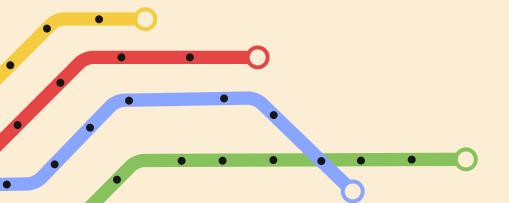
#### **Project Team 11:**

## **MBTA Headways**

Rose Nolan, Ananya Kadwe, Anya Lefkowitz

COSI 116A - Prof. Dylan Cashman, Brandeis University

Fall 2024



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#### **Problem Statement**

- Helps users understand how headways are distributed across different MBTA subway lines
- Understanding patterns within headway data and headway trends over time
- 3 Visuals
  - 1. Map view
  - 2. Comparative bar chart
  - 3. Stop-specific bar chart



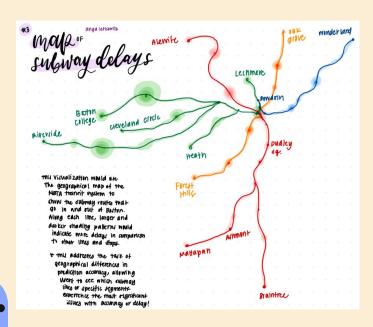
#### **Data Description**

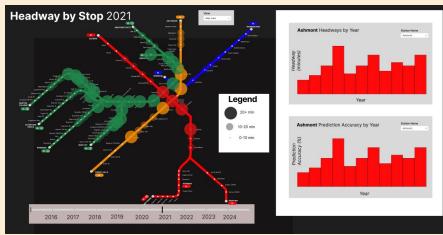
- Utilized MBTA's Rapid Transit Headway data from 2016-2022
- Primary data and reprocessing information:
  - o grouped data by stop\_id, direction\_id, destination
  - aggregated headway\_time\_sec to preserve avg. headway per stop
  - o matched stop\_idto stop\_name

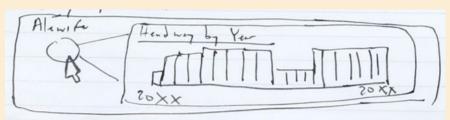
#### Interview

- Results
  Anya: delay experiences in varying transit types (especially during specific seasons)
- **Rose:** wide variety of experiences with MBTA, helpful to hear from people who are both familiar and unfamiliar with the MBTA system
- **Ananya:** dissatisfaction with MBTA digital tools and current prediction accuracy models

#### **Sketches**







# Visualizations

