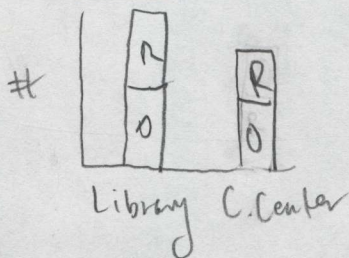
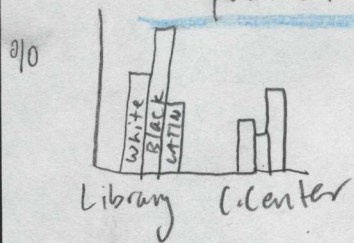
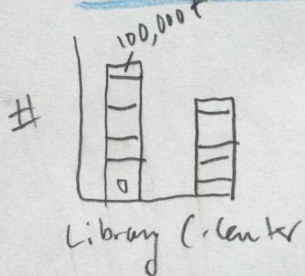


1. Ideas

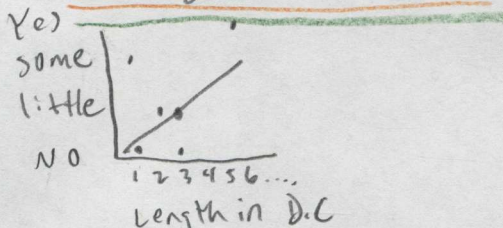
1 Race/Vacant Lot 2 Rent/own Vacant



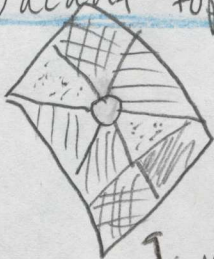
3 Income/Vacant



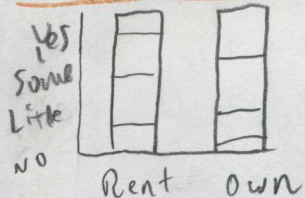
4 Feel included in neighborhood decisions?



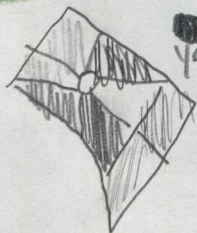
6 Vacant top choice



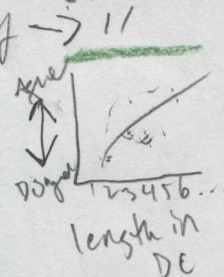
5 Included in neighborhood decisions?



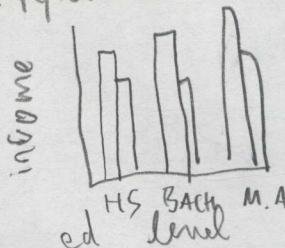
7 Afford to pay rent in my neighborhood?



8



1. Median income among single employed men/women w/o roomies > 194.0.



2. Filter

9 is pretty niche and stands alone

4+8 could show correlation but may have clusters near axes intersection

1, 2, 3, 5 Bar charts w/ range of content. Could combine

3 Categorized by color

vacant lot preferences

Affordability

Income gap by gender

neighborhood activism

4. Combine + Refine

Affordability map + trendline 7+8

Neighborhood decision inclusion sex, race, and homeownership status

4+5 + demographic details

Vacant lot preferences

1+2+3+6

Best map + bar chart combination?

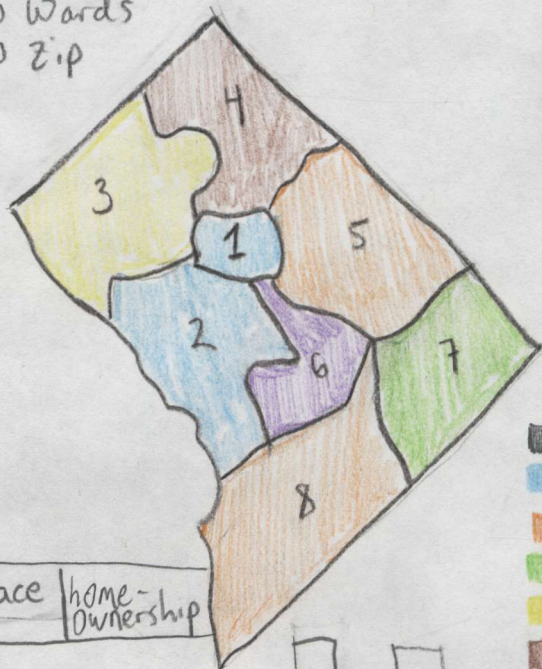
James Marshall

Sticky note brainstorm - 3/4 | This sheet - 3/8

Layout

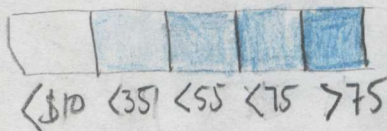
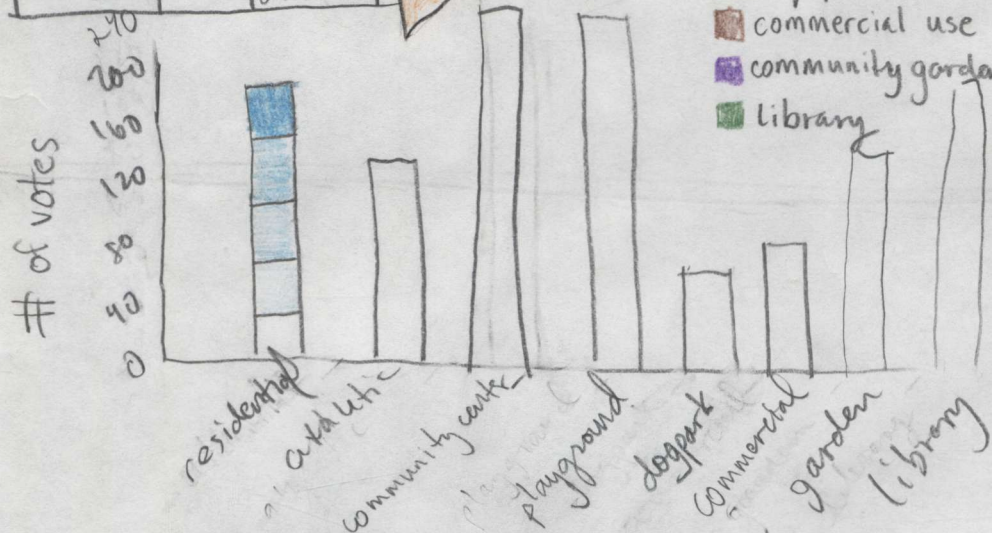
vacant lot preference	median income	race	homeownership rate
-----------------------	---------------	------	--------------------

- ☒ Show words
- ☐ Show zip

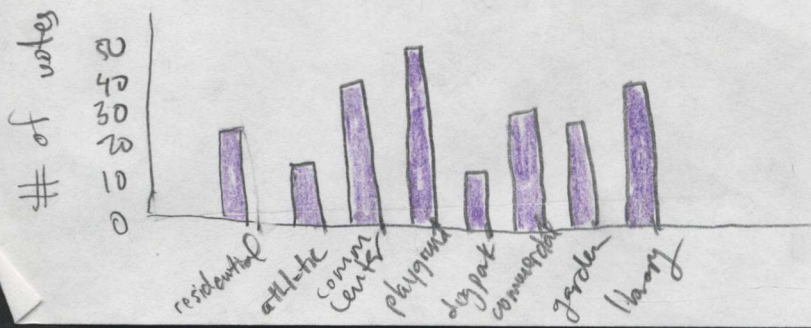
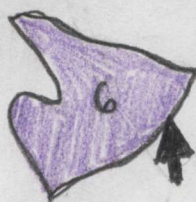


- athletic fields
- residential
- community center
- playground
- dog park
- commercial use
- community garden
- library

income	race	home-ownership
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Zoom/focus



How DC residents want to use vacant lots

James Marshall / March 4, 2008

Sheet 2

Look up and compare values

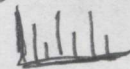
OPERATIONS

vacant	income	race	own-rent
--------	--------	------	----------

• Change the map to see words broken down by 4 attributes



• explore the details of respondents w/in a particular ward



• Scroll down to see 3 more bar charts that show data from all survey respondents broken down by race, income and homeownership rate

DISCUSSION

+ Shneiderman's mantra applied

- Can't see ward bar charts side by side
- Survey may not be as representative as census

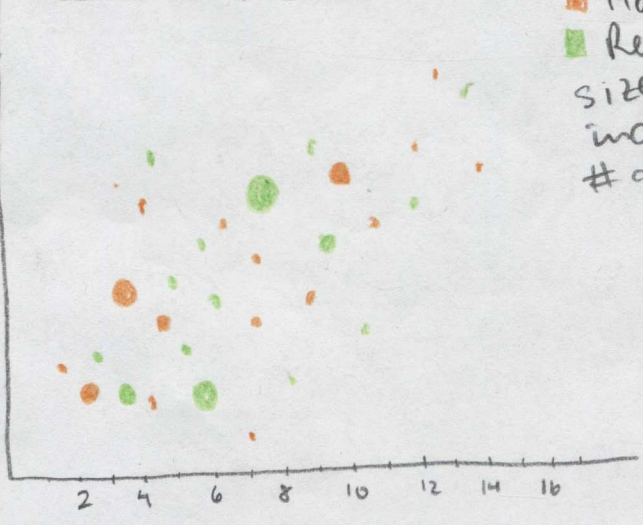
LAYOUT

Extent you feel included/want to be included in neighborhood decisions

To a great extent
To a great extent
Somewhat
Somewhat
Very Little
Very Little
Not at All
Not at All

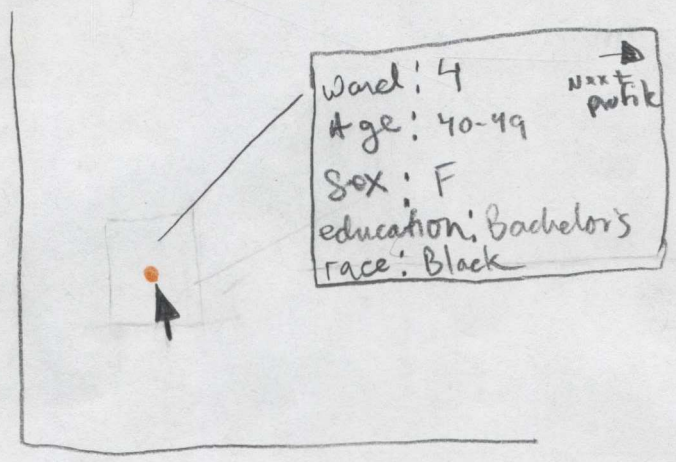
sex race own/rent

Homeowner
Renter
size of circle indicates # of respondents



Years Living in D.C.

Zoom/Focus



Do DC residents feel included in neighborhood decisions?

James Marshall | March 4, 2019

Sheet 3

Show trend

OPERATIONS

SEX RACE own/rent

Click buttons to change colors of dots to indicate the race, sex, homeownership of a survey respondent



Hover over a dot to see a profile respondent's profile

WANT FEEL

dropdown menu changes question from want to be included to feels included

DISCUSSION

- + can determine which factors contribute to neighborhood inclusion/exclusion
- can't filter by ward or neighborhood

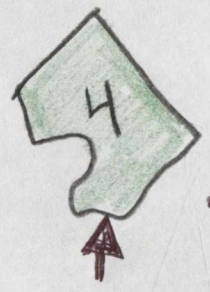
Can D.C. residents afford to continue living in their neighborhoods?

James Marshall March 4/19

Sheet 4

Look up values
Explore distribution

OPERATIONS



- Hover over a ward to explore its distribution of answers

▼ wouldn't go to Neighborhood School

- Drop-down menu to change map to other Agree/disagree survey questions

DISCUSSION

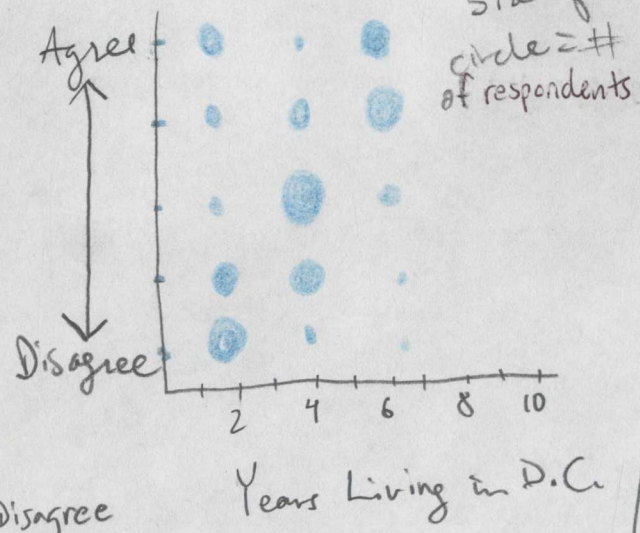
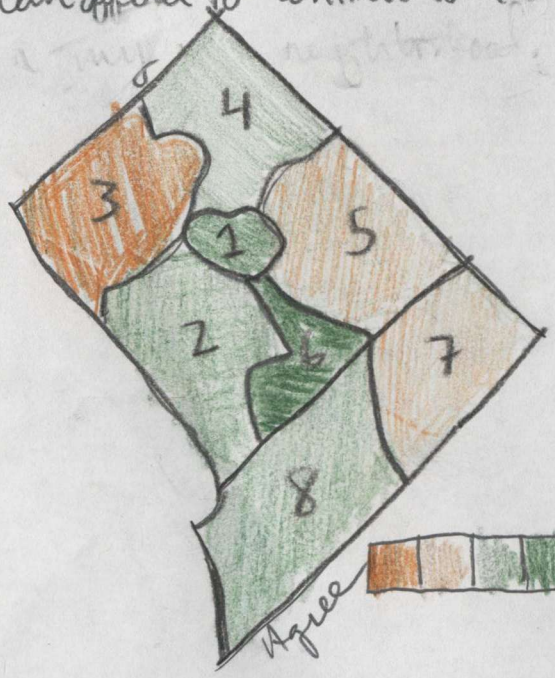
+ All of the Agree/disagree questions on same vis.

- Length in D.C. chart may be surplus to requirements

LAYOUT

▼ Affordability

I can afford to continue to live in my neighborhood.

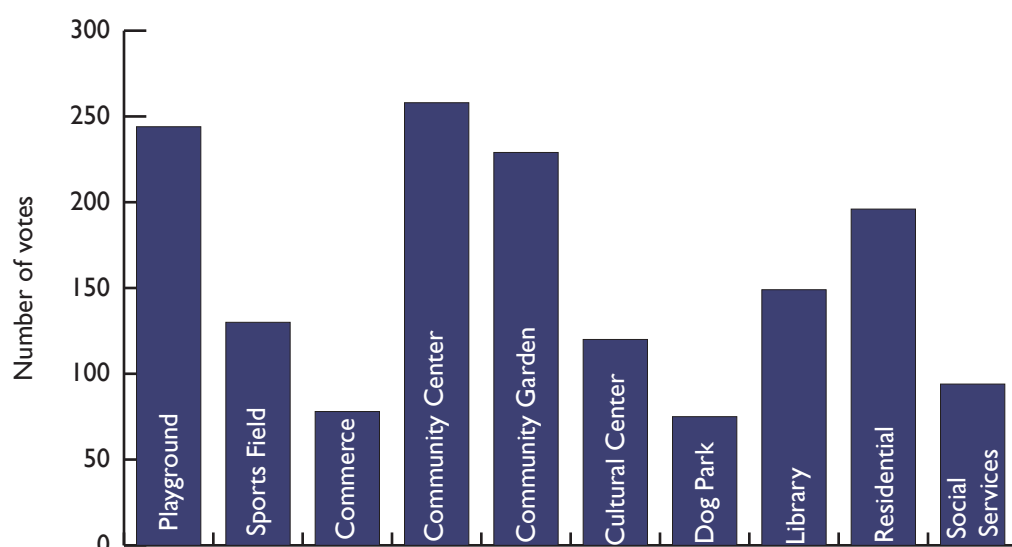
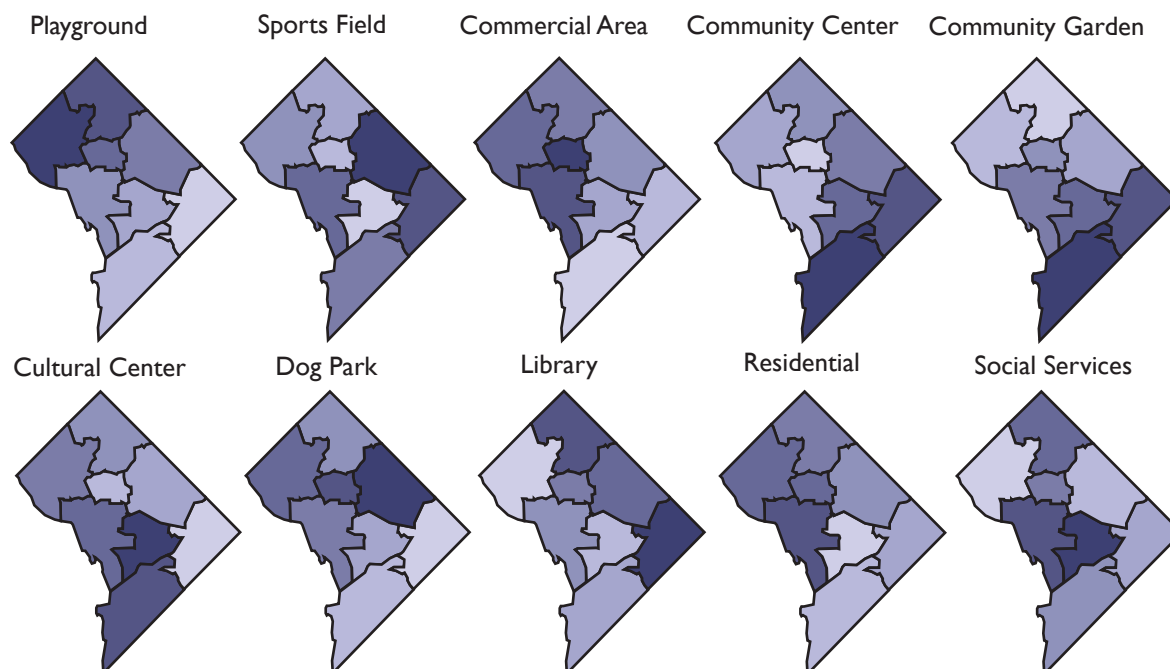


ZOOM/FOCUS



Ward 4 DISTRIBUTION	
Agree	: 11
Somewhat	: 25
Undecided	: 10
Somewhat	: 15
Disagree	: 7

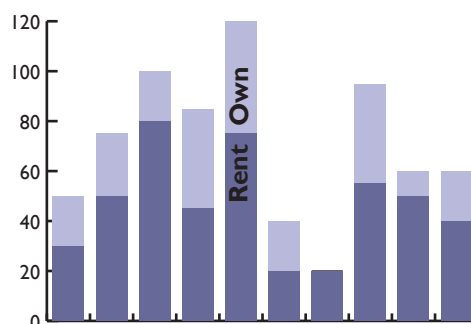
How D.C. residents want to develop vacant lots



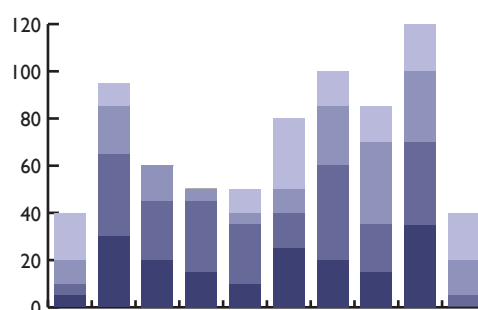
Zoom-Focus

- The chart just below the small-scale maps will show the distribution of all survey respondents' views on how to use vacant lots.
- Scrolling down, there will be charts showing residents' preferences broken down by race, income, and whether the residents rents or owns their home.
- Commentary and analysis by sociology and urban planning experts will accompany the visualizations and guide the reader.

Land use preference:
homeowners v. renters



Land use preference by income



Small Multiples: Land Use in D.C.

By: James Marshall
Jm0529a@american.edu
March 8, 2019

Tasks: Look up and compare values

Project Milestones:

- 3/22—Prepare data for upload
- 3/29—Visualize GeoJSON file
- 4/5—Complete interactivity
- 4/12—Complete bar charts
- 4/19—Report, write, edit
- 4/23—Present

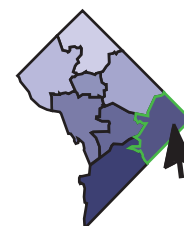
Resources:

- D.C. wards GeoJSON file via D.C. government open data (1)
- Webkid small multiples and interactivity tutorial (2)
- Mike Bostock stacked bar tutorial(3)

Operations

- When hovering over a ward in any of the maps, that ward will be highlighted in each map. The number of votes each land-use preference got in that ward will populate below the each map as seen below.

Community Garden



Ward 7: 26

Discussion

- + Allows the user to spot trends based on geography, income and homeownership.
- + Text accompanying charts will help contextualize the data for casual readers.
- Sample size is uneven across wards. 40 percent of respondents are Ward 8 residents.
- Interactivity is limited, but effective.

Sources:

- (1) <http://opendata.dc.gov/data-sets/ward-from-2012>
- (2) <https://blog.webkid.io/multiple-maps-d3/>
- (3) <https://bl.ocks.org/mbostock/1134768>