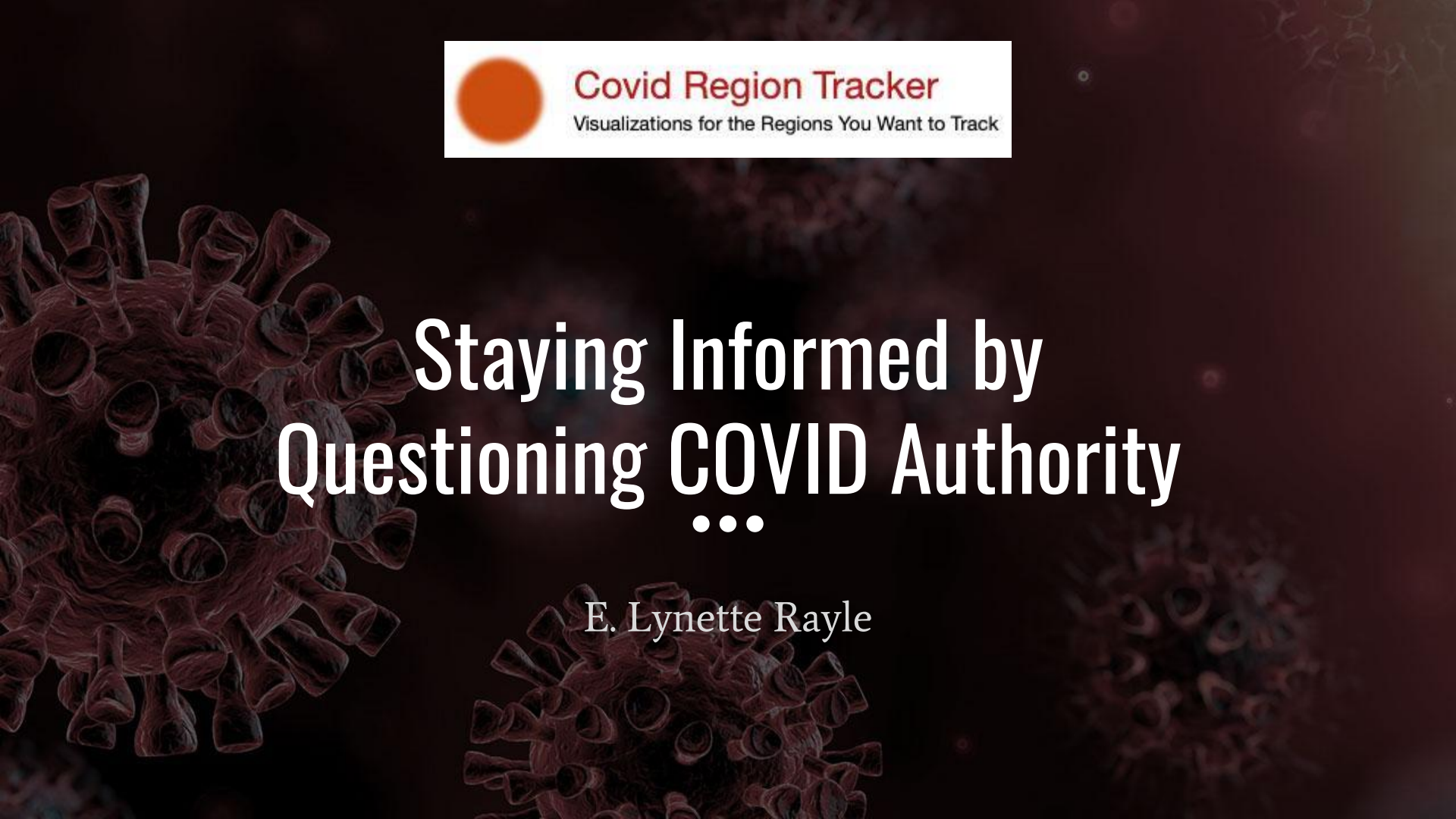


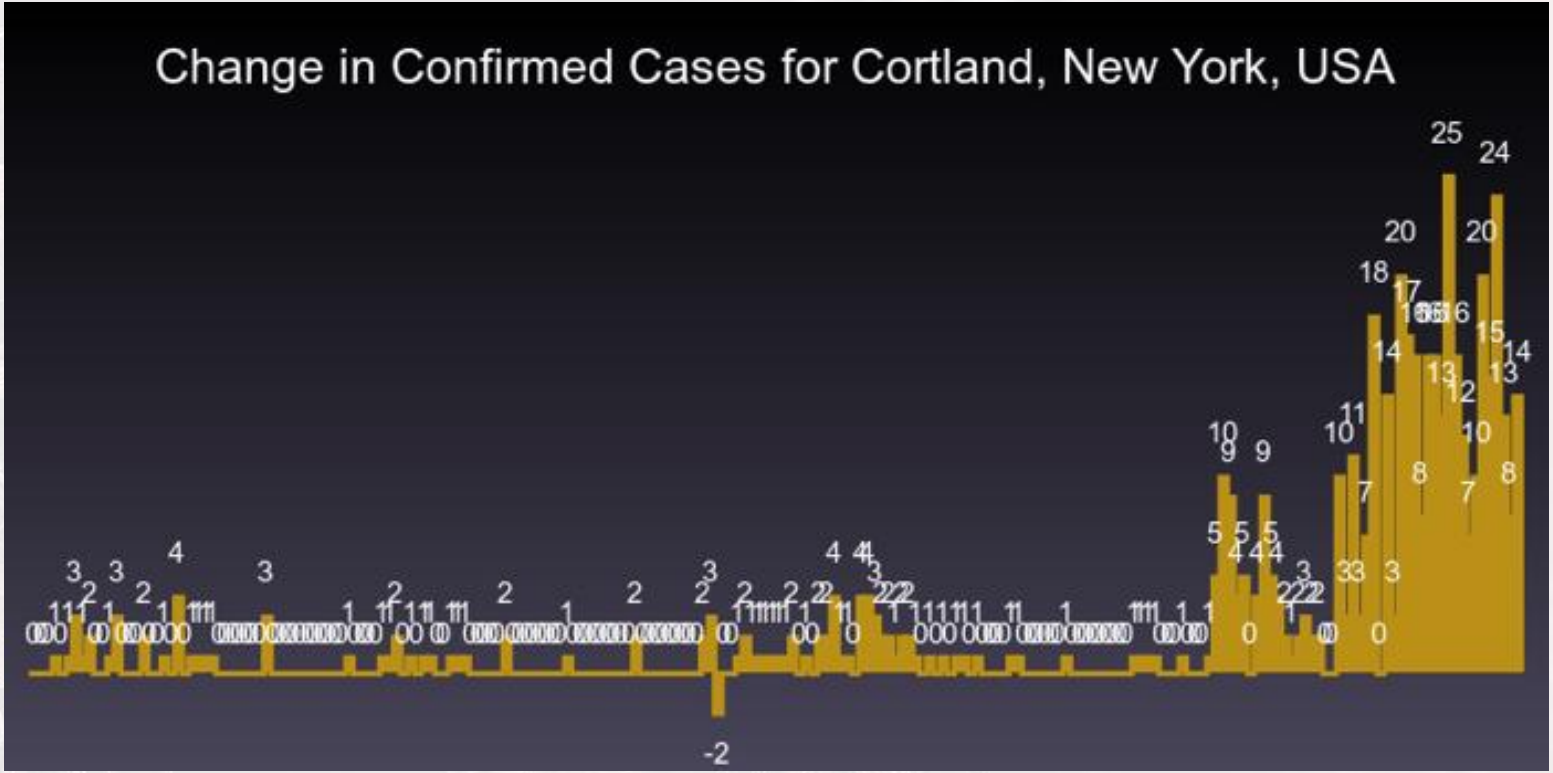
Staying Informed by Questioning COVID Authority

E. Lynette Rayle

Technologies

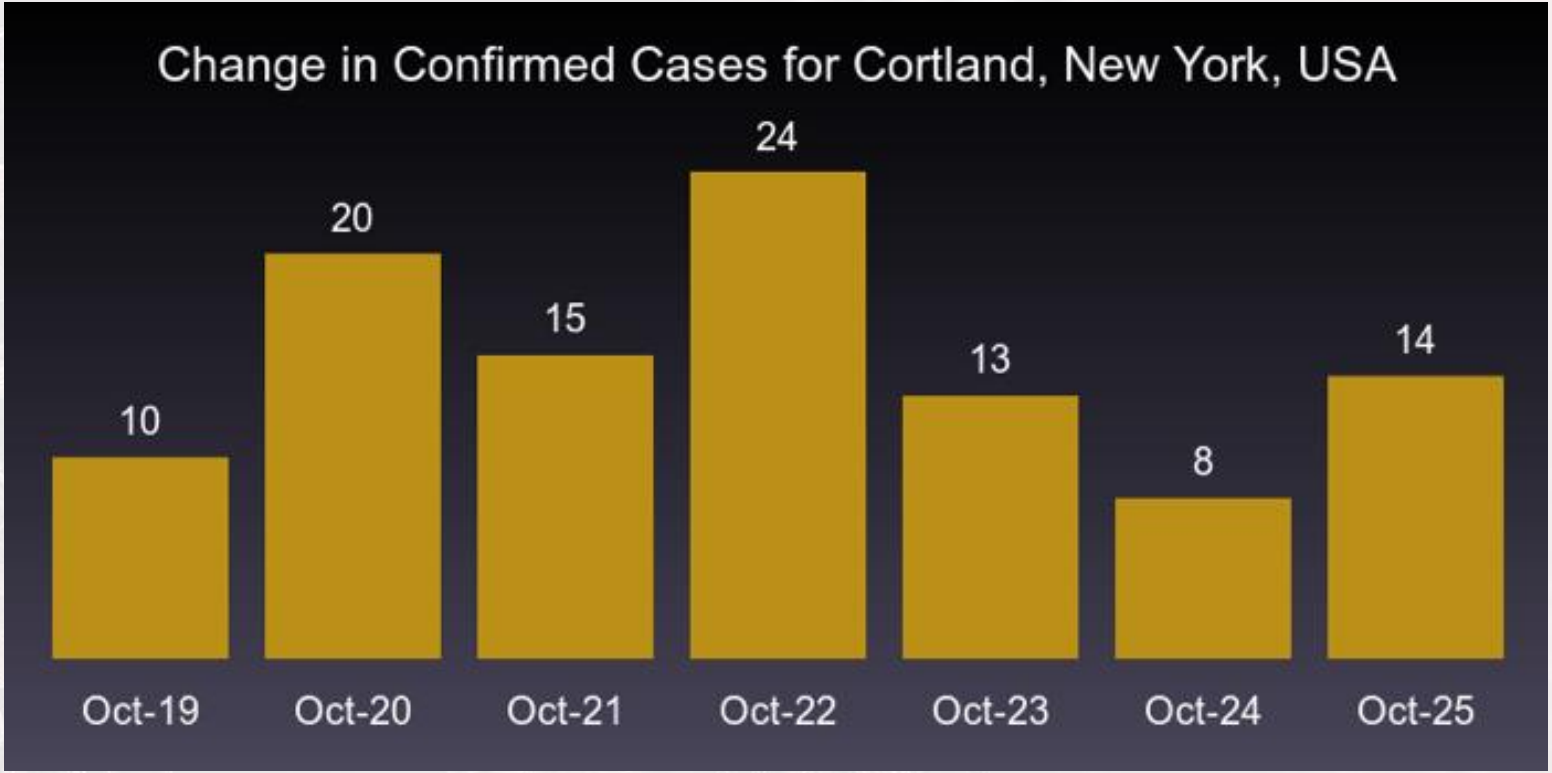
- Johns Hopkins data
- Covid API
- Question Authority for API Access
- Gruff graphing library
- Jekyll Documentation Theme
- GitHub Pages

Graphs based on Johns Hopkins data



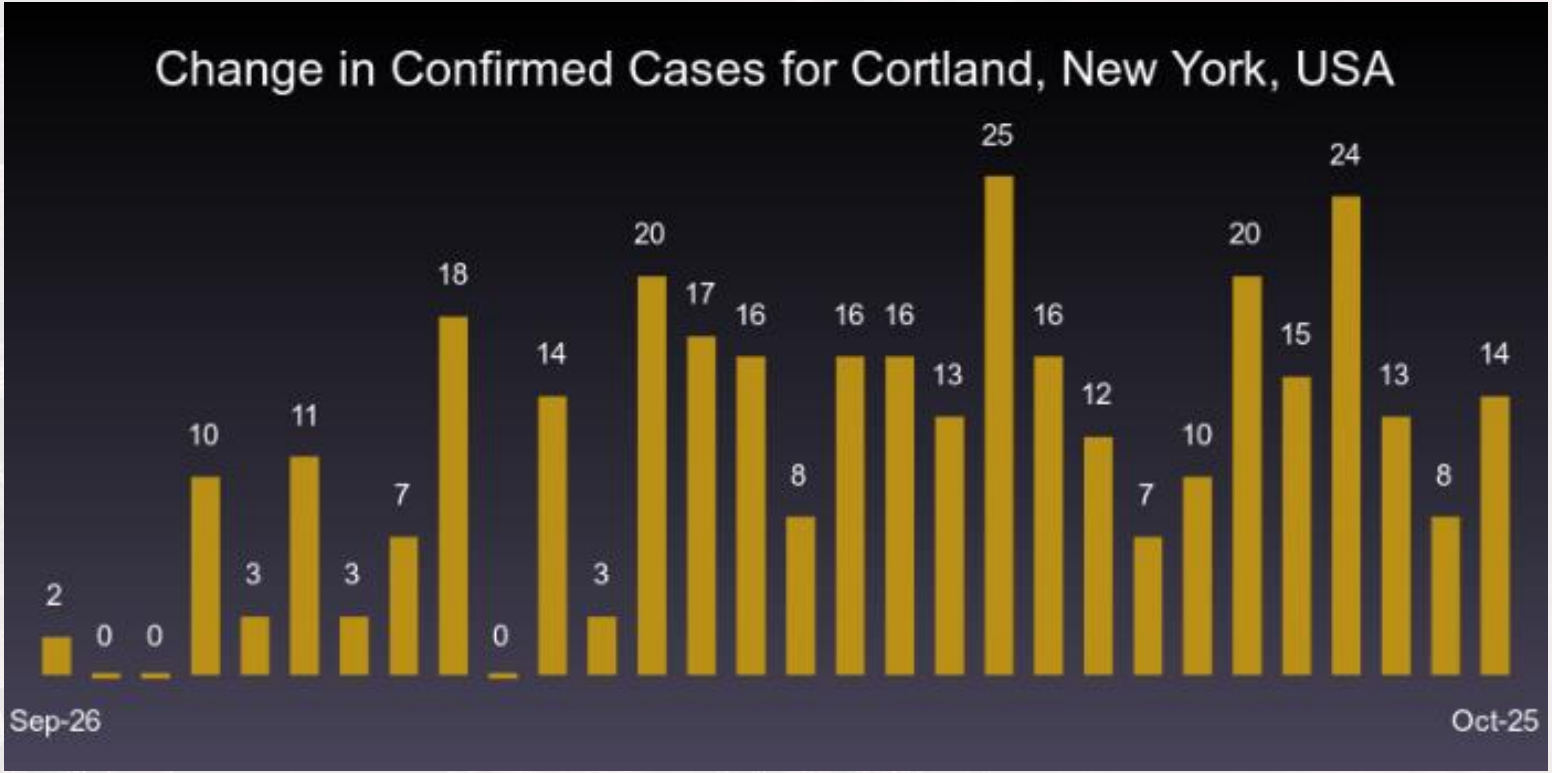
Each bar represents 1 days of data with the graph showing all available data.

Graphs based on Johns Hopkins data



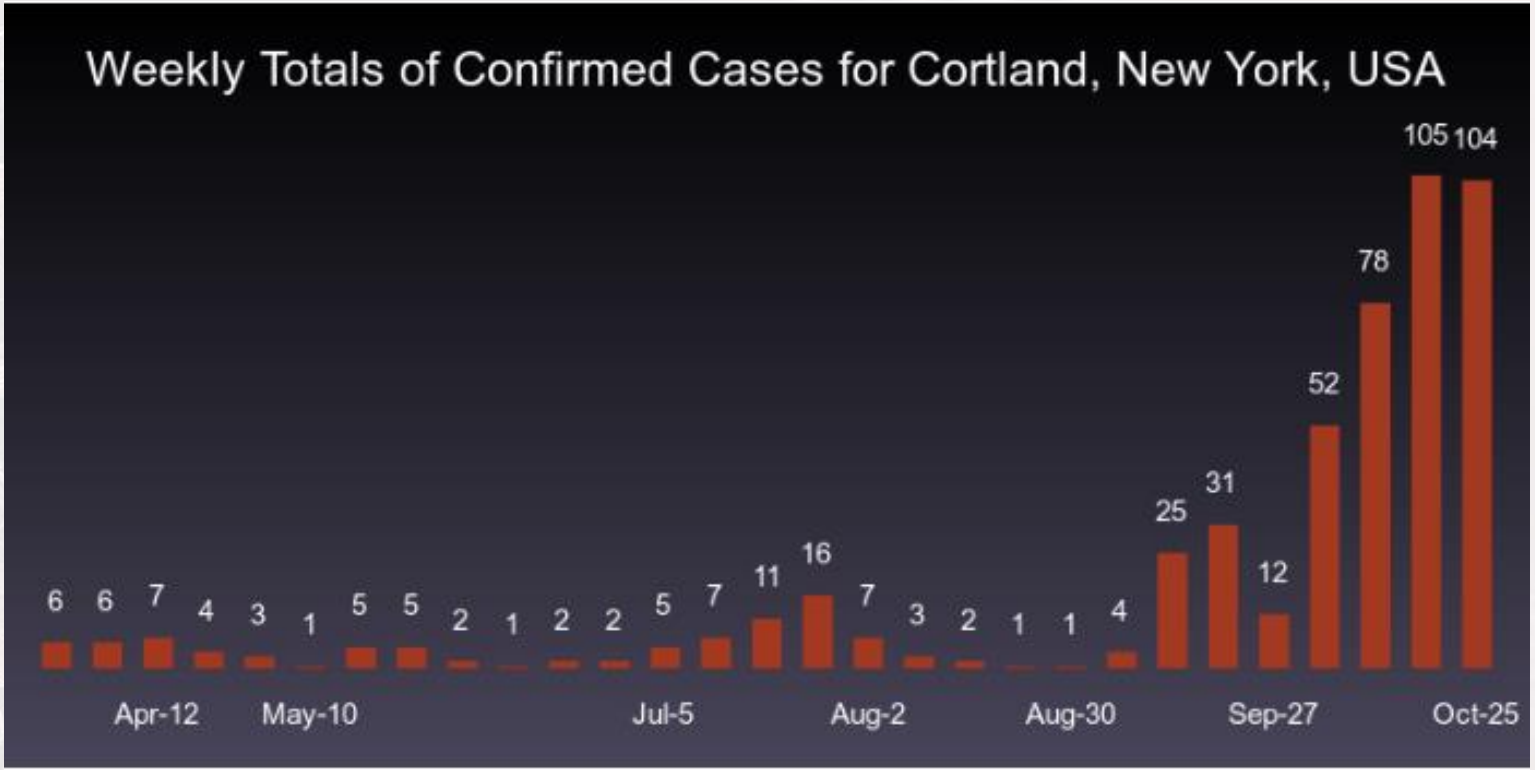
Each bar represents change data for 1 day with the graph showing the last 7 days.

Graphs based on Johns Hopkins data



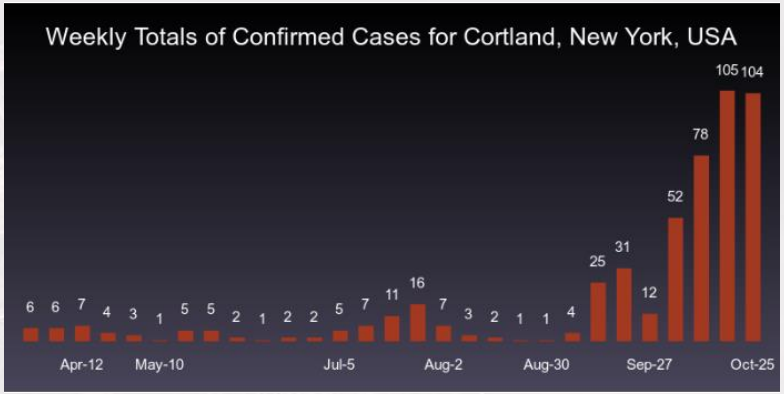
Each bar represents 1 days of data with the graph showing the last 30 days.

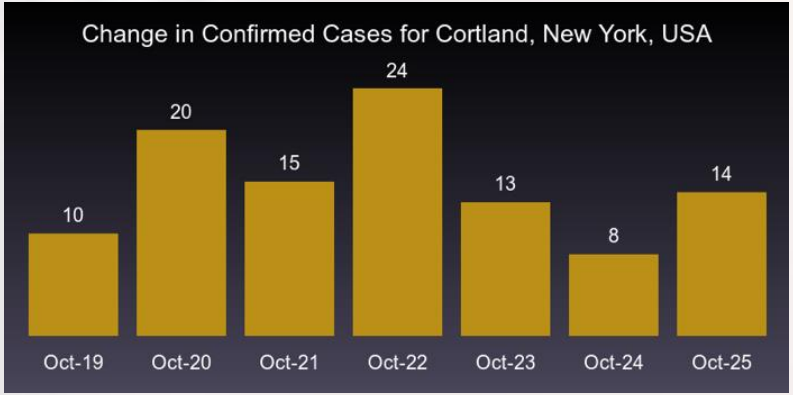
Graphs based on Johns Hopkins data

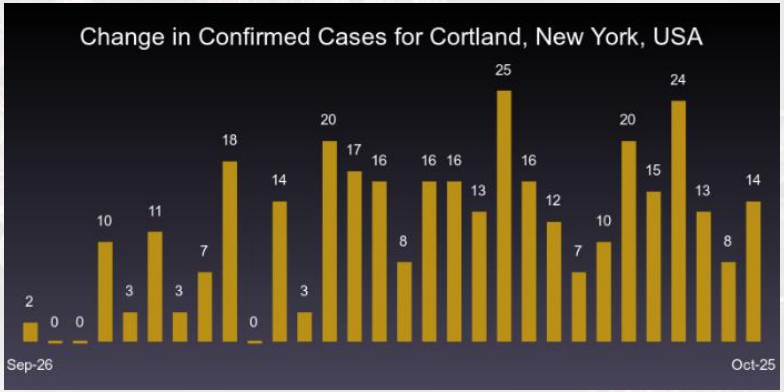


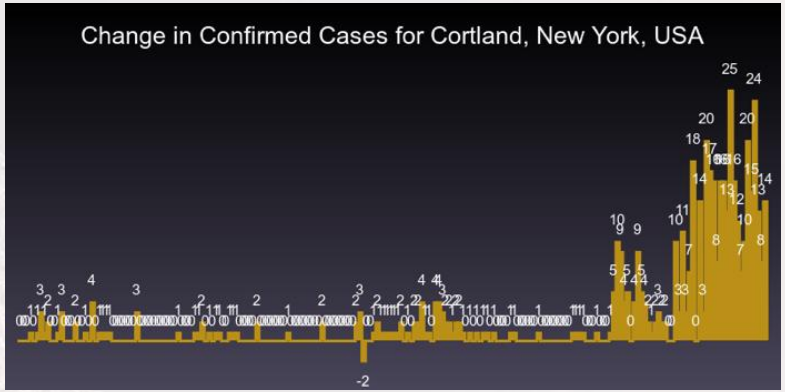
Each bar represents 7 days of data.

Graphs based on Johns Hopkins data









Demo

Covid Region Tracker

Visualizations for the Regions You Want to Track

Covid Tracker Central Areas

- Cortland County, NY and Surrounding Counties
- Augusta, GA Metro Area
- Jefferson City, MO and Surrounding Counties
- Bryan, TX and Surrounding Counties
- Conroe, TX and Surrounding Counties
- Oxford, TX and Surrounding Counties
- Sarasota, FL and Surrounding Counties

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github.com/elrayle/covid_tracker_areas

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Covid Tracker Central Areas

Visualizations for the Regions You Want to Track

Cortland County, NY Area

- Weekly Totals
- This Month
- This Week
- Since March
- By Region

Cortland County, NY and Surrounding Counties

Weekly Totals

Graphs for each region with all data totaled by week.

See Graphs

This Month

Graphs for each region including data from the past 30 days.

See Graphs

This Week

Graphs for each region including data from the past 7 days.

See Graphs

Since March

Graphs for each region including data since March 2020.

See Graphs

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Graphs for each region including data from the past 7 days.

See Graphs

Since March

Graphs for each region including data since March 2020.

See Graphs

Cortland County, NY Area

Weekly Totals
This Month
This Week
Since March
By Region

All Regions

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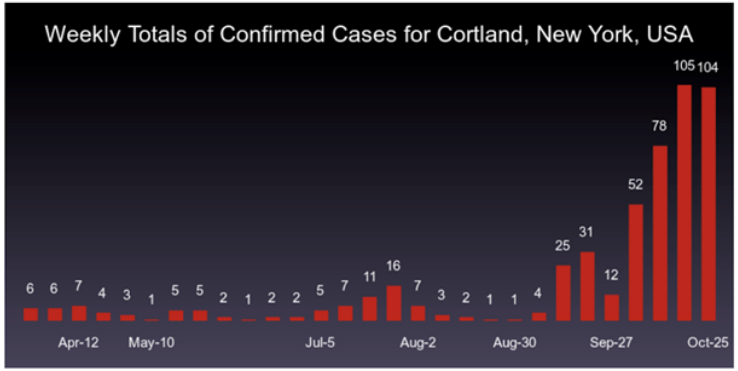
- Cortland, New York, USA
- Tompkins, New York, USA
- Broome, New York, USA
- Onondaga, New York, USA
- Cayuga, New York, USA
- Madison, New York, USA
- Chenango, New York, USA
- Tioga, New York, USA

Cortland, New York, USA



Tompkins, New York, USA

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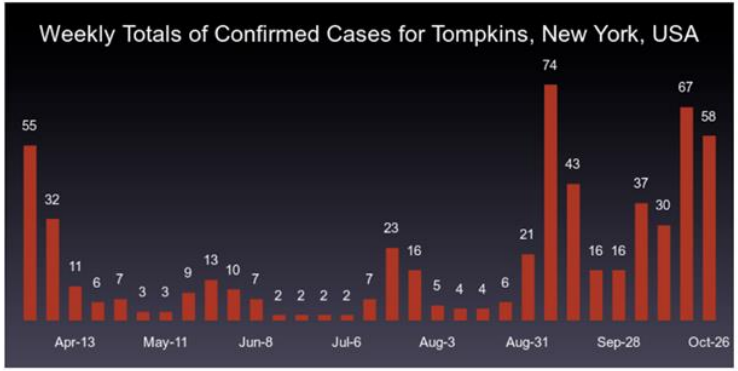
Tompkins, New York, USA



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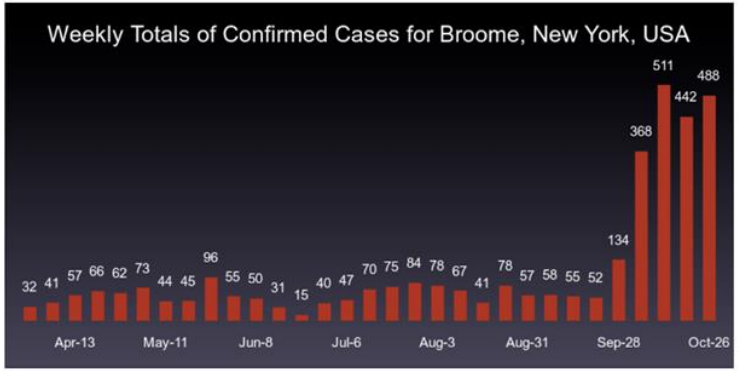

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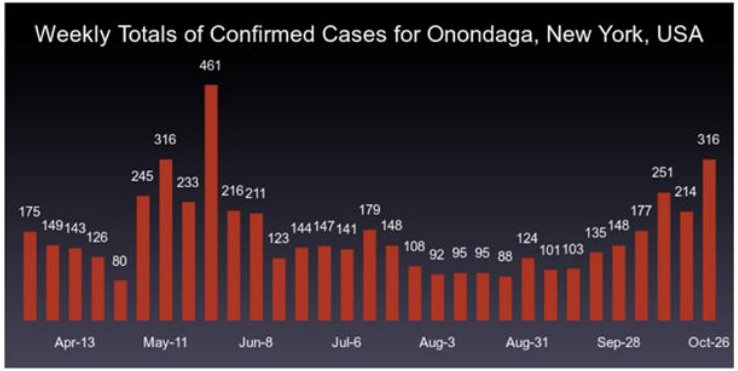
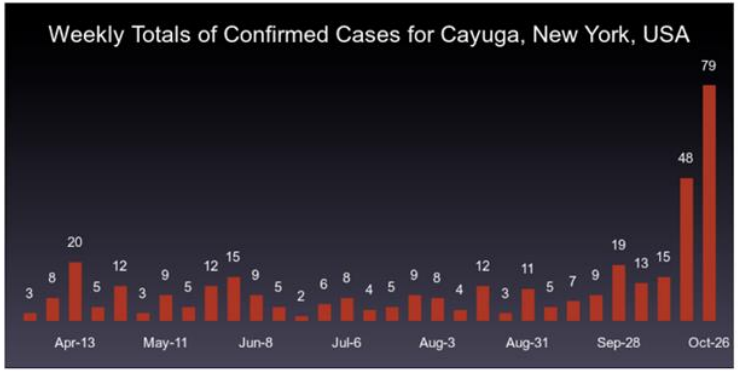
Onondaga, New York, USA



Cayuga, New York, USA



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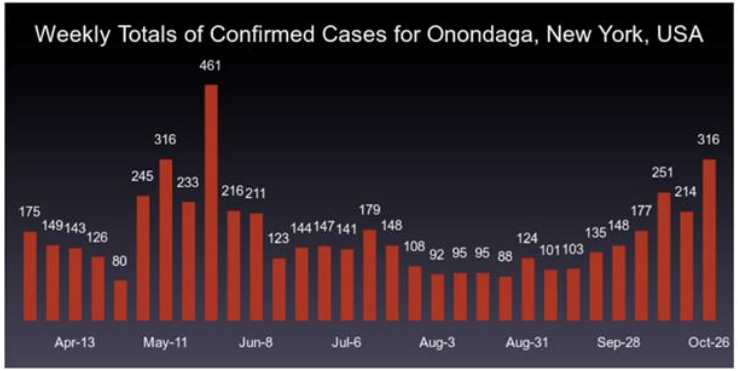
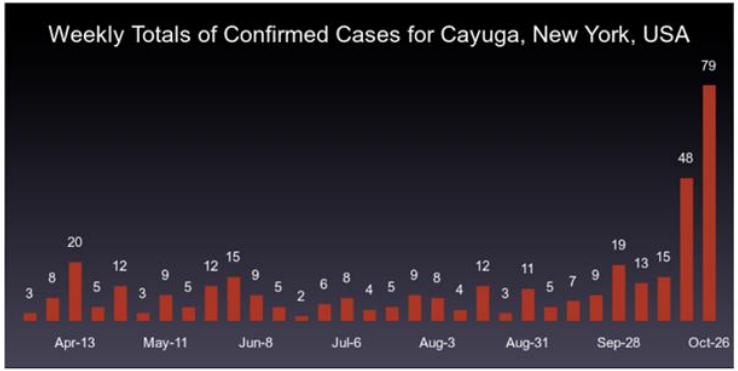
Onondaga, New York, USA



Cayuga, New York, USA



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  - Onondaga, New York, USA
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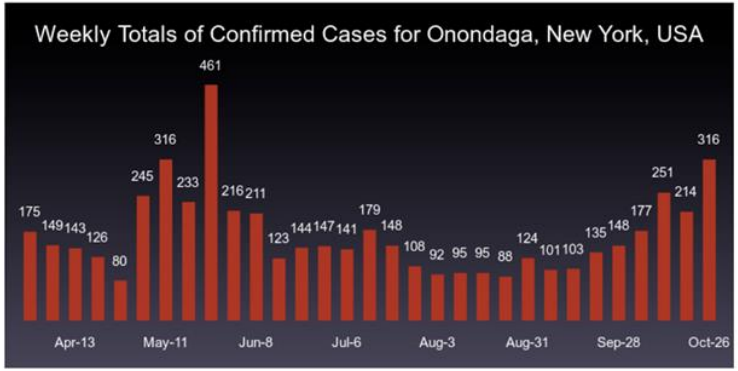
Onondaga, New York, USA



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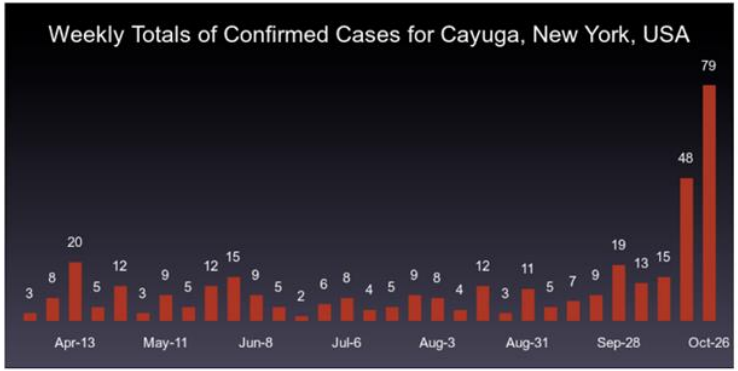

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- By Region

Cortland, New York, USA

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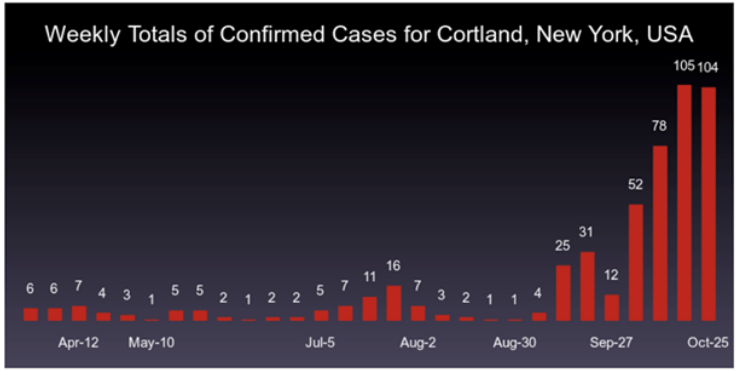
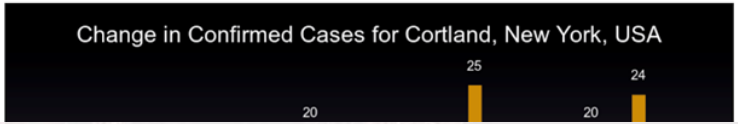
- Last 30 Days
- Last 7 Days
- Since March

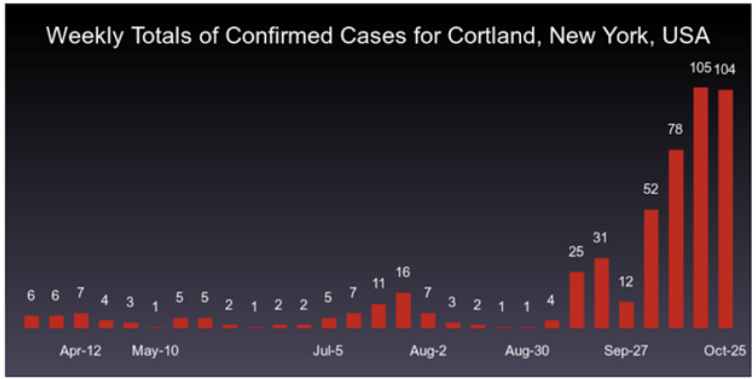
Weekly Totals Since March



Last 30 Days



Weekly Totals Since March



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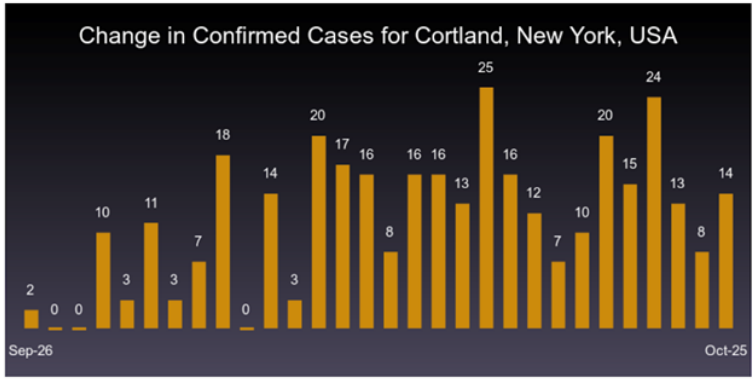

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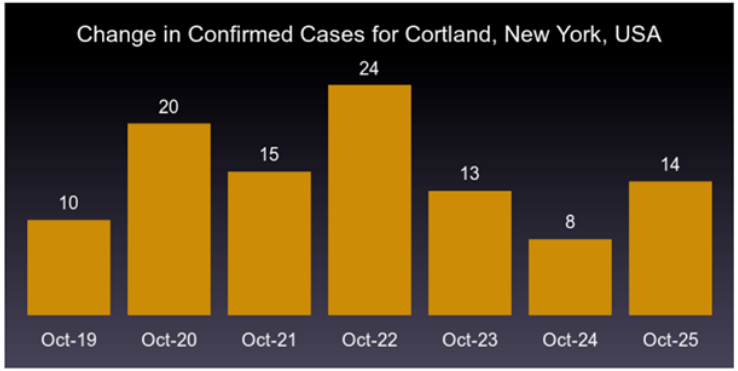

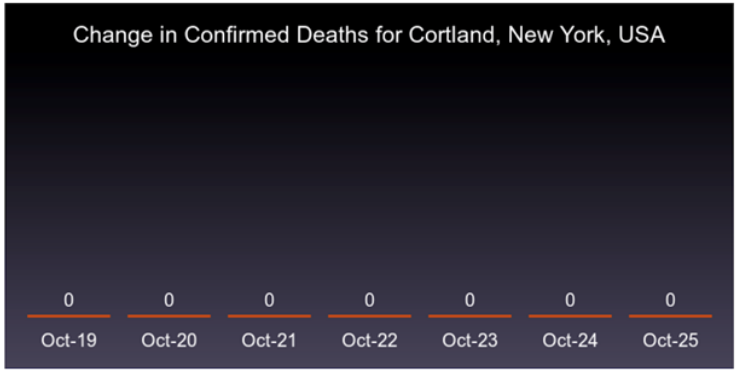

Since March

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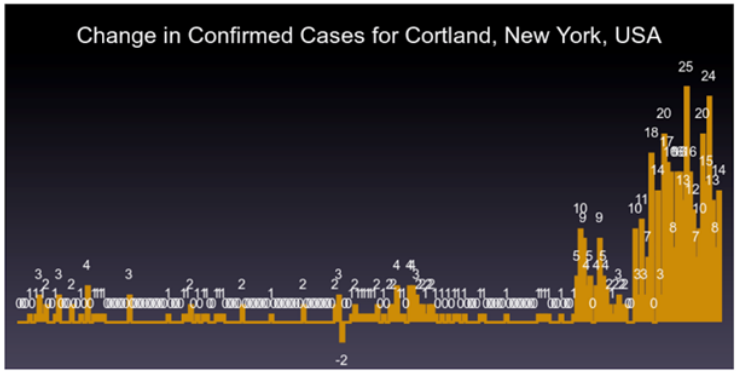

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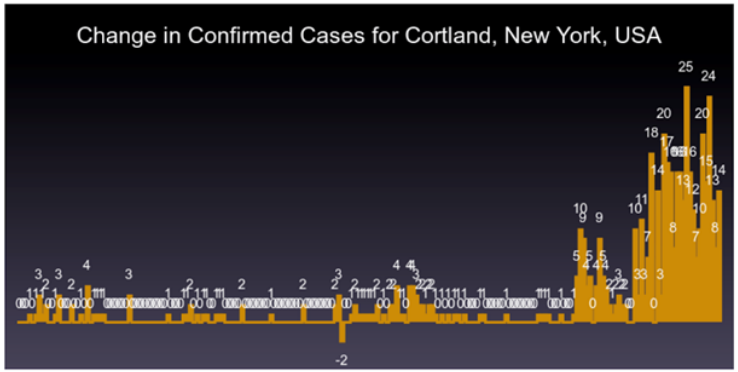

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- Sarasota, FL and Surrounding Counties

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github.com/elrayle/covid_tracker_areas

Configuration Based

```
CovidTracker::CentralAreaRegistry.register_usa(state: 'New York', county: 'Cortland',
                                               sidebar_label: "Cortland County, NY Area",
                                               homepage_title: "Cortland County, NY and
Surrounding Counties") do
  [
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Cortland'),
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Tompkins'),
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Broome'),
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Onondaga'),
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Cayuga'),
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Madison'),
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Chenango'),
    CovidTracker::RegionRegistration.for_usa(state: 'New York', county: 'Tioga')
  ]
end
```

- Configured to track my county and all the surrounding counties.
- Can configure multiple areas.

Steps to use for your areas and regions

- Copy the app and add as a repo under to your user repos in GitHub
- Configure app in GitHub to point pages to **`/docs`**
  - Settings -> Options -> GitHub Pages -> Source -> Branch: main and Folder: /docs
- Edit the area and regions in **`/config/initializers/covid_regions.rb`**
- run script: **`bin/update_site -s -p -g`**
  - Generates files under /docs
  - Push results to github
  - Run daily (manually or by cron job) and push results to github

Links

- Get the app: Covid-Tracker Code in Github
- Data from: COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University
- The API to access the COVID-19 data is COVID API
- The mechanism used to access the API is a custom module written to work with the Questioning Authority gem from the Samvera Community.
- Graphs are generated using Gruff Graph library
- The GitHub Pages site uses Documentation Theme for Jekyll