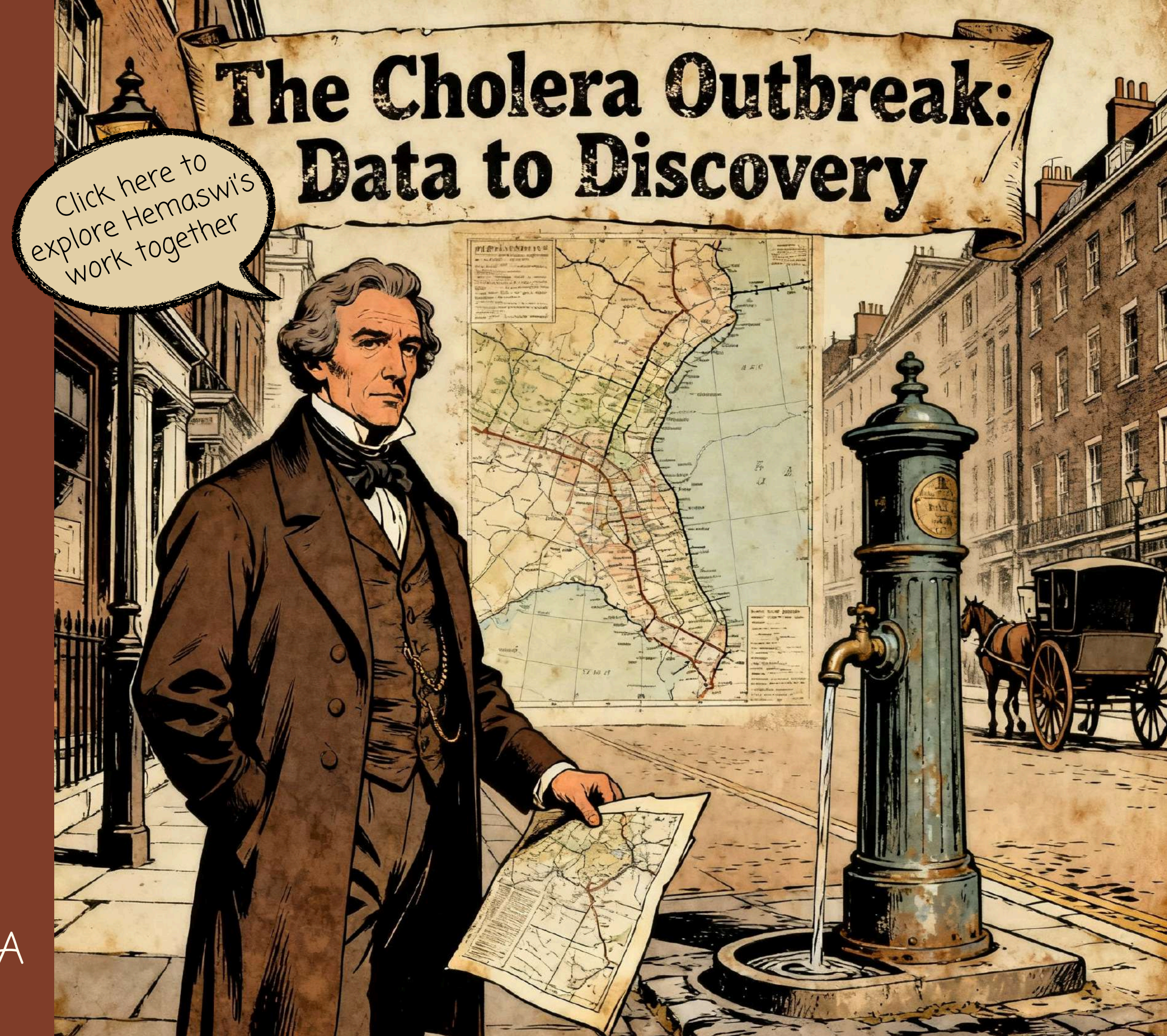


JOHN SNOW'S

CHOLERA MAP



Presented by HEMASWI GORRELA



The Cholera Outbreak: Data to Discovery

Click here to
explore Hemaswi's
work together

SNOW'S DISCOVERY

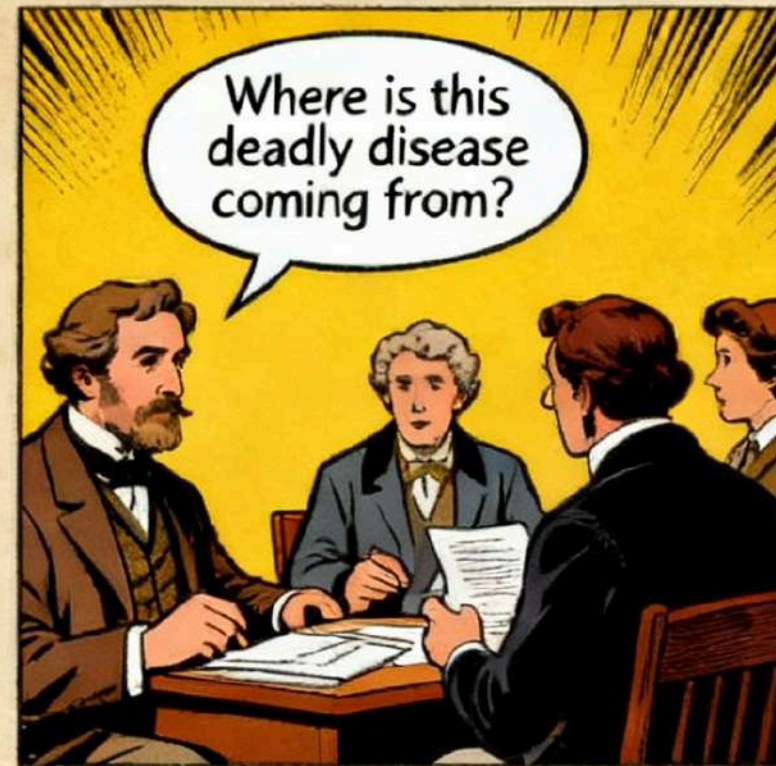
Understanding John Snow's investigation

- 1854, Soho: sudden, deadly outbreak
- 616 lives lost, but many more saved
- Dr. Snow - a data detective!
- Mapped deaths & water pumps
- Interviewed neighbors & searched for clues
- He discovered cholera comes from water, but not air
- Data + maps -> new way to fight disease

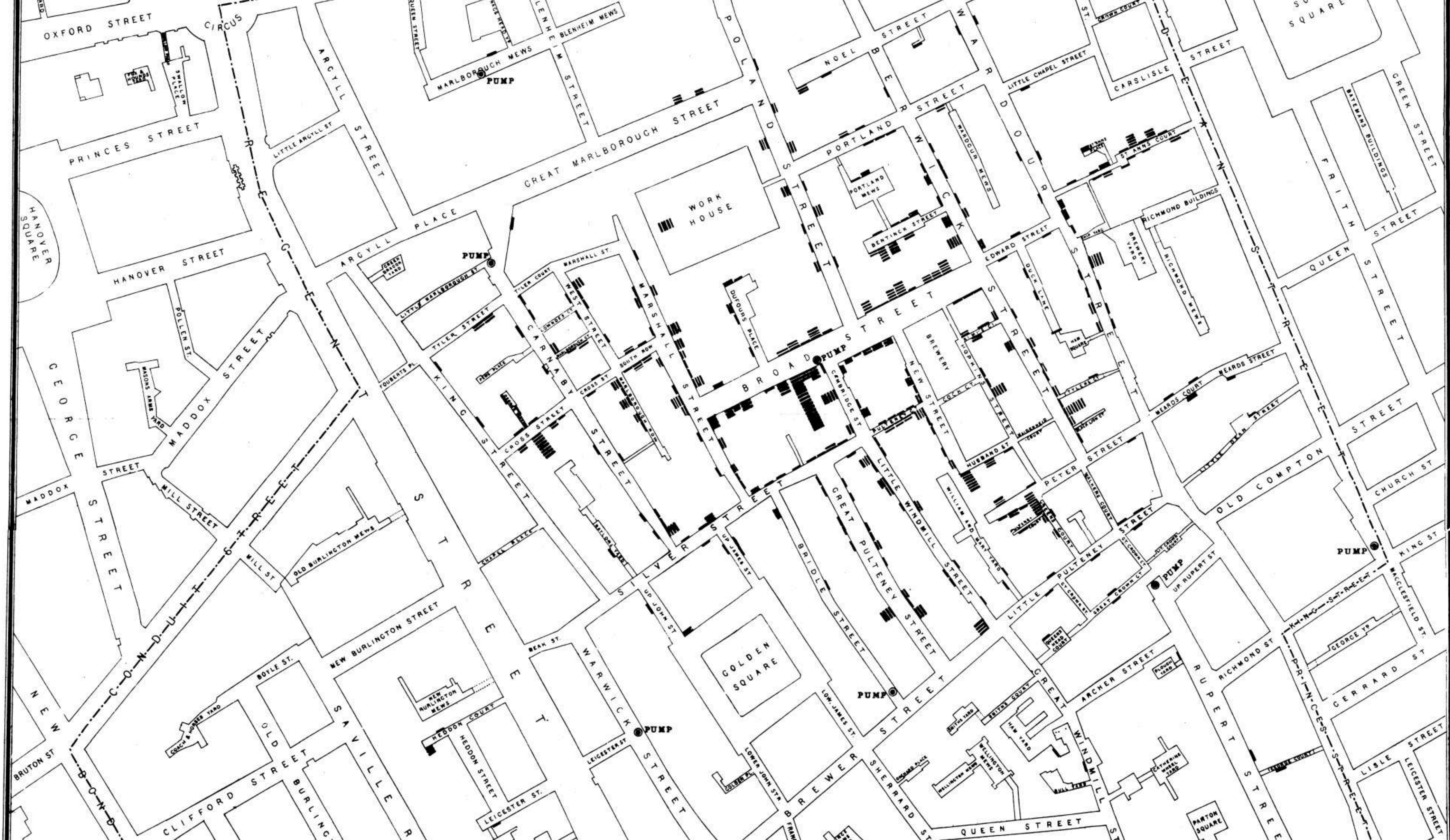
CHOLERA OUTBREAK IN SOHO, LONDON

Sept 1854

616 Deaths



SNOW'S HISTORIC CHOLERA MAP



ITERATION 1:

LET'S REMODEL SNOW'S HISTORIC MAP

Modern
visualization
tools

Creative
hand
sketches

Interactive
techniques

Coded
Maps



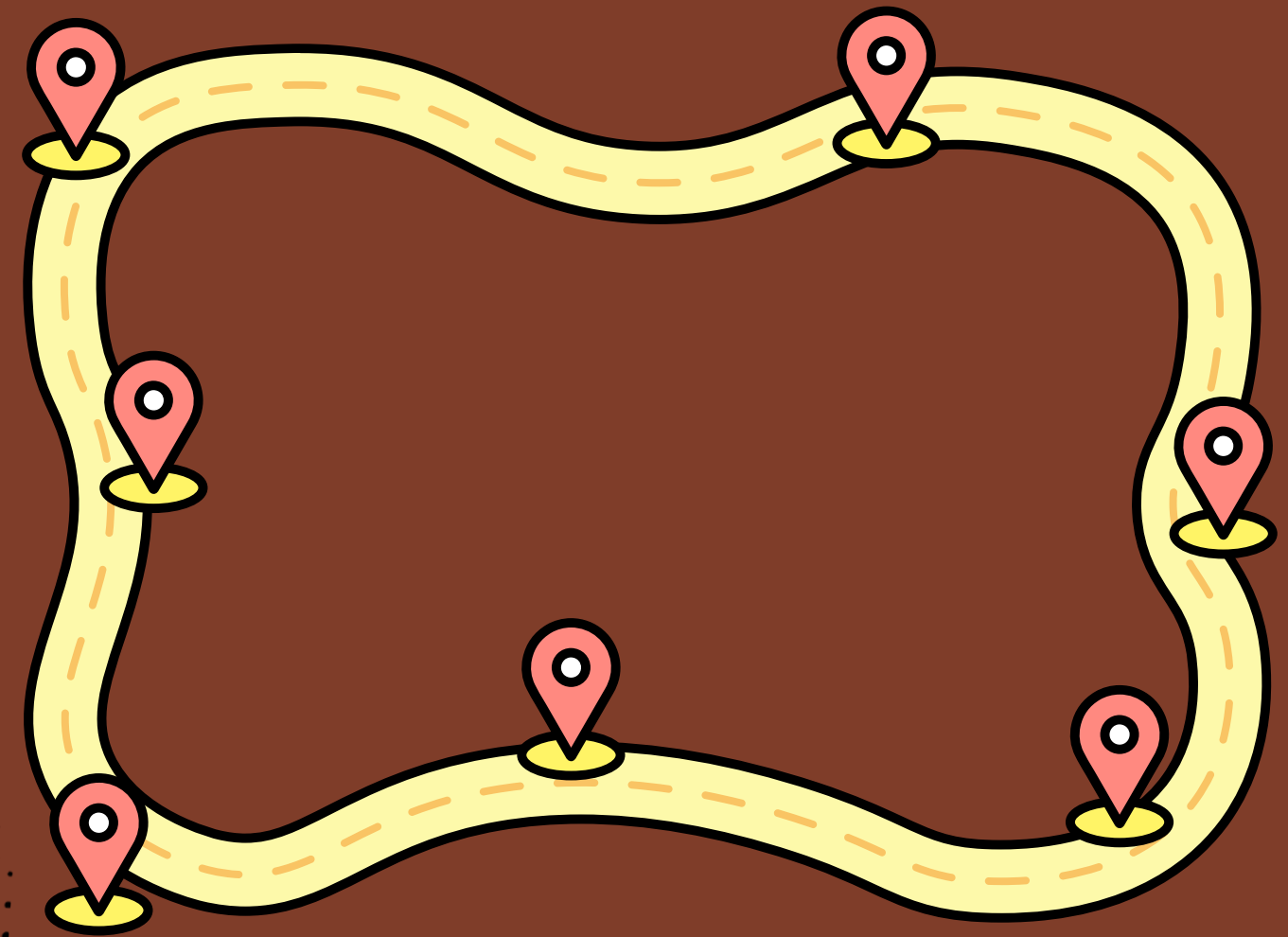
**MADE THE
SNOW'S
RESEARCH
STAND
OUT, NOT
JUST THE
DATA**



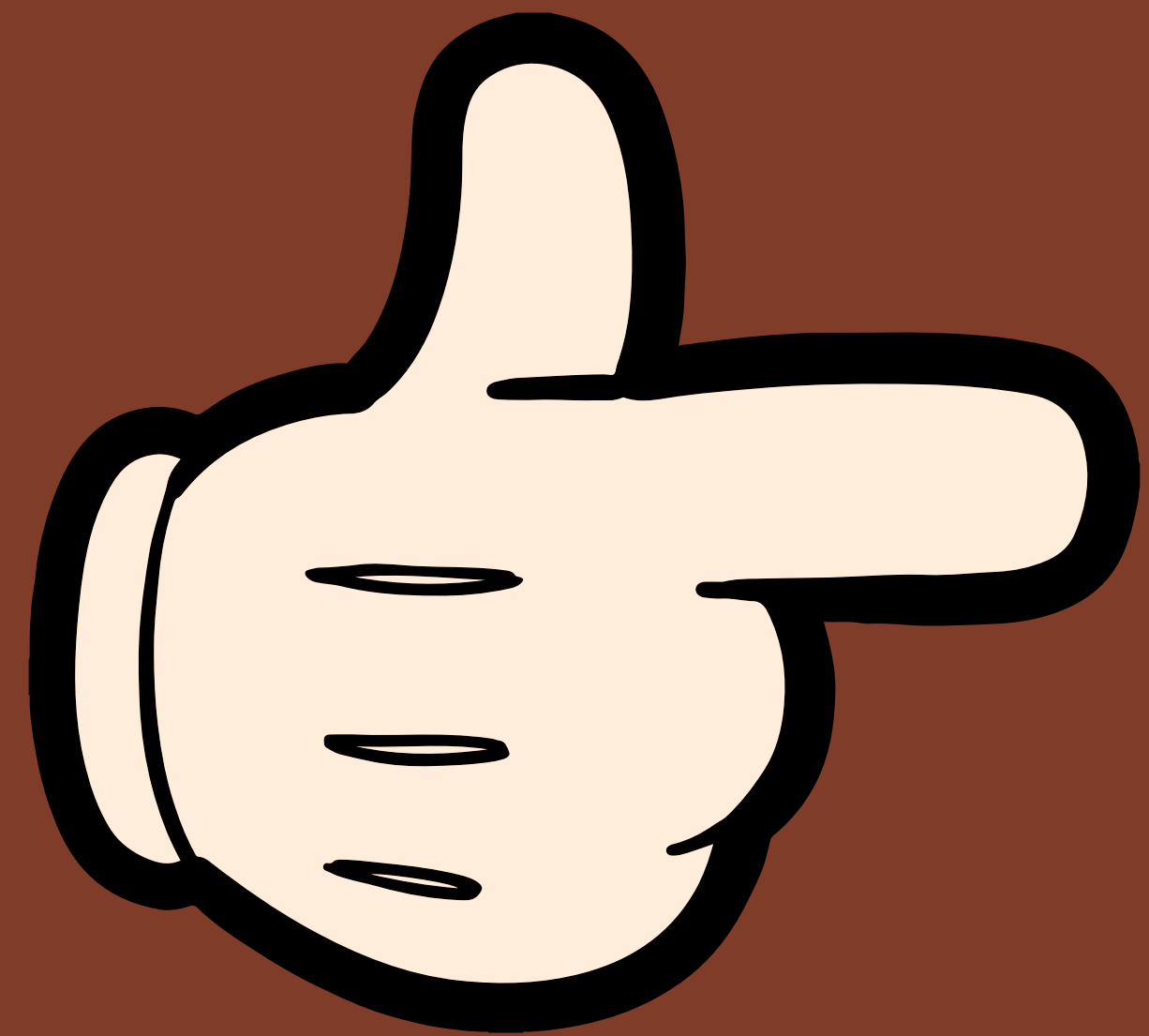
HAND SKETCH OF THE HISTORIC MAP

I drew the
Base Map

Highlighted
peak outbreak
center



- Marked pumps and deaths on the map
- Mapped how deaths dropped farther from the Broad St. pump
- Showed when the handle was removed from the Broad St. pump



- My map markings help the audience look at Snow's research in the visuals instead of just the data
- Visualizing the story behind

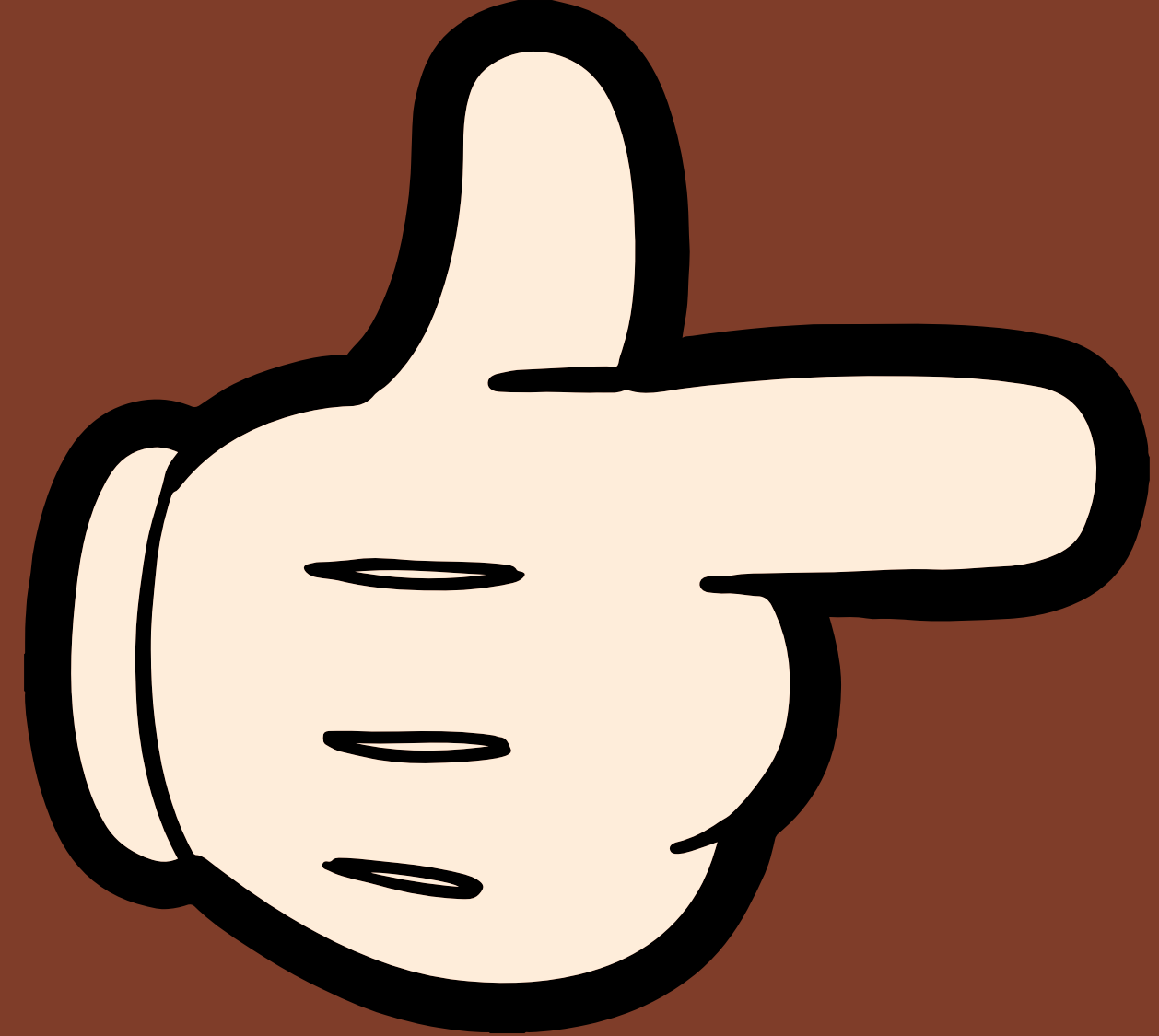
- - Deaths (616)
- - Broad St. Pump
- - Other Pumps
- - Peak Cholera Outbreak Area.
(Sept 1-7, 1854)



ITERATION 2:

FIGMA PROTOTYPE OF THE HISTORIC MAP

- Built on insights and markings from my hand sketch
- Used Figma to organize and clean up the map visually
- Color-coded death clusters based on the intensity
- Kept the design simple with a legend and labels
- Made the story clear before coding the interactive digital map



Deaths during the
peak outbreak.
Sept 1-7, 1854

Deaths before the
peak outbreak,
when the disease
was unknown

Deaths after the
Broad Street pump
handle has been
removed.
They decreased
significantly

- Broad Street
Pump.
Handle was
removed
on Sept 8, 1854
- Other Pumps

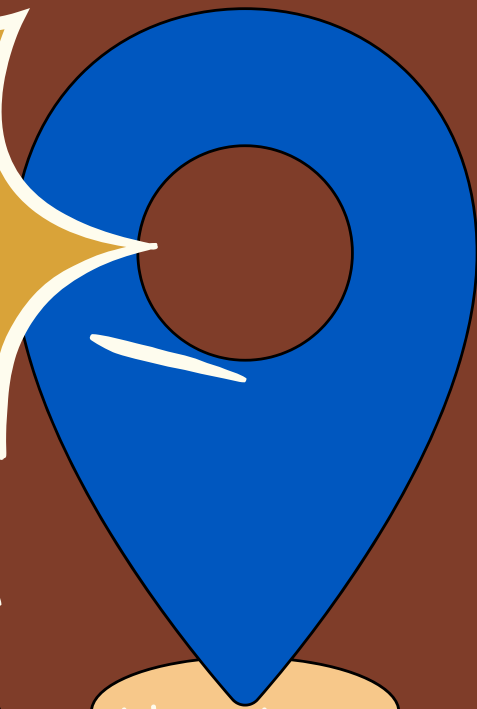


ITERATION 3:

SNOW'S MAP, NOW ALIVE



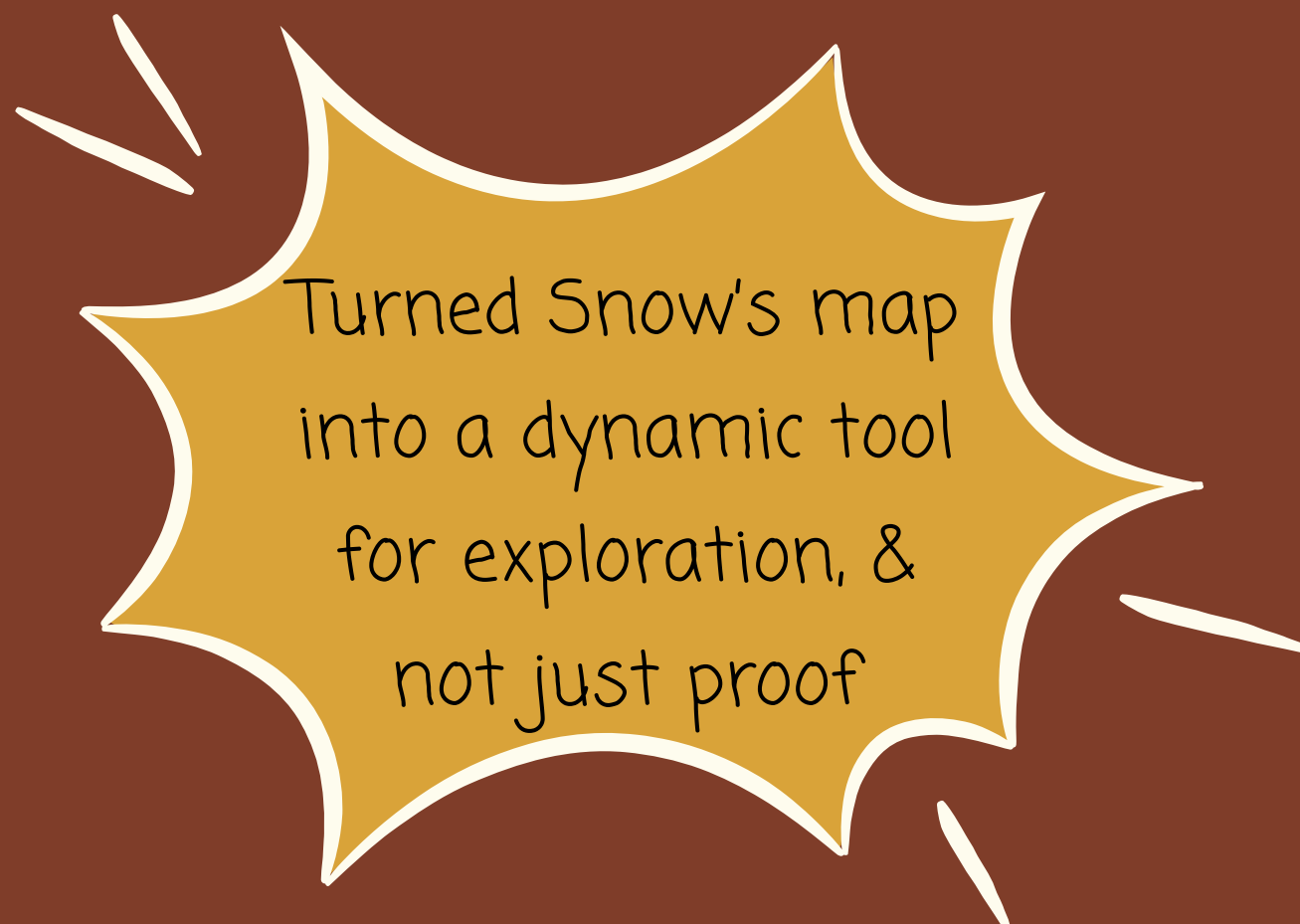
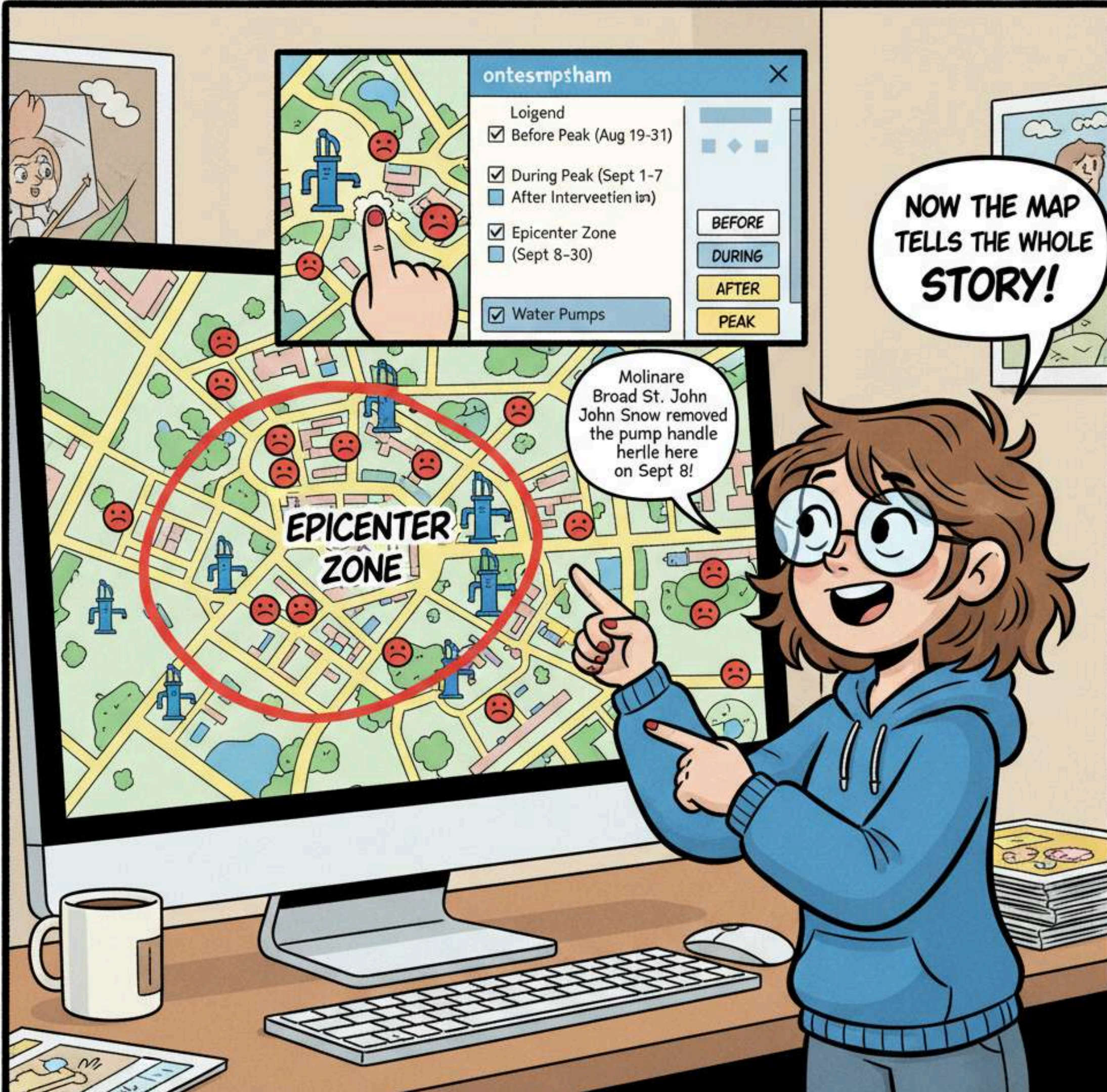
Created a fully interactive digital map with code

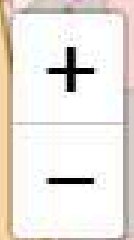


- Included a red circle marking the outbreak center, like the hand sketch
- Shows exact death dates when clicking on points for more detail

Helped users explore the outbreak's spread over time visually

- Added pop-ups that appear when hovering over pumps and deaths
- Made layers that switch views: before, during, and after outbreak peak




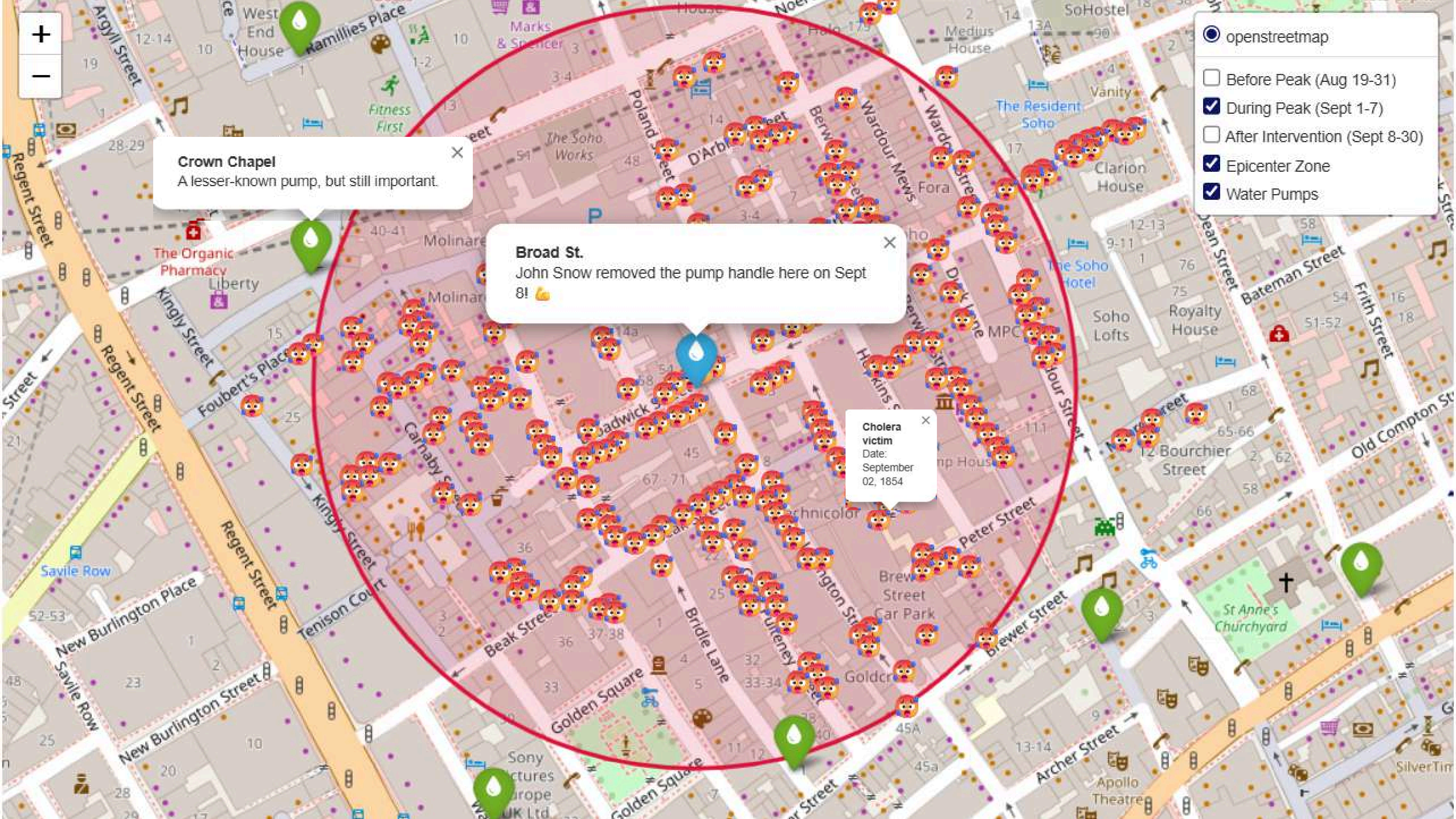


Crown Chapel
A lesser-known pump, but still important.

Broad St.
John Snow removed the pump handle here on Sept 8!

Cholera victim
Date:
September 02, 1854

-  openstreetmap
- ☐ Before Peak (Aug 19-31)
- ☒ During Peak (Sept 1-7)
- ☐ After Intervention (Sept 8-30)
- ☒ Epicenter Zone
- ☒ Water Pumps



CONCLUSION = From Data to Discovery!

DATA BROUGHT TO LIFE

- My redesign shows the full story behind Snow's data—how the outbreak spread and changed over time.
- Combining hand sketches, interactive coding, and storytelling makes the data vivid and meaningful.



***HISTORY
REIMAGINED!***

This approach helps viewers not just see numbers, but truly understand the human efforts and history

***THANK YOU FOR
EXPLORING!***

The project turns a static map into an engaging, informative journey anyone can explore.

