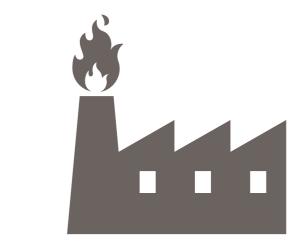




A Simple Task-

Documenting the ways humans have intervened or can intervene in Boston's land.







The Team-

Our interdisciplinary team created this project for CMS.633: Digital Humanities



Erick Friis
Electrical Engineering & Computer Science

Web developement Technology coordination



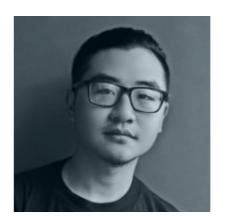
Maya Madhavan Mathematics

Data collection & research Narrative writing & documentation



Michelle Gelberger Media Arts & Sciences

Project management Interaction & experience design Data visualization & graphics



Calvin Zhong
Architecture & Media Studies

Project management Conceptual & narrative development Mapping & data visualization

Towards Truth-

The rise of interactive digital journalism has powerful implications for news dissemination. In an effort to tackle a post-truth society, we hope to develop an idea focusing on the accurate representation, delivery, and accessibility of data in media. Our project will tie in qualitative information to create a holistic approach to representing the issue that takes a position, critically explains the data, and removes ambiguity between truth and alternative fact for the public.

This project will re-evaluate the role of data scientists, journalists, and designers in informing the public and making information, data, and factual evidence accessible for everyone once again, while providing a template for others to do the same.



Research Questions-

1 /

How can we effectively display some of the causes and effects of the rising sea level on Boston's topology in a way that audience members can easily understand?

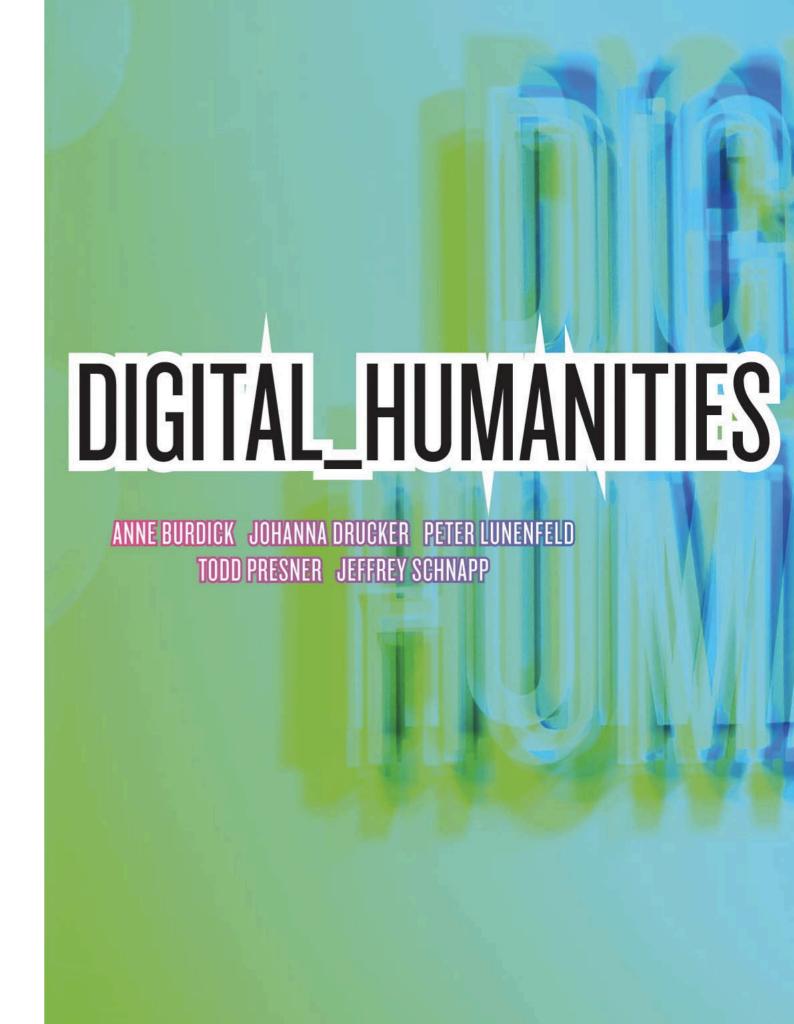
2 /

The way information is disseminated has drastically changed since the introduction of the web. How can we apply technology to tell a truthful story about climate change and its far reaching impacts in the face of rampant false news?

Context-

Johanna Drucker
Edward Tufte
Daniel Rosenberg
Anthony Grafton
Clay Shirky
Vannevar Bush

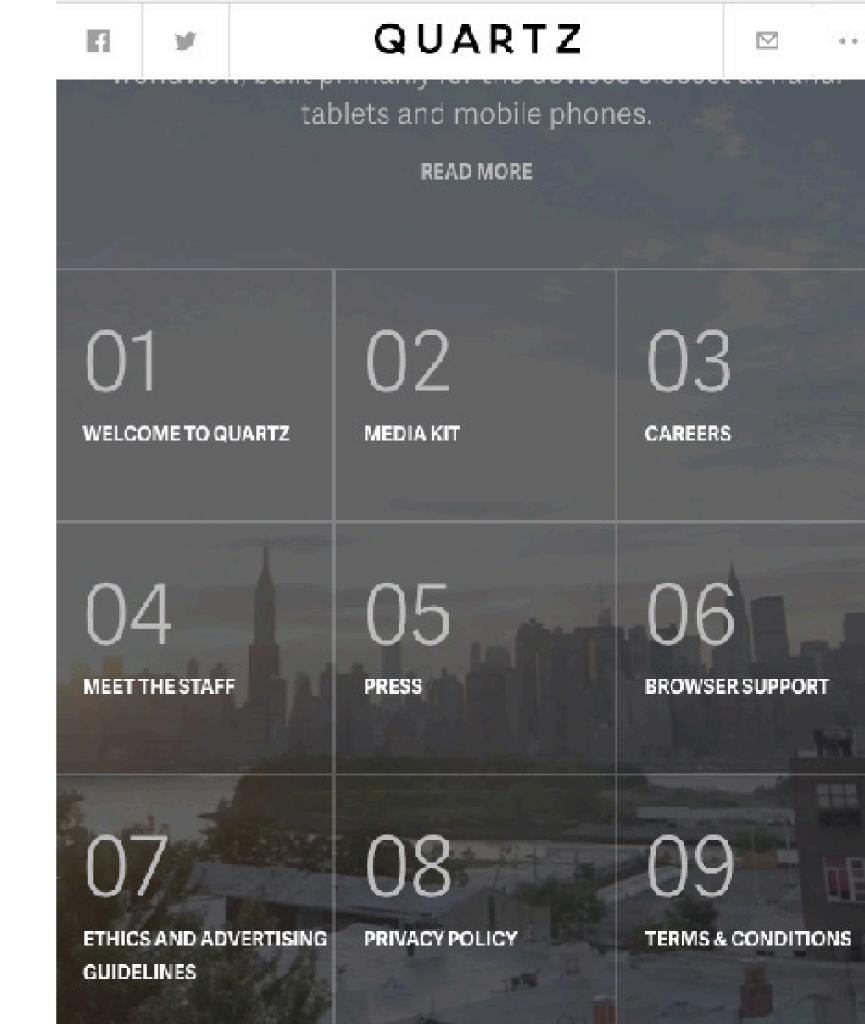
Post-truth politics and media supercede the importance of truth; pertaining to an era or situation when truth is no longer significant or relevant; usually in a pejorative sense, uncaring of factual accuracy.



Influences-

Sasaki: Sea Change
Quartz
Vox/AJ+ Videos
NYTimes Interactive

NOAA





Research-

Past: 2 Eras

Reclamation- Shaping Boston Industrialization- Spurring Climate Change

Present:

Preventing and Defending Against the Rising Seas What-Images, qualitative and quantitative info Web based-gov't/educational sites, etc...

Future

Conjectures ≠ Fact Choices about Data



Audience –

- 1 / A Young Student
 who knows nothing about climate change.
- 2 / A Skeptic who can be conviced that climate change is an issue.
- 3 / A Resident of Boston who is worried that climate change will affect their future.
- 4 / A Climate Activist
 who wants to use this data to encourage people to act!



Journey Map -

What are you thinking?

You only care about the raw data and want to access it.

You want to know where this information is coming from.

You're unsure or disagree with one of our claims.

You want to adapt our digital storytelling to your own data.

How will we help?

The data will be accessible in its original source.

Easily explore extensive representations and visualizations.

Documentation of our sources will be readily available for you.

You can use our article as a framework for your applicable data.



Development-

1 / Sketches & Concept

Whiteboard sketches + deciding on a website with compelling visualizations.

2 / Static Prototype

Digitizing static prototypes of our sketched out ideas, incorporating principles of user interface design and experience design.

3 / Interactive Prototype

Interactive prototype, solidifying data points, writing our narrative.

Home Page



Boston's Past - Underwater



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Development-

4 / Web Prototype

Simple web prototype with a first pass at our journalistic narration, and dynamic relevant map imagery.

5 / High-Fidelity Prototype

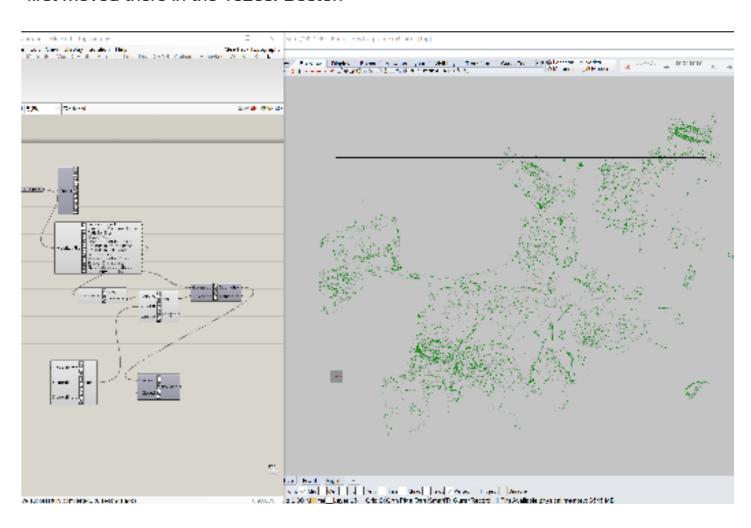
Fully implemented website prototype with narrative, interactive maps, call to action page, and an about/resources page.

Boston Underwater

Land Reclamation

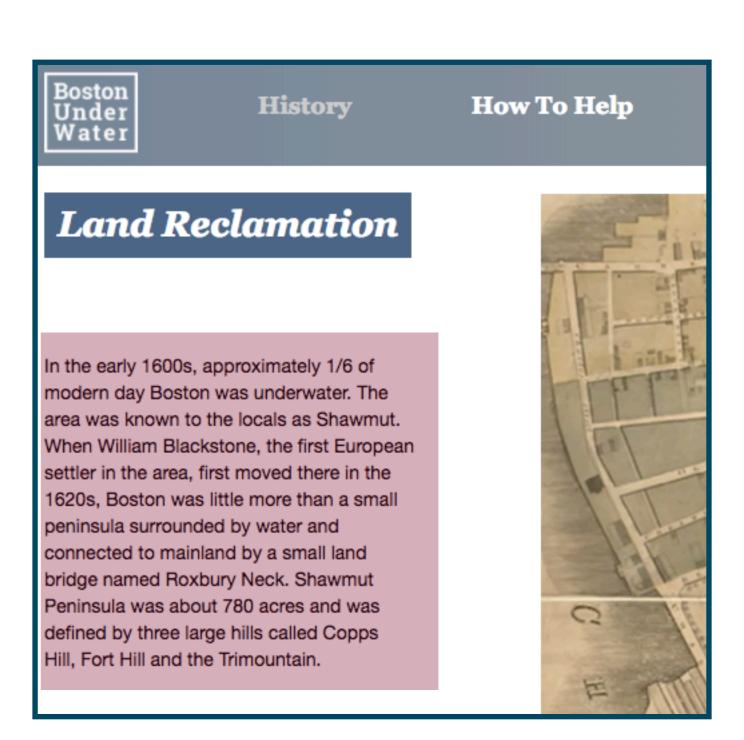


In the early 1600s, approximately 1/6 of modern day Boston was underwater. The area was known to the locals as Shawmut. When William Blackstone, the first European settler in the area, first moved there in the 1620s. Boston



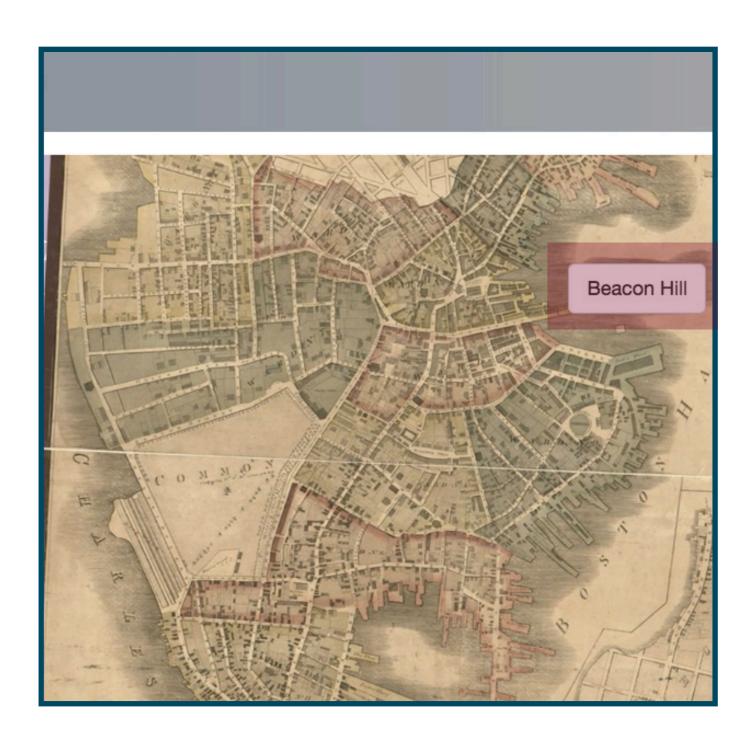
Flexible Technology-

```
// Adding to Storyline
{
  top: 100,
  content: "In the early 1600s..."
},
{
  top: 4500,
  content: "<h2>Industrialization</h2>"
}
```

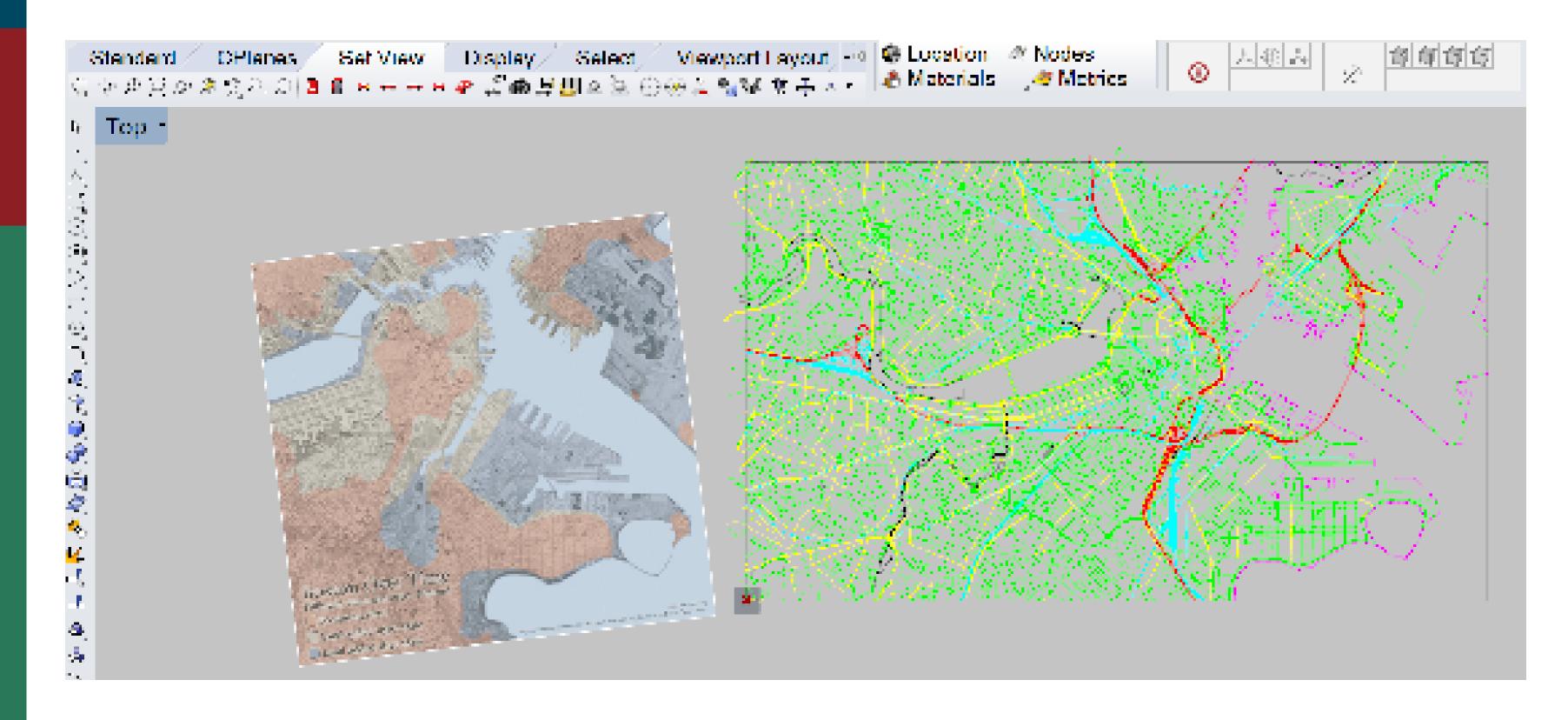


Flexible Technology-

```
// Adding to Storyline
  top: 400,
  bottom: 1400,
  type: "modal",
  button: "Beacon Hill",
  modal: {
    title: "Beacon Hill",
    body: "It is a..."
```

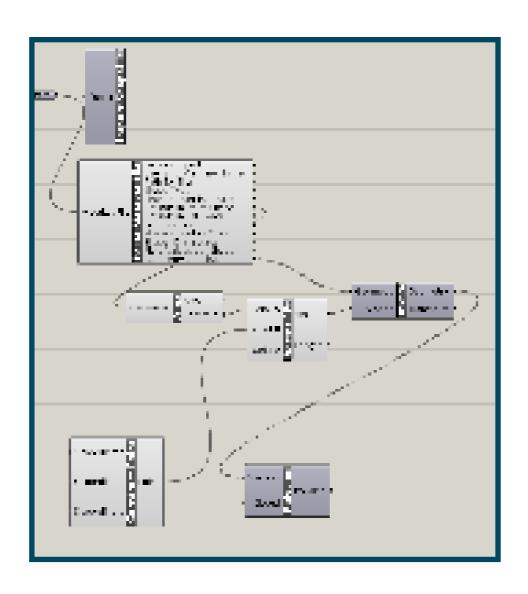


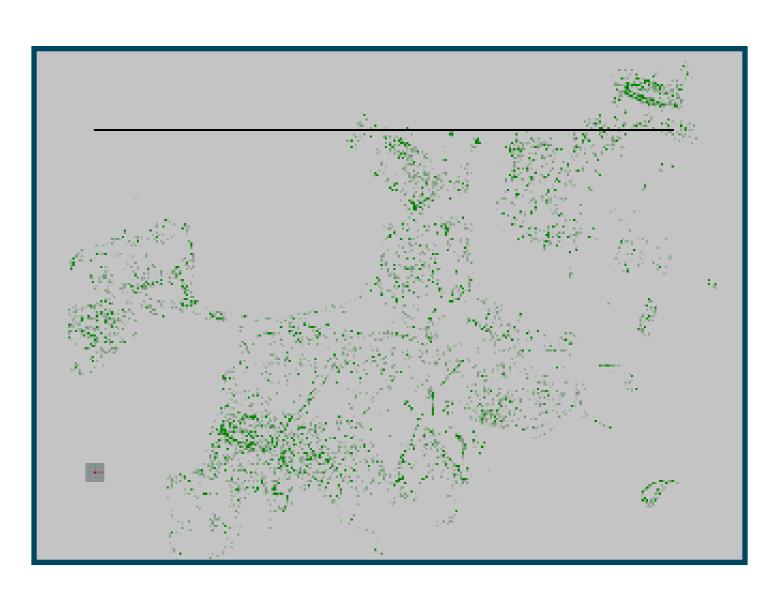
Qualitative Data-



Quantitative Data-







Raw Data (GIS)

data.boston.gov

Visual Programming

Grasshopper

Generated Model of Data

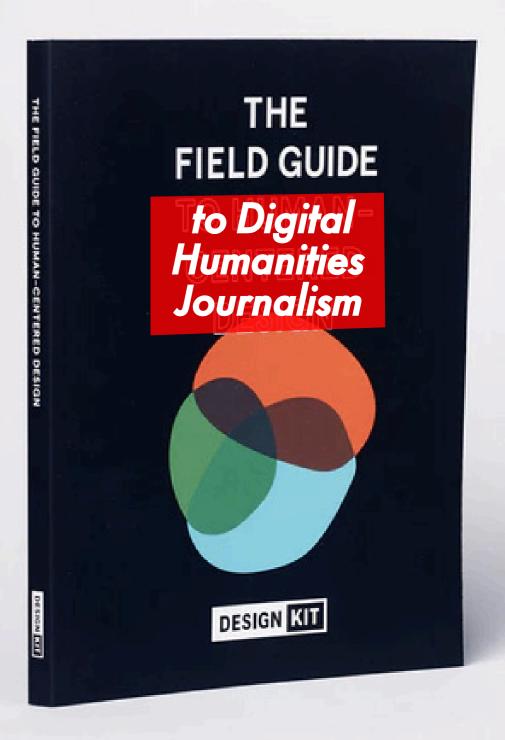
Rhinoceros 3D

The Future-

1 / Improving Data
data.boston.gov does not have data that is easy and accessibile for use.

2 / Improving Design
Solidifying our branding + iteration over our map designs

3 / Extending the Ethos
Applying this template to help other cities and topics



Conclusions-

We're presenting an issue, so we've also put together clear actions our visitors can take to mitigate the issue. We've looked at a multitude of organizations and groups aiming to convey this information, so we owe it to our visitors to give them access to the same information.

We've struggled with a lack of truly accurate data, so we're transparent to our visitors that the data they're consuming daily might not be as accurate as they think.

We've pivoted from focusing solely on compelling imagery to solidifying the holistic nature of our process. Our goal is templating data and information accessibility— in narrative, visual, and resource form.

