

Traveling During COVID

Basic Information:

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Working on a better title

<https://justinwong208.github.io./project.html>

Background and Motivation:

I went through a lot of different topics before getting to this one. All the previous ones I had trouble finding adequate data for. I ended up choosing traveling during covid because it's something I do enjoy. My family and I were either planning to go to Disney World or Japan to celebrate my sister and I's graduation. Of course me missing a trip shouldn't even be brought up when talking about the grand scheme of how COVID has deeply affected the world, but I thought I'd be interesting to see how different countries treated the pandemic throughout the past few years and how restrictions on travel affected the economies of countries that heavily depend on tourism.

Project Objectives:

1. How and why did each country treat traveling restrictions during the pandemic?
(When there were spikes and lows, did some countries react right away to lift/add restrictions)
2. What are the top travel destinations (before COVID and AFTER) and how does tourism there impact the country's economy?
3. How did the pandemic impact tourism for the top travel destinations?

Data: <https://www.bts.gov/data-spotlight/cancellations-and-flights-day-march-2020>

<https://ourworldindata.org/covid-international-domestic-travel>

<https://www.unwto.org/international-tourism-and-covid-19>

<https://www.unwto.org/unwto-tourism-recovery-tracker>

For cleveland

[2020](#)

2019

https://data.worldbank.org/indicator/ST.INT.ARVL?end=2020&most_recent_value_desc=true&start=1995&type=shaded&view=map&year=2020

<https://www.e-unwto.org/doi/epdf/10.18111/wtobarometereng.2020.18.1.7>

Data Processing: Not much data cleanup to do. Some quantities that I plan on getting are percentage change in tourists at the top travel spots, how much money tourism brought the top travel location before, during and after pandemic.

Visualization Design:

Must-Have Features:

1. PO1: Choropleth of world map with either slider or buttons that show the severity of travel ban throughout pandemic
2. PO2: Cleveland Dot Plot showing Annual Visitors/Revenue of the top travel destinations
3. PO3: Stacked Area Chart depicting the % change in tourists of top travel countries during pandemic

Optional Features:

- (PO2) Hovering over a specific bar will bring up a PIE CHART of how much travel makes up the countries economy
- (PO3) Show where's most popular to travel in 2022
- (PO1) Explain and show certain changes in trends (US has heavy ban restrictions because of the spike caused by DELTA Variant.....)

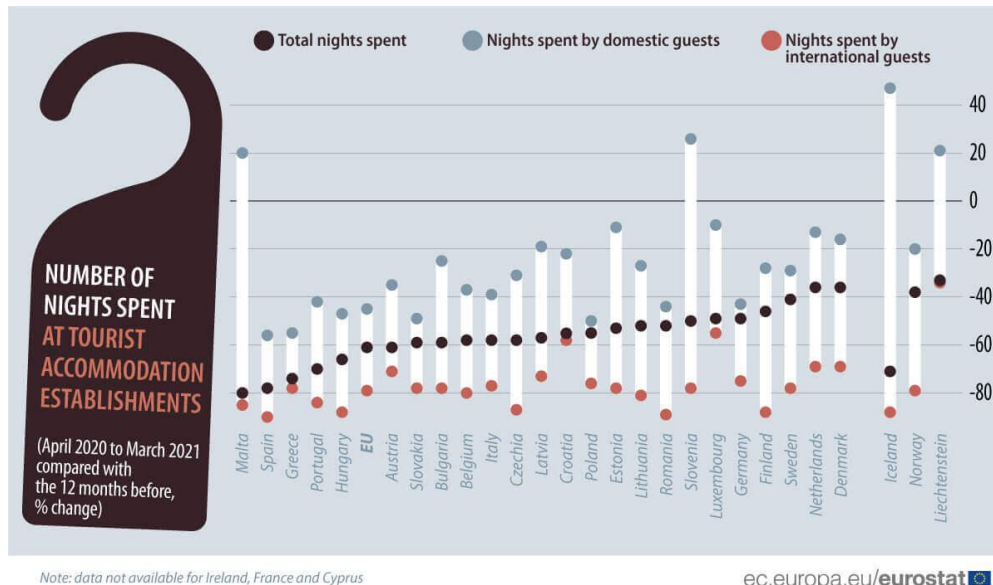
Project Schedule:

- Project Proposal : Mar 11, 2022
- Revised Proposal: Mar 23, 2022
- Data Fully collected and prepared for use: Mar 28, 2022
- Finish the Cleveland chart (PO1): Apr 4, 2022
- Finish the Stacked Area Chart: Apr 8, 2022
- Finish the Choropleth: Apr 15, 2022
- Finish interactivity for PO2 Area Chart: Apr 20, 2022
- Finish interactivity for Choropleth: Apr 27, 2022
- Finish all text and extra images to website: May 4, 2022

Related Work:

<https://www.unwto.org/statistics/country-fact-sheets>

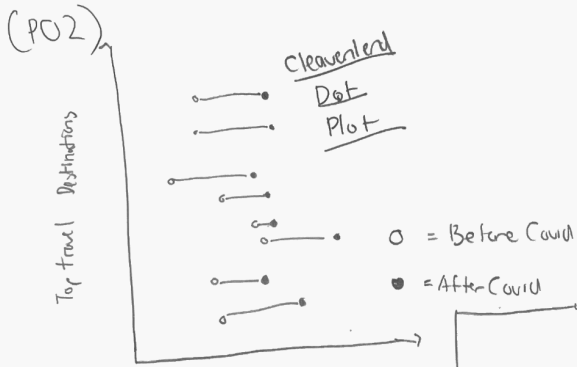
https://www.sciencedirect.com/science/article/pii/S0160738320301389?casa_token=uANpsyzWf6AAAAAA:wBOnhiQk5KTURBY4oqvti4-orwO5THnarMqffyzqikXGDjpVCVlTTzkSljv-HR3b3MBN_fw6ICfY



<https://www.imf.org/external/pubs/ft/fandd/2020/12/impact-of-the-pandemic-on-tourism-behsudi.htm>

<https://news.un.org/en/story/2021/11/1106712>

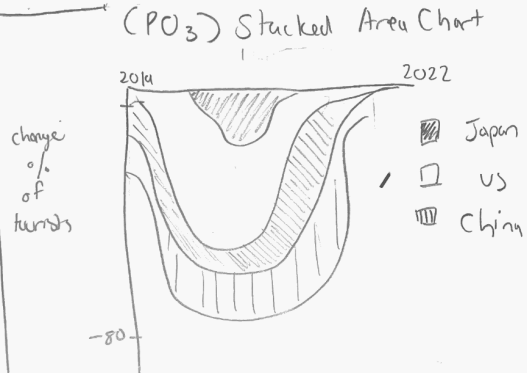
(I like the little graphic they have for the above link)



Yearly Tourist or Revenue



Severity of Travel Ban



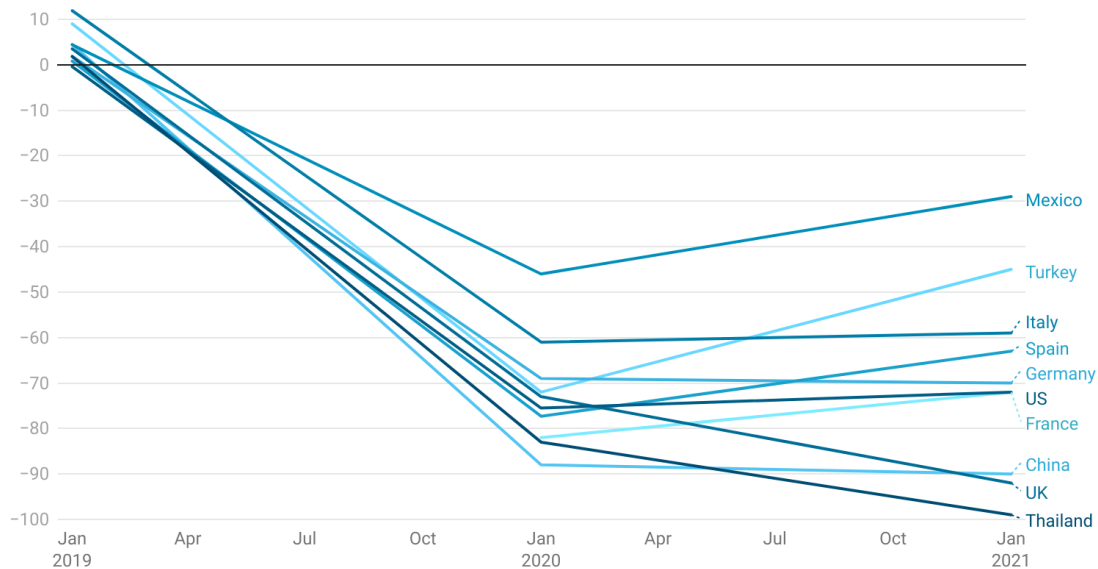
ALPHA REPORT

[Choropleth](#)

[Cleveland](#)

PO3- Line Chart

% Change of Inter. Tourist Arrivals 2018-2021



Created with Datawrapper

Features from your proposal that have been completed

- (PO1) Can't call it complete but I implemented the choropleth for one specific date instead of having it iterate throughout the span of 2 years
 - legend
 - Have it iterate over two years of data instead of one specific date
 - 2 years of data = 15000 rows of data
 - I might just choose specific important covid dates
 - Would make it easier to attach anecdotes
 - Might change map to not include antarctica (Makes other countries look less significant in comparison)
 - Slider to choose specific date
- (PO2) Cleveland dot plot came out pretty great but kinda bland

- Need to add legend

Upcoming immediate milestones

- Don't have any immediate goals when checking back on the schedule I made. Since I planned to have 2 out of 3 graphs done by Friday, I guess finishing up the small details (Legend/ Missing Data) for both graphs by 4/8 would be my next little goal

Roadblocks (if any) that you are running into

- I originally wanted stacked area chart for PO3 but testing around with it on DataWrapper, the stacked area chart might be a little too clustered and "ugly", so i switched to a line chart for now.
- Both Cleveland Dot Plot (PO2) & Line Chart (PO3) are kind of showing the same variable (depicting the same story), so it's not set yet, but planning on switching the Cleveland plot to top ten countries by Tourism receipts (Money made). That way I have more to write about like in what specific way has the decrease in tourism receipt exacerbated the society of the country, especially those in which tourism makes up a large percentage of the GDP.
- Talked a little about it at the top of the Alpha, but I was thinking of cutting down the 2 years worth of dates for the choropleth (PO1) to just significant COVID related dates. It would make working with the data more efficient and simpler, and when I apply the slider to the choropleth, It would be easier to attach little anecdotes only with said important dates