



COVID-19 Activity

Project Defense

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Summary

- Introduction
- Context of the project
- Class Diagram
- Analysing data
- GIS
- Developper Setup
- Demo
- Conclusion

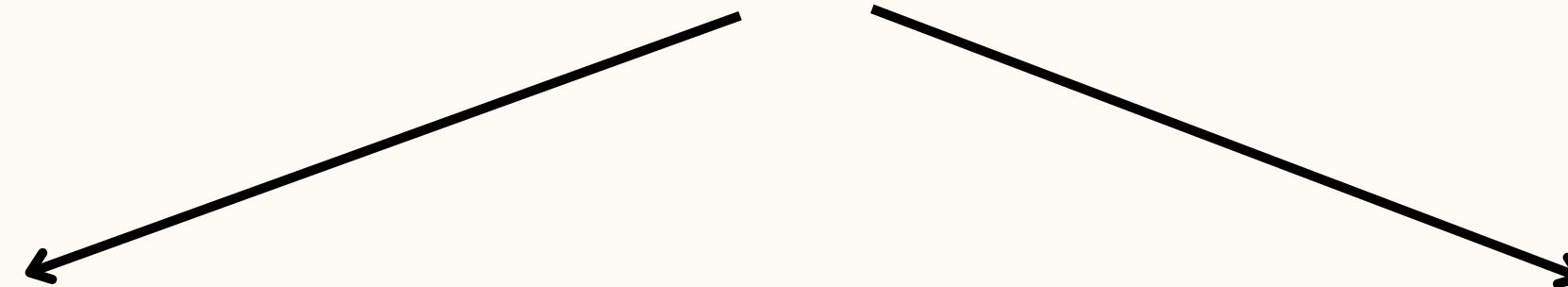
Introduction

Context of the project

Context

- The project as a **complementary training** to our course.
- Its perspective is to link our acquired skillset to a **real-world problem**.

Data



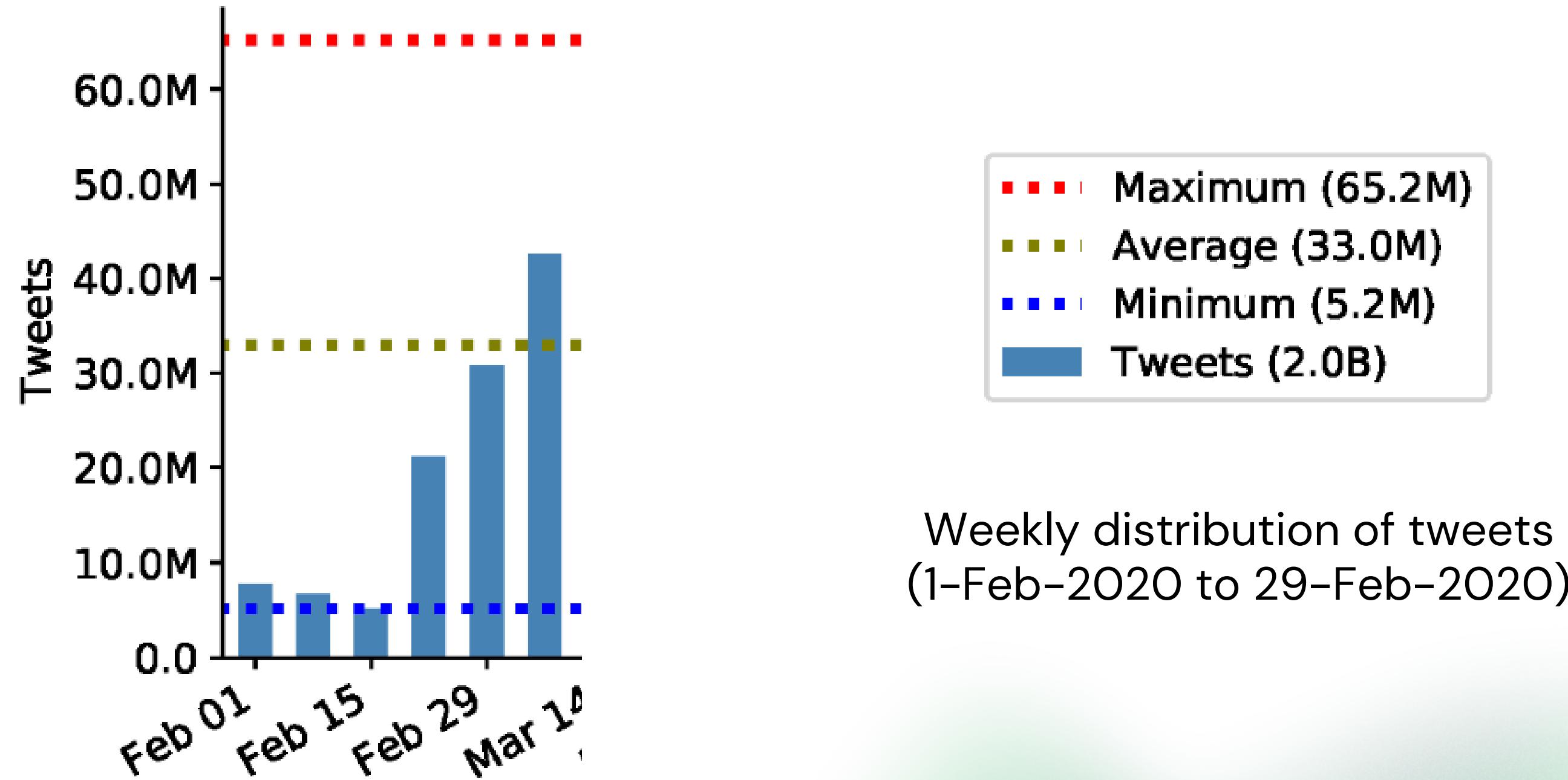
TBCOV

(10000000, 37)

COVID-19 Activity

(2952310, 13)

TBCOV



Features

tweet_id	int64	
date_time	object	
lang	object	
user_id	int64	
retweeted_id	float64	
quoted_id	float64	
in_reply_to_id	float64	
sentiment_conf	float64	
sentiment_label	int64	
user_type	object	
gender_label	object	
tweet_text_named_entities	object	
geo_coordinates_lat_lon	object	
geo_country_code	object	
geo_state	object	
geo_county	object	
geo_city	object	
place_bounding_box	object	
place_country_code	object	
place_state	object	
place_county	object	
place_city	object	

user_loc_toponym		object
click to scroll output; double click to hide		
user_loc_state		object
user_loc_county		object
user_loc_city		object
User_profile_description_toponyms		object
user_profile_description_country_code		object
user_profile_description_state		object
user_profile_description_county		object
user_profile_description_city		object
tweet_text_toponyms		object
tweet_text_country_code		object
tweet_text_state		object
tweet_text_county		object
tweet_text_city		object
dtype: object		

Correlation matrix

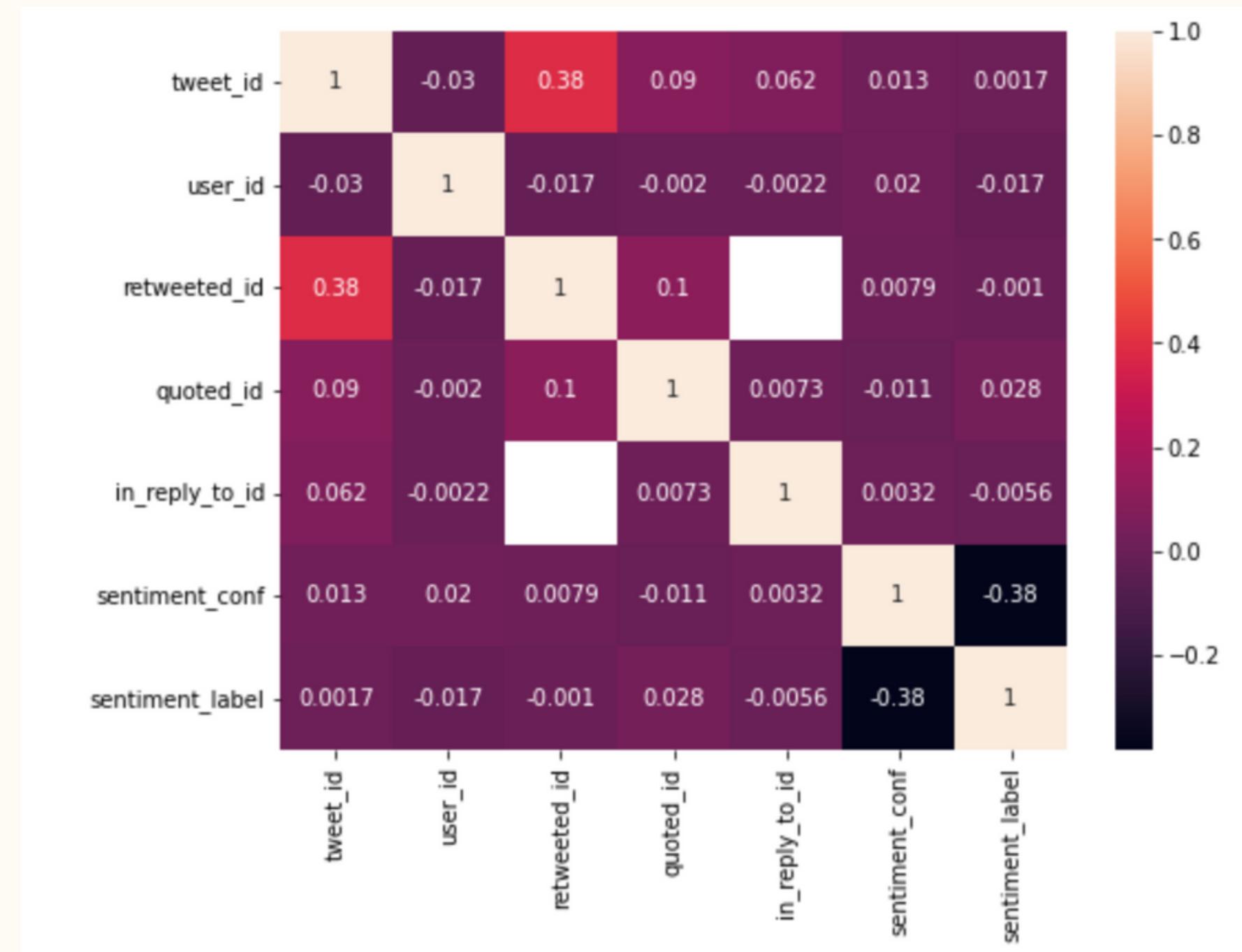
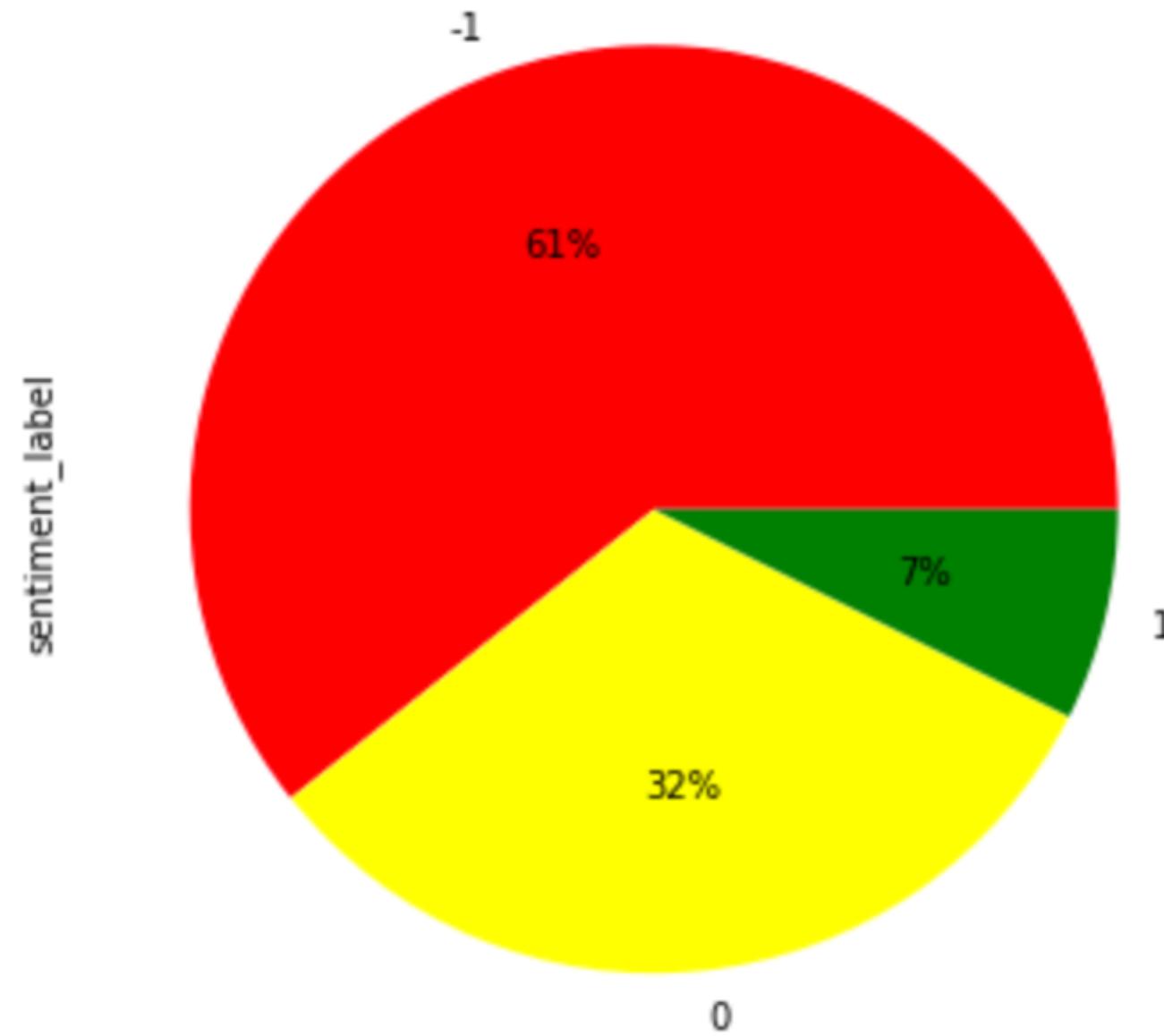


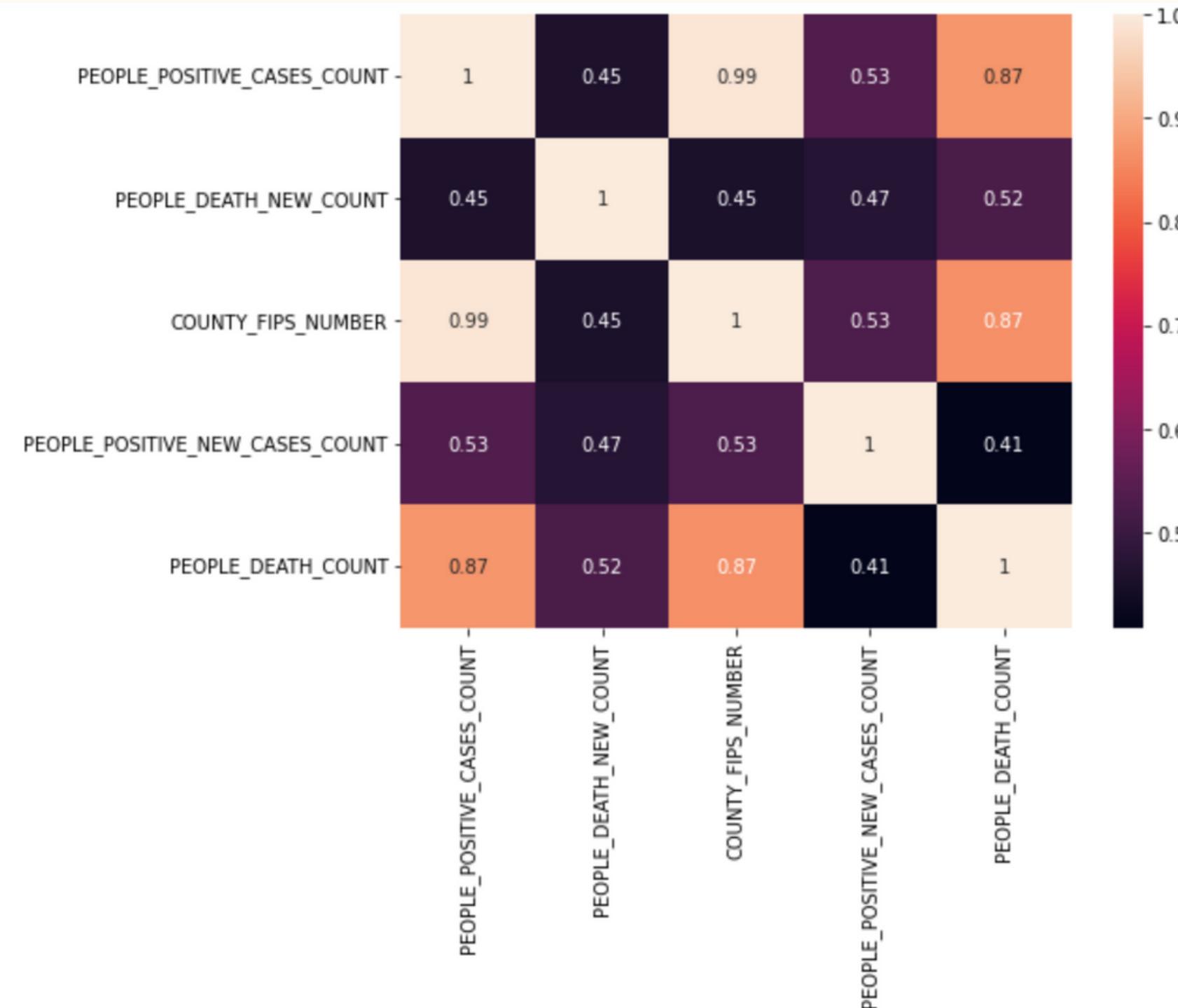
Chart (sentiments)



COVID-19 Activity

```
PEOPLE_POSITIVE_CASES_COUNT           int64
COUNTY_NAME                            object
PROVINCE_STATE_NAME                   object
REPORT_DATE                            object
CONTINENT_NAME                         object
DATA_SOURCE_NAME                       object
PEOPLE_DEATH_NEW_COUNT                int64
COUNTY_FIPS_NUMBER                    float64
COUNTRY_ALPHA_3_CODE                  object
COUNTRY_SHORT_NAME                    object
COUNTRY_ALPHA_2_CODE                  object
PEOPLE_POSITIVE_NEW_CASES_COUNT      int64
PEOPLE_DEATH_COUNT                   int64
dtype: object
```

Correlation matrix



GIS

- ***Geographic Information System (GIS) is a computer based information system***
- ***Used to digitally represent and analyze the geographic features***
- ***It presents on the earth's surface and the events (non spatial attributes linked to the geography under study) that taking place on it.***

Setup

Where did we begin ?

ArcGIS API for JavaScript

Overview Sample Code API Reference Showcase Blog

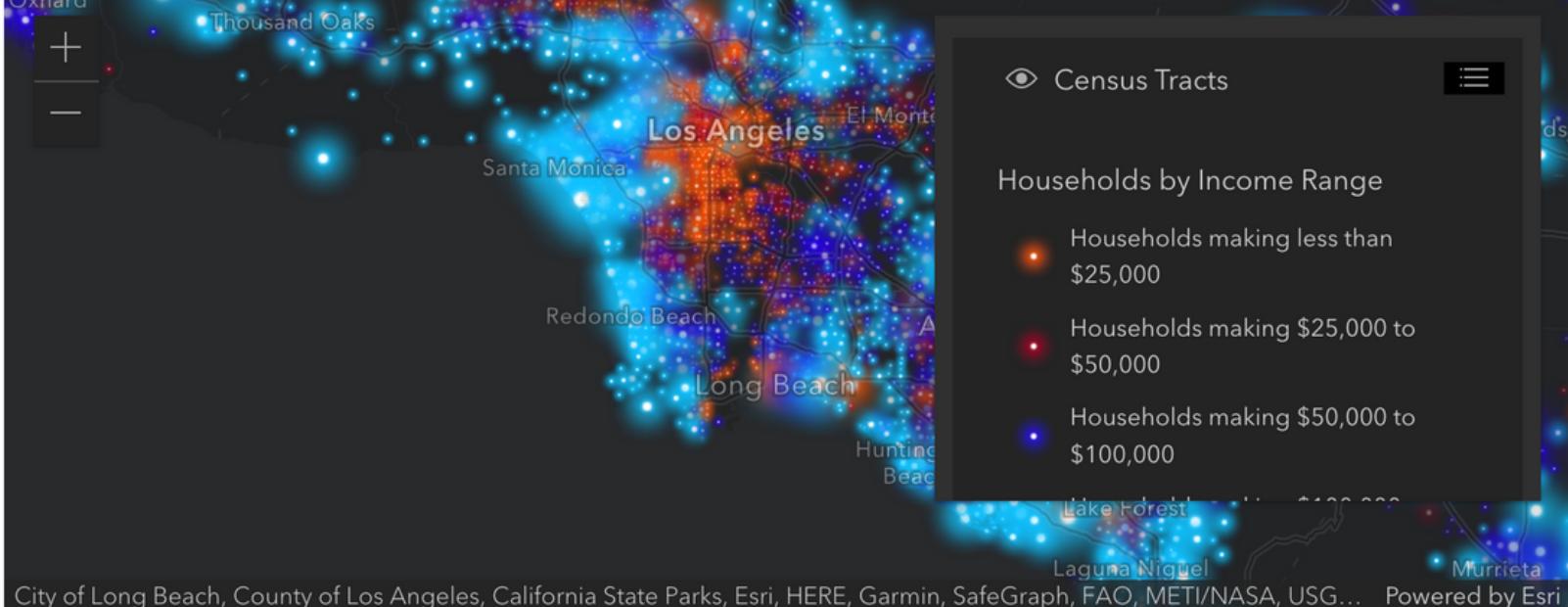
Overview

Find page...

- Overview
- Key features
- Get started
- Install and set up
- > Release notes
- FAQ
- Community
- > Tutorials
- > Core concepts
- > Visualization
- > Building your UI
- > Working with ArcGIS Online and Enterprise
- > Developer tooling
- > Migrating from 3.x

Current version: [4.23](#) (March 2022)

This guide describes how to use ArcGIS API for JavaScript to build compelling web apps that unlock your data's potential with interactive user experiences and stunning 2D and 3D visualizations.



On this page

- Where to start
- Sample code
- Showcase
- Tutorials
- Blog

Looking for 3.x ?

Was this page helpful?

Yes No

City of Long Beach, County of Los Angeles, California State Parks, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USG... Powered by Esri

Developper Setup

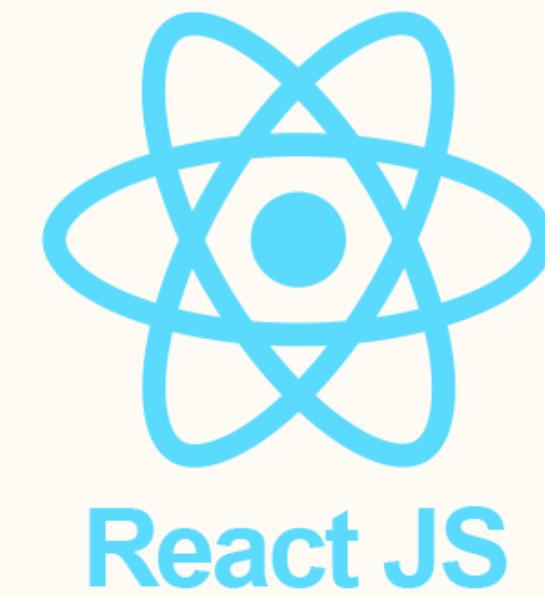


Visual Studio Code



ArcGIS Pro

Developper Setup



Get the API

CDN – Custom builds – Download builds



```
<link rel="stylesheet"  
href="https://js.arcgis.com/4.18/esri/themes/light/main.css" />  
<script src="https://js.arcgis.com/4.18/"></script>
```

CSS

Themes and styling



```
<link rel="stylesheet"  
      href="https://js.arcgis.com/4.18/esri/css/main.css">
```

Custom CSS (TailwindCss)



```
<link rel="stylesheet"  
      href="https://js.arcgis.com/4.18/esri/css/view.css">
```

MapView



```
const map = new Map({  
  basemap: "gray-vector"  
});
```

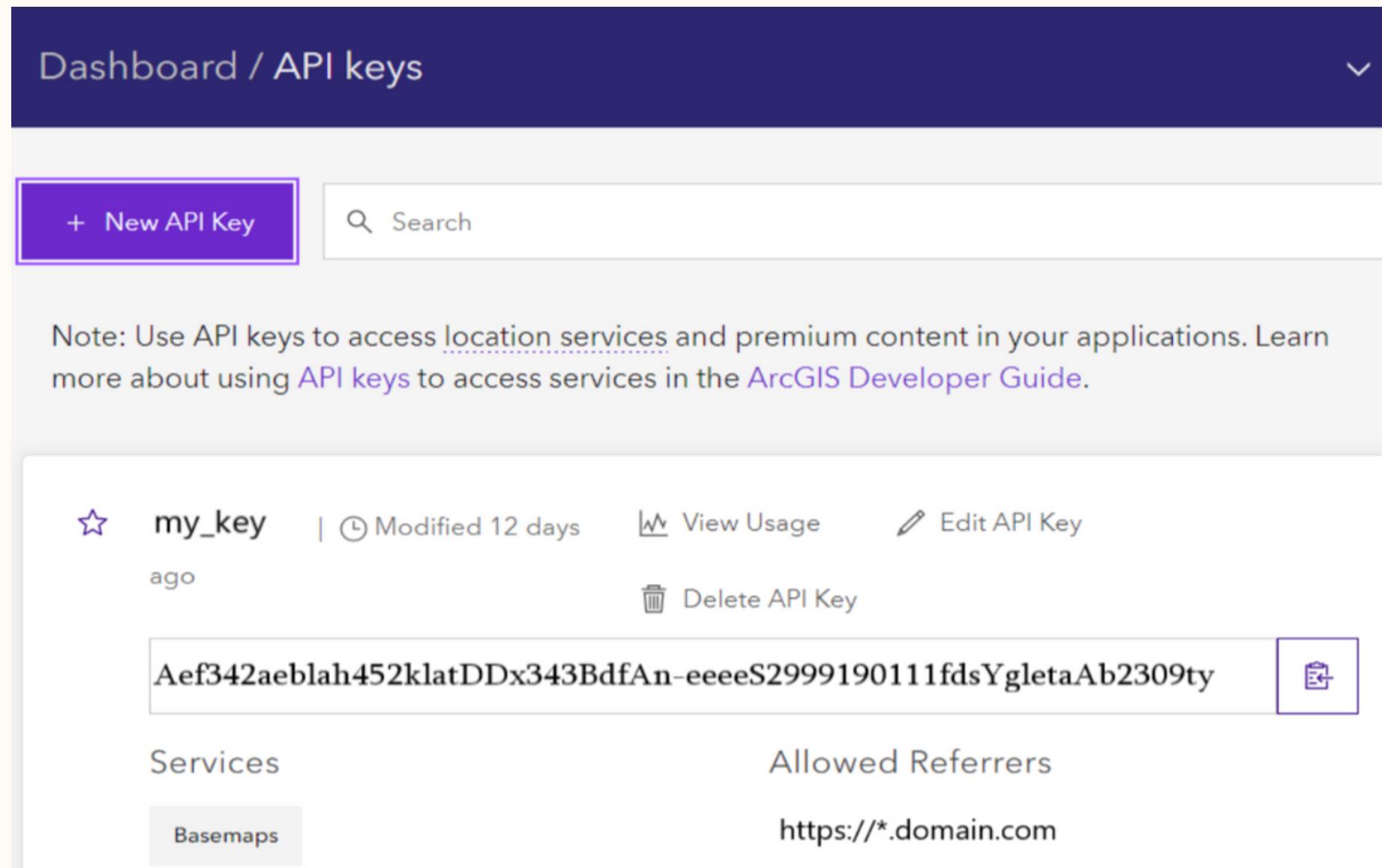


```
const view = new MapView({  
  container: "viewDiv",  
  map: map,  
  zoom: 12,  
  center: [-117.168, 32.776]  
});
```



API Keys

For use with Basemaps and Location services



The screenshot shows the ArcGIS API keys dashboard. At the top, there's a purple header bar with the text "Dashboard / API keys". Below it is a search bar with a placeholder "Search" and a button "+ New API Key". A note below the search bar reads: "Note: Use API keys to access [location services](#) and premium content in your applications. Learn more about using [API keys](#) to access services in the [ArcGIS Developer Guide](#)". The main content area displays a single API key card:

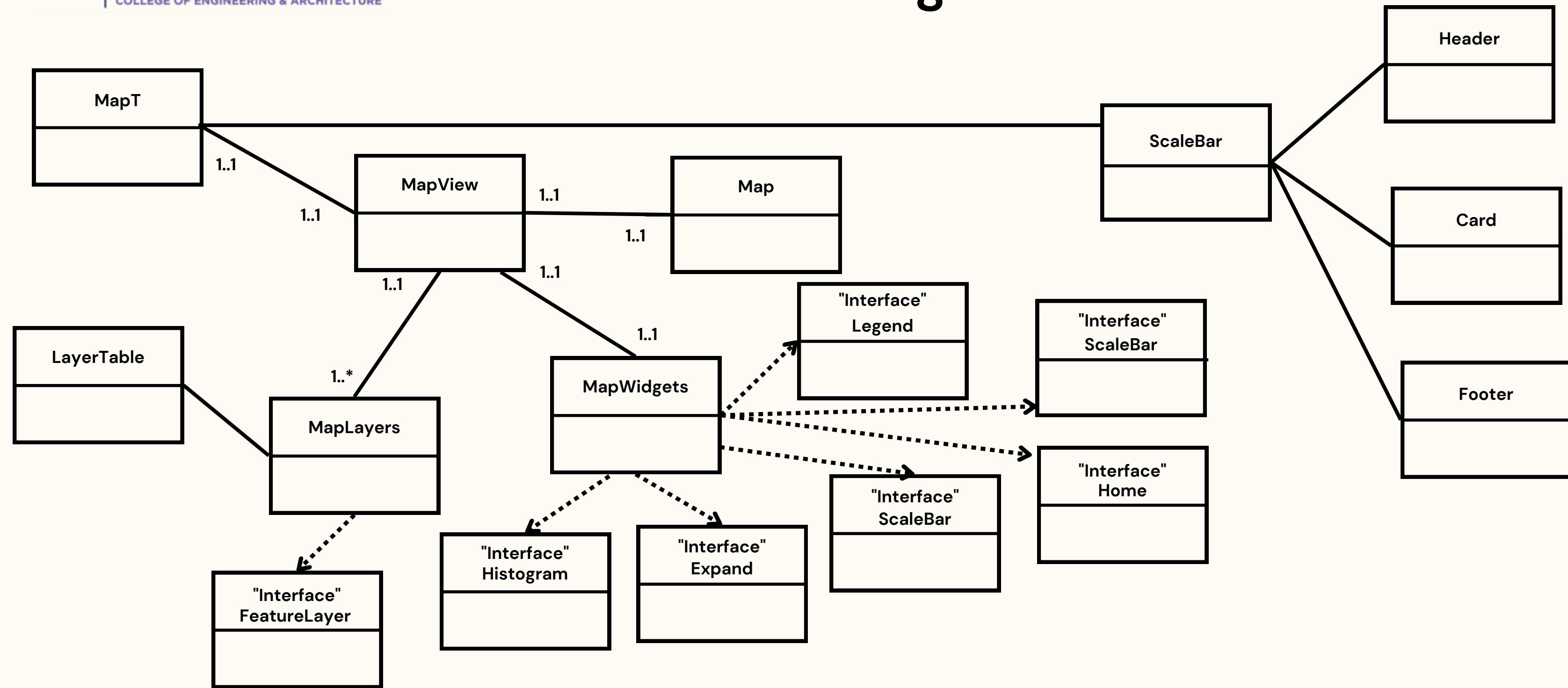
	my_key		Modified 12 days ago	View Usage	Edit API Key
				Delete API Key	
<pre>Aef342aeblah452klatDDx343BdfAn-eeeeS2999190111fdsYgletaAb2309ty</pre>					
Services			Allowed Referrers		
Basemaps			https://*.domain.com		

Analysis

1. Load module
2. Create layers
3. Set properties
4. Add to map or scene



Class diagram



Demo

Conclusion

Conclusion

Q&A Session

Thank you for listening!