



「COVID-19 Relief

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01.

ABOUT COVID-19

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02.

PROPOSED
STUDY AND HYPOTHESIS

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03.

RESEARCH IMPACT

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04.

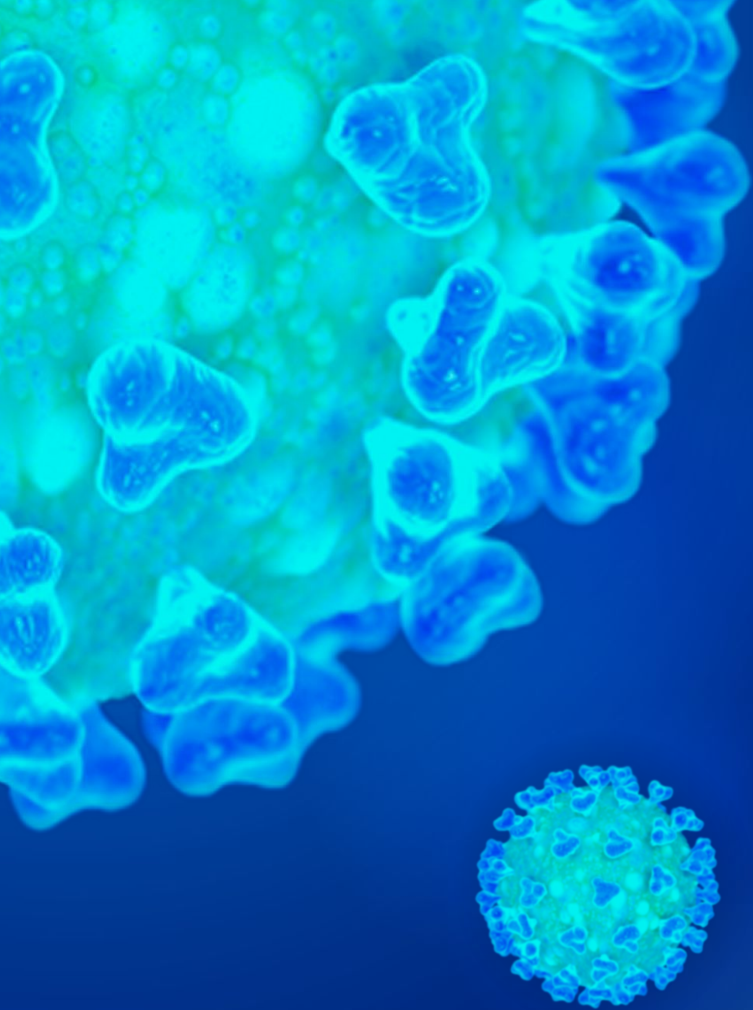
STUDY METHODOLOGY

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05.

DASHBOARD AND
VISUALIZATIONS

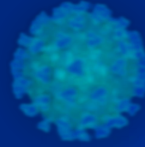
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06.

PROJECT TIMELINE &
COST BREAKDOWN



01.

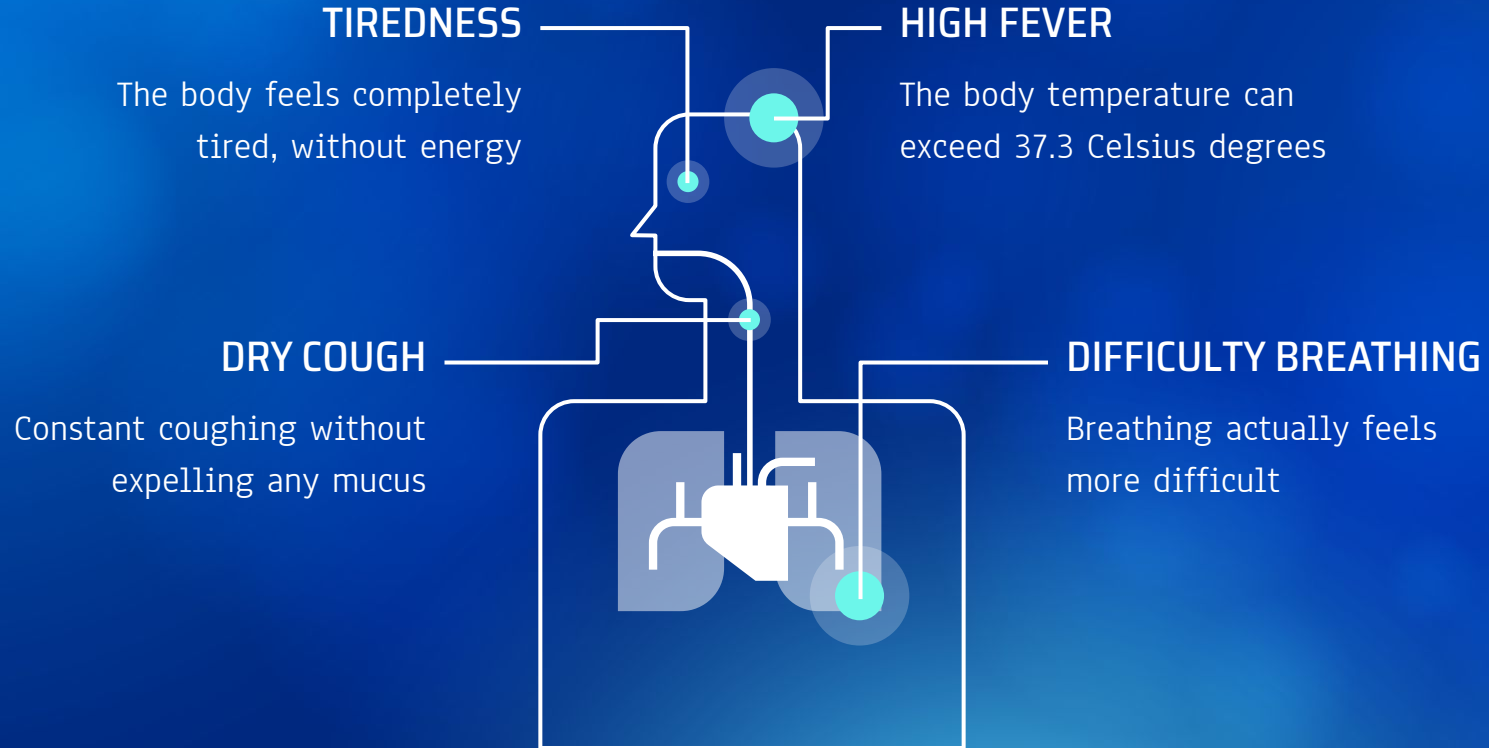
ABOUT CORONAVIRUS



COVID-19

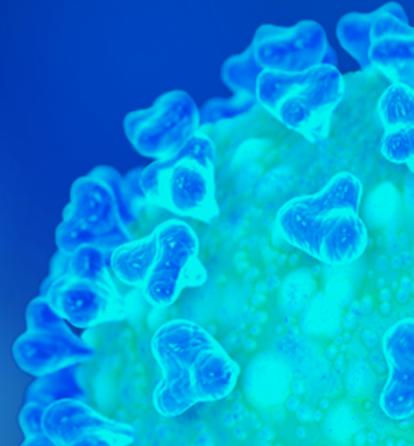
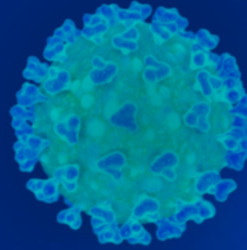
COVID-19 is an infectious disease caused by the recently found virus known as SARS-CoV-2 (or coronavirus). Before the outbreak originated in Wuhan, China on December 2019, there was no information about this virus

SYMPTOMS OF COVID-19



02.

PROPOSED STUDY & HYPOTHESIS



We analyzed the trends of Covid-19 as it applies to how age affects mortality in NYC

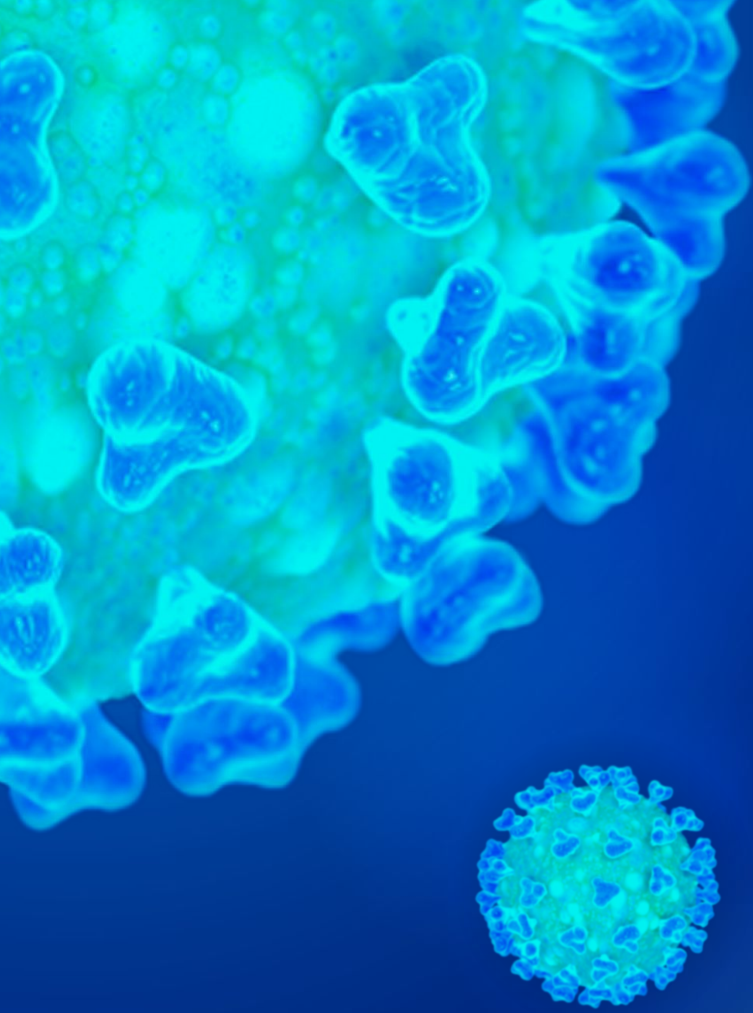
Proposed hypothesis 1: As the age of a person increases the number of hospitalization and deaths in the 70+ age group will be the highest fatality(deaths/total cases).

Proposed hypothesis 2: Also,there is a direct correlation between the age of a person and the density of the boroughs. A 70+ person living in a denser borough will have a higher chance of exposure and have a higher fatality than someone living in a less dense borough.



THE OBJECTIVE OF THIS STUDY IS TO
ANALYZE

- The following data factors
 - Age
 - Neighborhood Density: 5
Boroughs
 - Infection Rate
 - Fatality Rate



03.

RESEARCH IMPACT

VALUE TO THE COMMUNITY

- Public awareness
- Containment
- Stop the spread
- Research and Development of New and improved products



TARGET AUDIENCE

POLICY MAKERS

Local, State and Federal
Government



HOSPITAL ADMINISTRATORS



SOCIAL ENTREPRENEURS

TKH



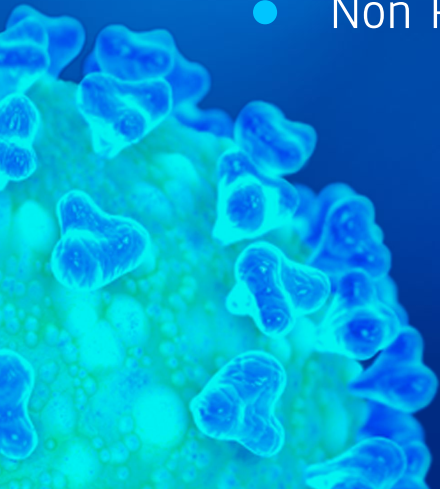
NON-PROFIT ORGANIZATIONS

NY Cares



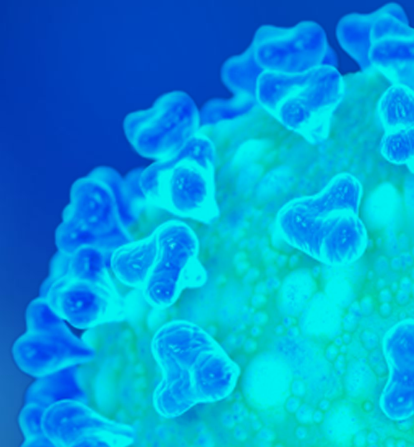
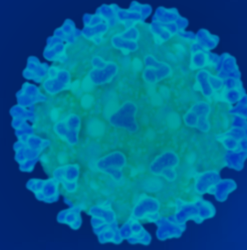
COVID RELIEF BENEFICIARIES

- Healthcare Workers and Essential Staff
- Local Small Businesses Owners and Employees
- Non Profit organizations



04.

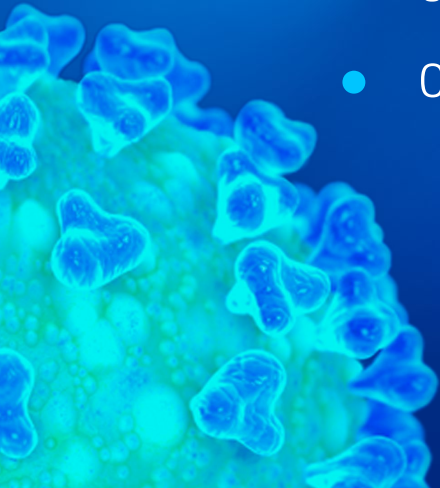
STUDY METHODOLOGY



DATA SOURCE

<https://www1.nyc.gov/site/doh/covid/covid-19-data.page>

- NYC Department of health
- Updated Daily
- Official Data

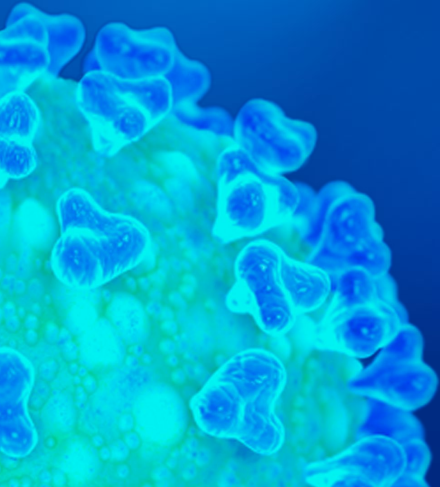


STUDY METHODOLOGY

DATA PARAMETERS

- Large sample
- Median
- Mode
- Standard Deviation
- Standard Error

STUDY METHODOLOGY





05.

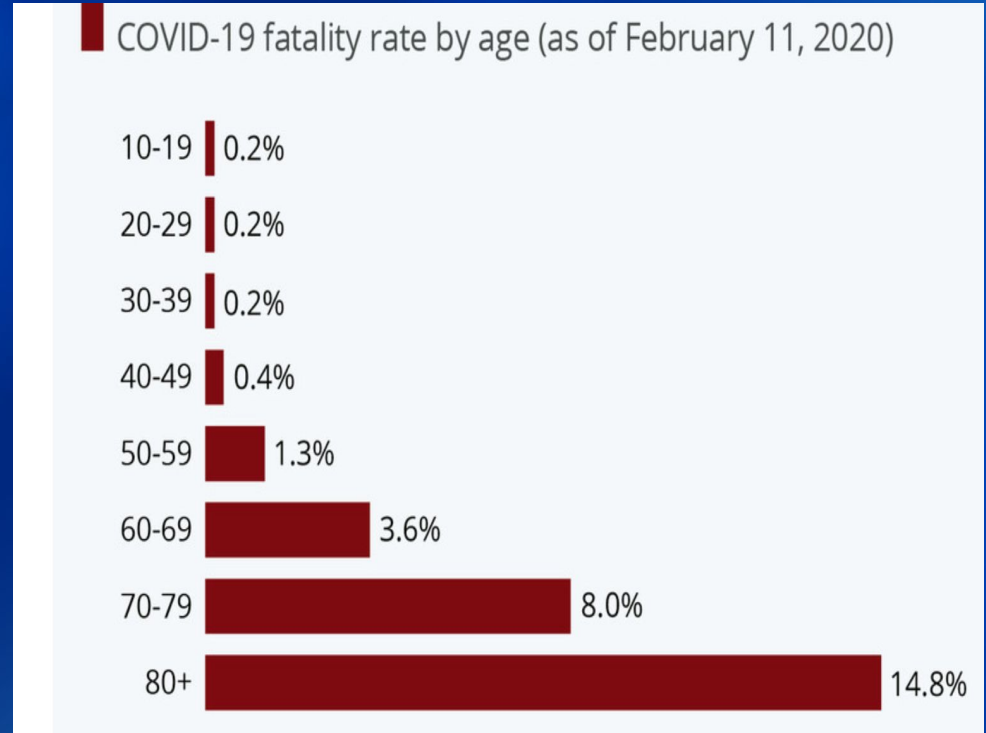
DASHBOARD & VISUALIZATIONS



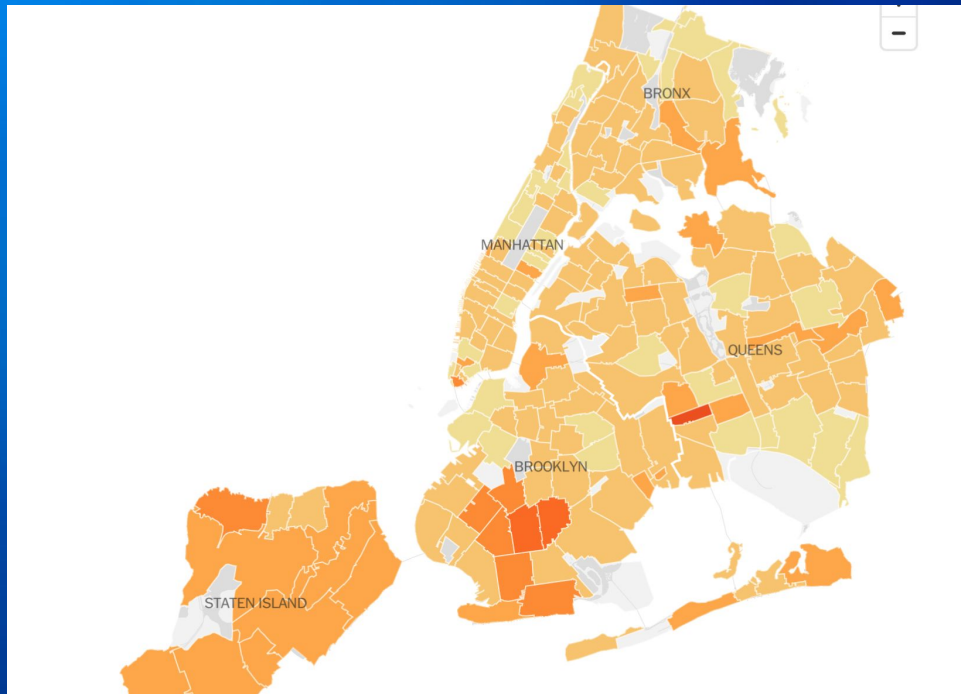
VISUALIZATIONS

BAR CHARTS

- Age ↔ fatality rate



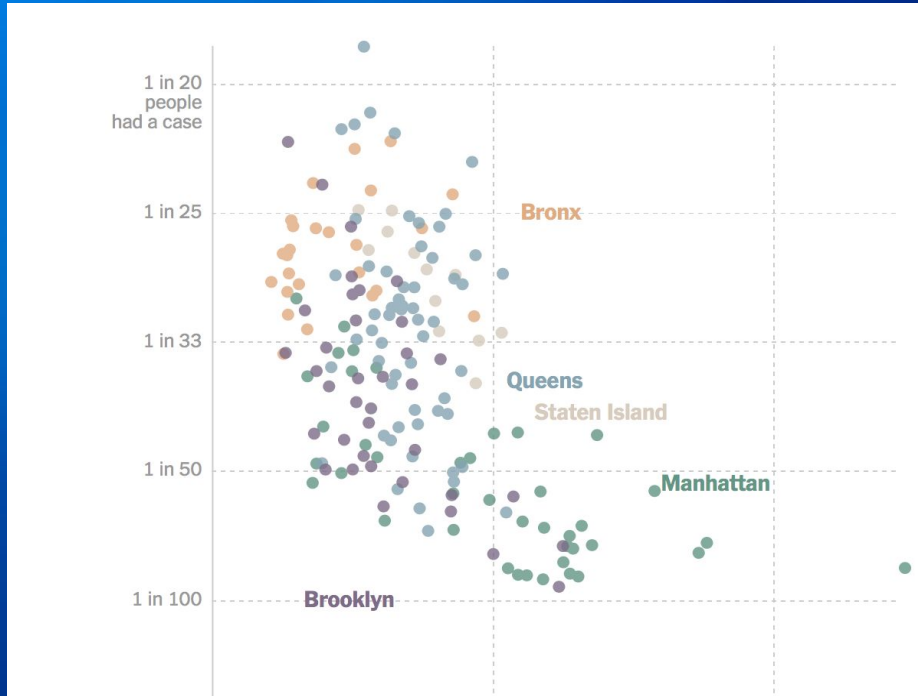
VISUALIZATIONS



HEAT MAPS

- Location and rates of infection
- Correlation between neighborhood density and infection rate

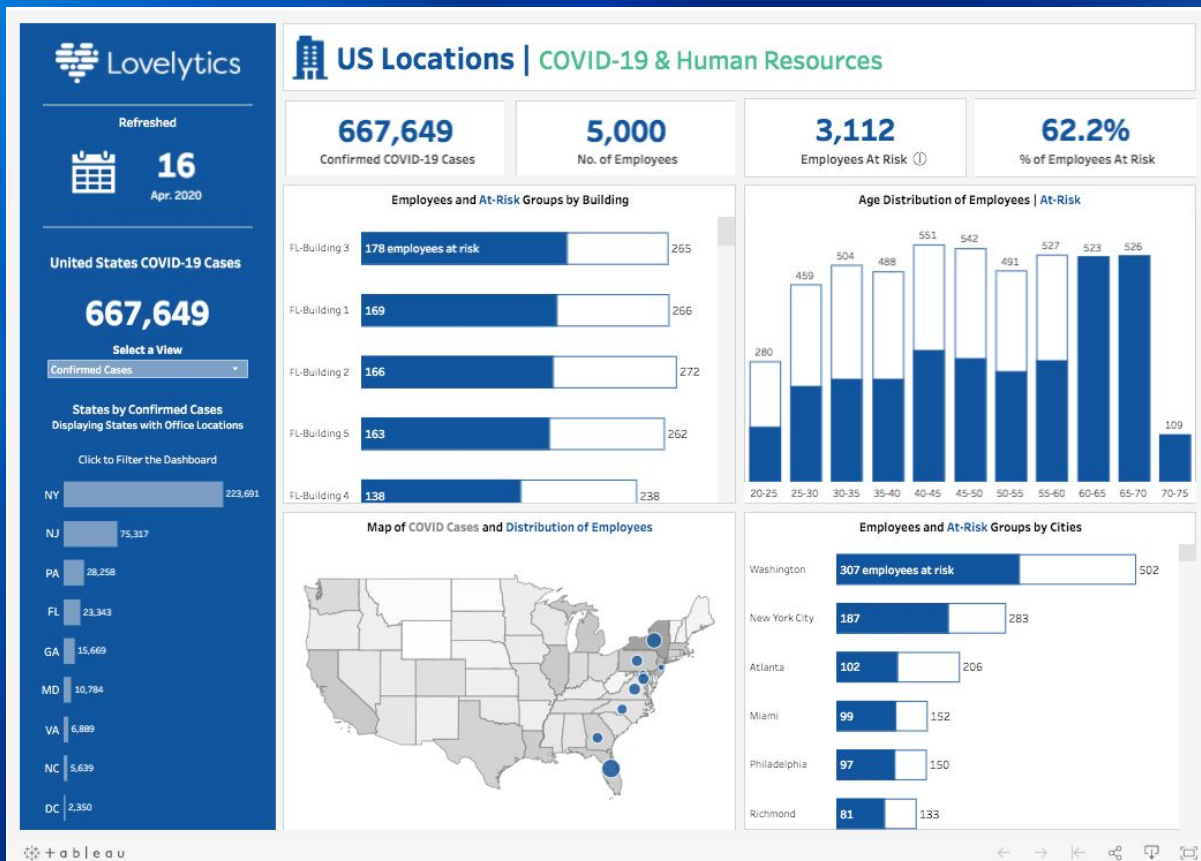
VISUALIZATIONS



SCATTER PLOT

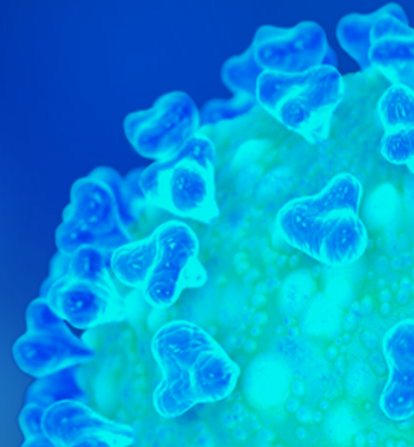
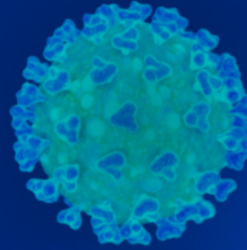
- Variables:
 - Infection Rate
 - Borough
 - Age

SAMPLE DASHBOARD

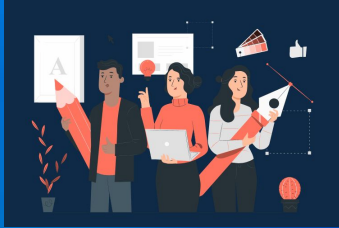


06.

PROJECT TIMELINE



COVID RELIEF PROJECT ESTIMATE



1. Emphasize,
Define, Ideate

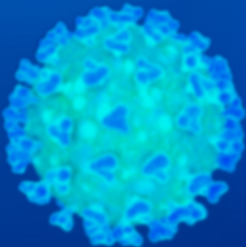

2. Prototyping and
Testing



3. Dashboard Builtout

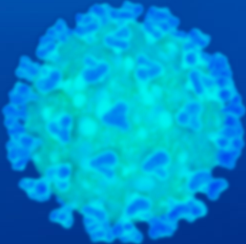



EMPHASIZE, DEFINE, IDEATE

- I. Research Proposal (Weeks 1-4)
 - II. Project Scope (Weeks 4-6)
 - III. Project Estimate (Weeks 6-8)
 - IV. Project Presentation (Week 8-12)
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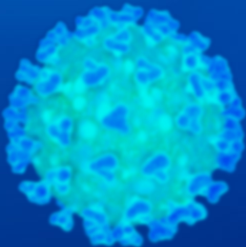



PROTOTYPING AND TESTING

- I. Web Crawling, Data scraping and Cleaning (Weeks 12-16)
 - II. Visualizations (Weeks 16-20)
 - III. Quality Assurance Validation (Weeks 20-24)
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DASHBOARD BUILDOUT

- I. Dashboard and integration of Visualizations (Weeks 25-29)
 - II. Work on data Storytelling and Analyzation (Weeks 29-31)
 - III. Dashboard Web Hosting(Week 31-33)
 - IV. Testing and Maintenance (Week 33-36)
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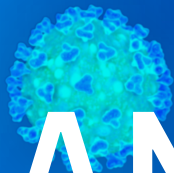
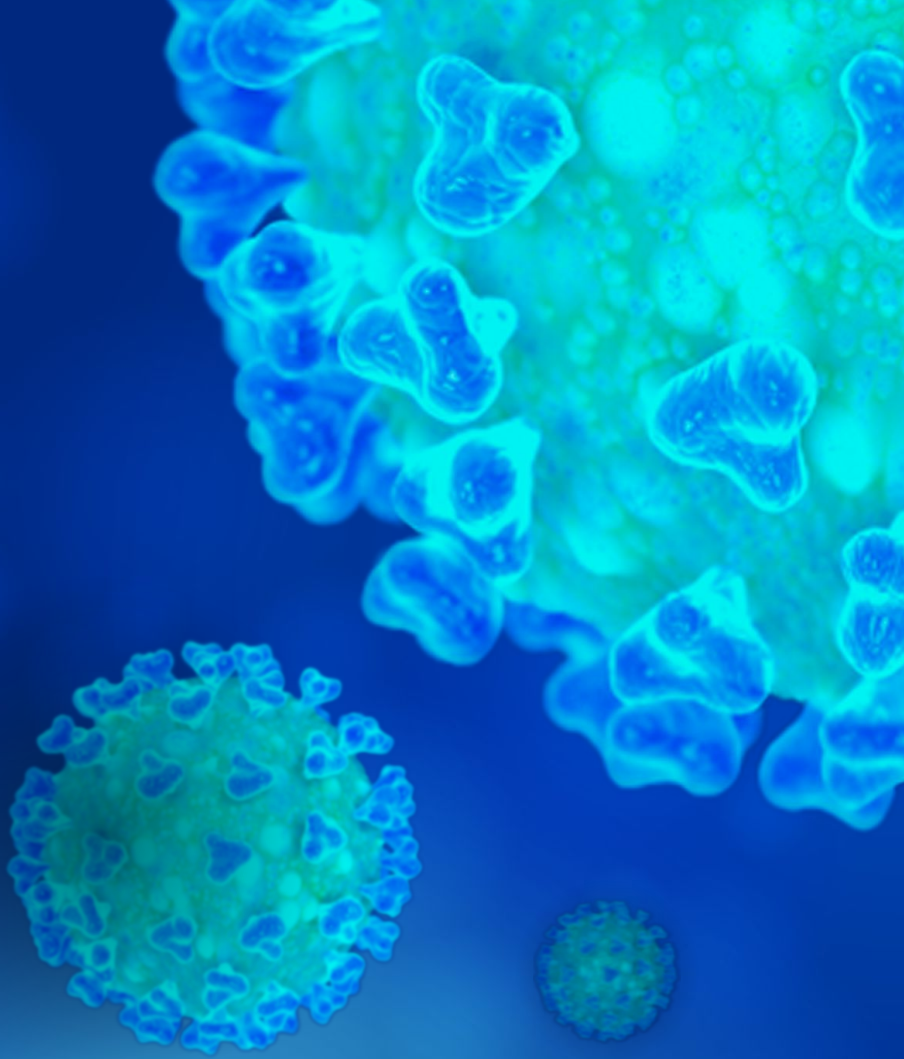
PROJECT **COST** BREAKDOWN

Hosting + domain	\$200 for 3 years.
\$1,800 for each Data Scientist	\$7,200
Maintenance	\$25/hr- 7 hours per week during the first 3 months after the end of the project.
Miscellaneous: (Ex: Licenses)	\$1,600
Final Project Cost	\$11,100.00

ADDITIONAL COST BREAKDOWN

Additional Hosting (if needed)	\$200 for 3 years.
Additional research	\$40 per overtime hours for up to 12 months.
Additional Maintenance:	\$30 per hour.

**Additional Project Tasks Not Included: Security Maintenance and Copywriting



THANKS!



Do you have any questions?

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