Chester Square Park Green Space

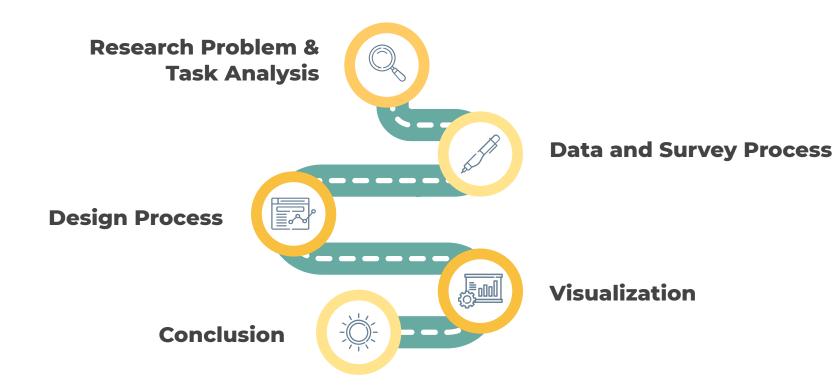
Team 5

Sarah Chou, Megan Lau, Hannah Marrow

DS4200 Fall 2019 — Professor Cody Dunne Northeastern University



Agenda

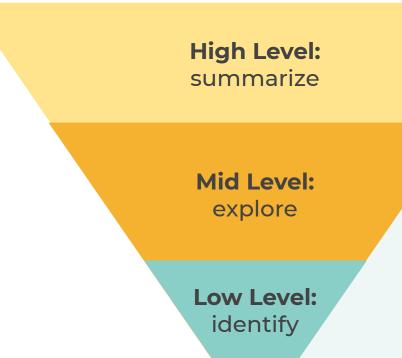


OUR RESEARCH PROBLEM

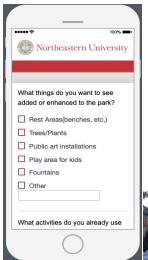
In such a limited space, what is the best, most effective way to utilize the park to improve the neighborhood?



Task Analysis



Data and Survey Process









Draft Sample

Questions were sent to Carol for approval and later fixed with edits

Qualtrics Online Survey

Based on a Marketing Research class, an online survey was created in Qualtrics. Carol distributed the survey link to the Chester Park and Friends of Chester Square Park email list.

In Person Survey

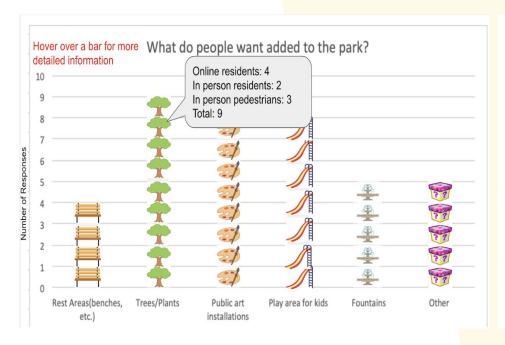
We printed out paper versions of the surveys and distributed to residents and pedestrians in person.



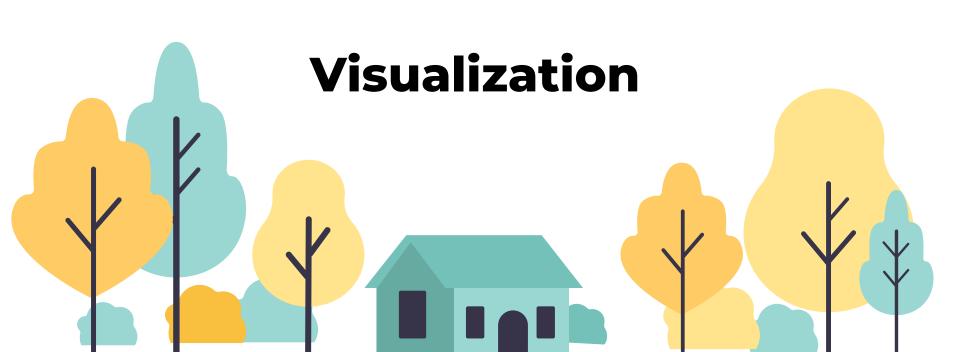
01

Sample Size N = 27











Isograph

Visually stimulating, each unit represents a response



Legend

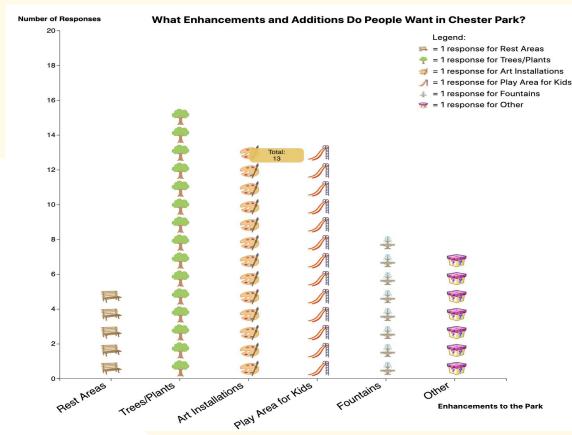
Discussed with Carol which categories to include.



Contains an "Other"

section for open ended responses







Number of Responses

10-

Grouped Bar Chart

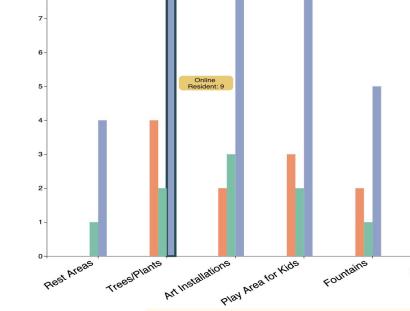
Used color encoding to differentiate between the three different survey groups.

Colors have been tested for color blindness

Breakdown

Deeper insights to draw analysis - what kind of people responded in what way?





Response Counts for Different Survey Groups

Legend:

Enhancements to the Park

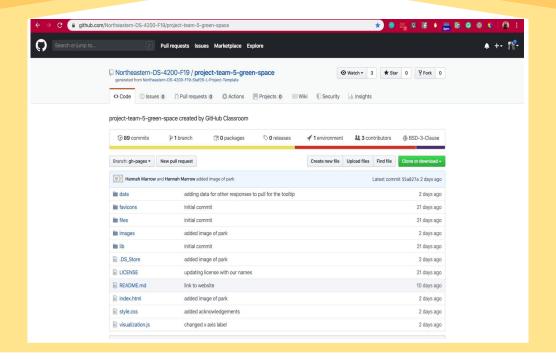
In-Person Pedestrian
In-Person Resident

Online Resident



Website Demonstration









Conclusion

Data Insights



Depending on the person's background, they have different needs.

- Residents
- Pedestrians

Focus on the Current Functionality

Instead of implementing all brand new features, focus on the things that already exist in the park, like trees and fountains, and improve these.

Most Desired Enhancements

The data shows the most frequent responses to our research question to be trees/plants, followed closely by art installations and a play area for kids.



Challenges



STARTED WITH NO DATA, NO APIS

Had to figure out what we wanted to ask, and go out and collect our own data.



LACK OF SURVEY RESPONSES

We did not have much data to work with after first online survey, so we had to go out in person and collect survey data on paper in order to create meaningful, robust visualizations



LEARNING D3

Difficult working in D3

Version 5.

Very few examples,

especially for
the isograph.



Future Improvements



CONNECT SURVEY DEMOGRAPHICS TO RESPONSES

Link gender/age info to responses to draw further conclusions

BE CLEAR ON WHAT SURVEY ANSWERS MEAN

(Drinking fountains vs decorative fountains. Plants OR trees.)



INDICATE
PERCENTAGES ON
GROUPED BAR

Different totals for each response type might be misleading



DO MORE DATA COLLECTION

More data is always better!

CREATE
VISUALIZATIONS
FOR EACH
QUESTION WE
ASKED

How often do you use the park? How would that change?

THANK YOU

Does anyone have any questions?

Contact us:

Sarah Chou: chou.s@husky.neu.edu
Megan Lau: lau.me@northeastern.edu

Hannah Marrow: marrow.h@husky.neu.edu

https://github.com/Northeastern-DS-4200-F19/project-team-5-green-space

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