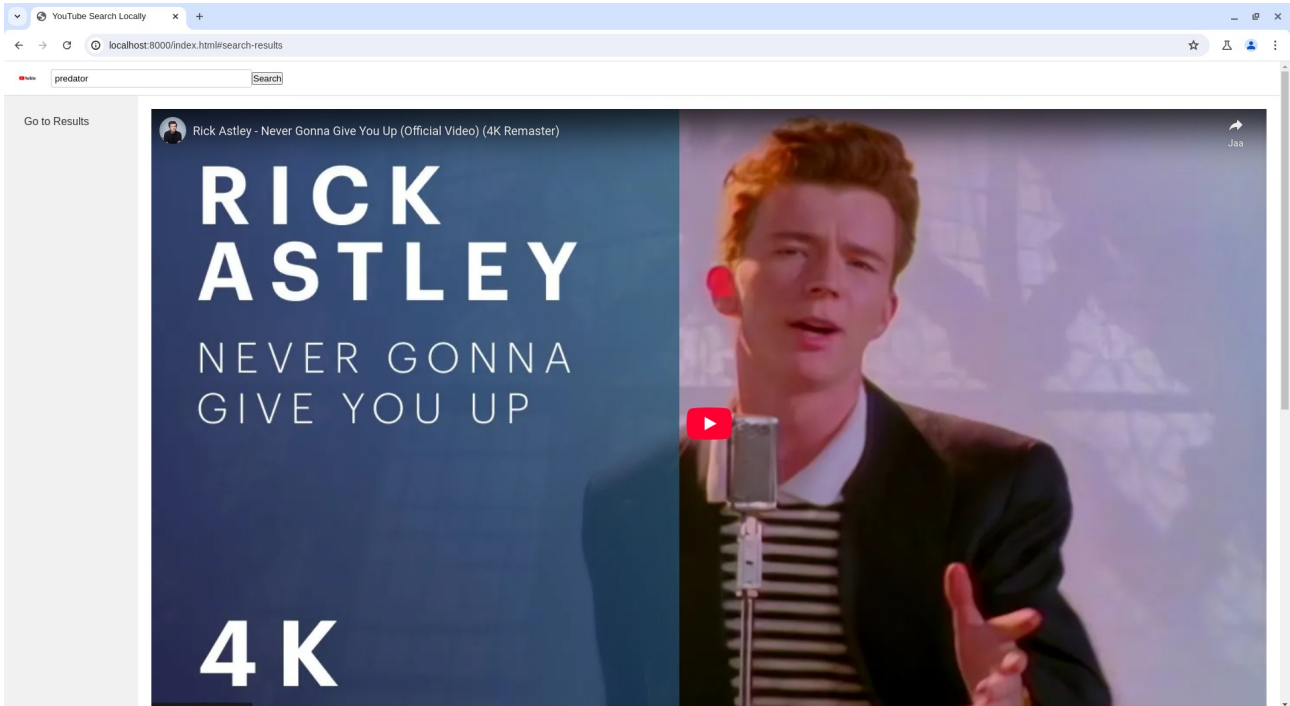
Next, open the `index.html` file, look for the `apiKey` variable (around line 52 or so), paste the API key into it, then save and close.



Start the web server...

```
/tmp/LocalTube $ python -m http.server 8000
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
```

Then open <http://localhost:8000> in your browser. If it works, you should see something like this. You can let Ricky boy sing or search for, let's say, "predator" in the search bar and then click "Go to Results."



Congrats, you now have a local YouTube front-end without Google Analytics or other user-tracking nonsense. Of course, the actual search results and video stream still come from YouTube. If you're adventurous enough, you could even put this on a remote VPS server. The catch? Your free API key allows you to make about 100 requests per day, but it should be more than enough for personal use. BTW, the search results are capped to 20 (hey! this is quick & dirty remember?) but I'm sure you can "hack" it to give more if you want.