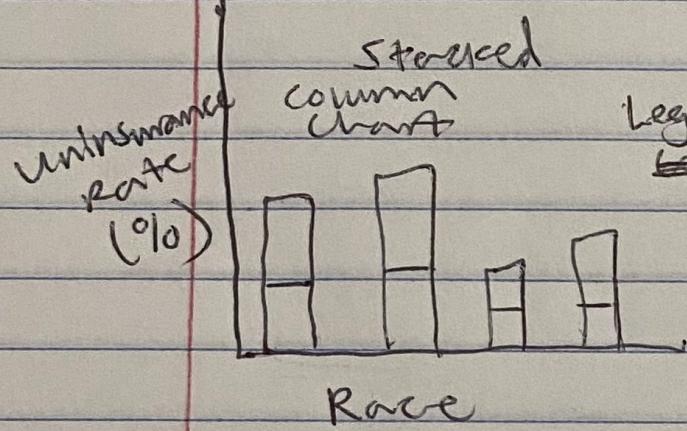


## **Contents**

1. Our original visualization napkin drawings
2. Our feedback received from another group in our cohort
3. Our visualizations modified in response to feedback

# Visualizations Napkin

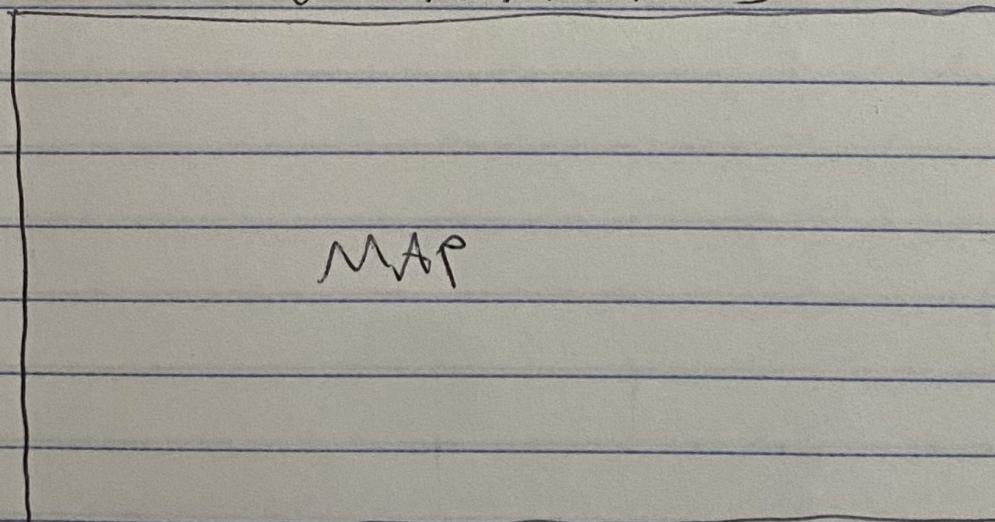
Uninsurance Rate  
by Race and <sup>Sex</sup> Gender



Uninsurance Rate  
by Age Group and Income

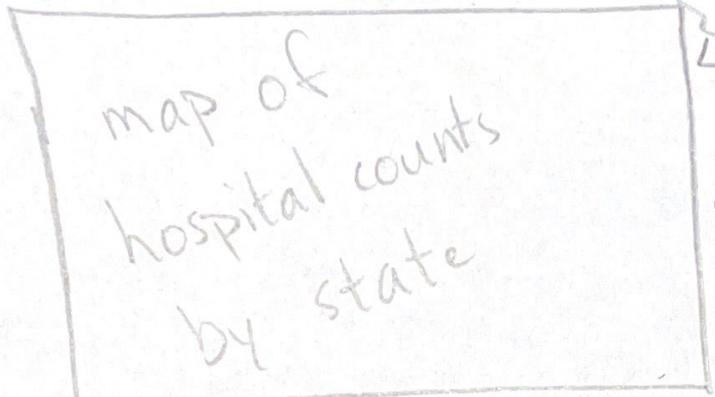
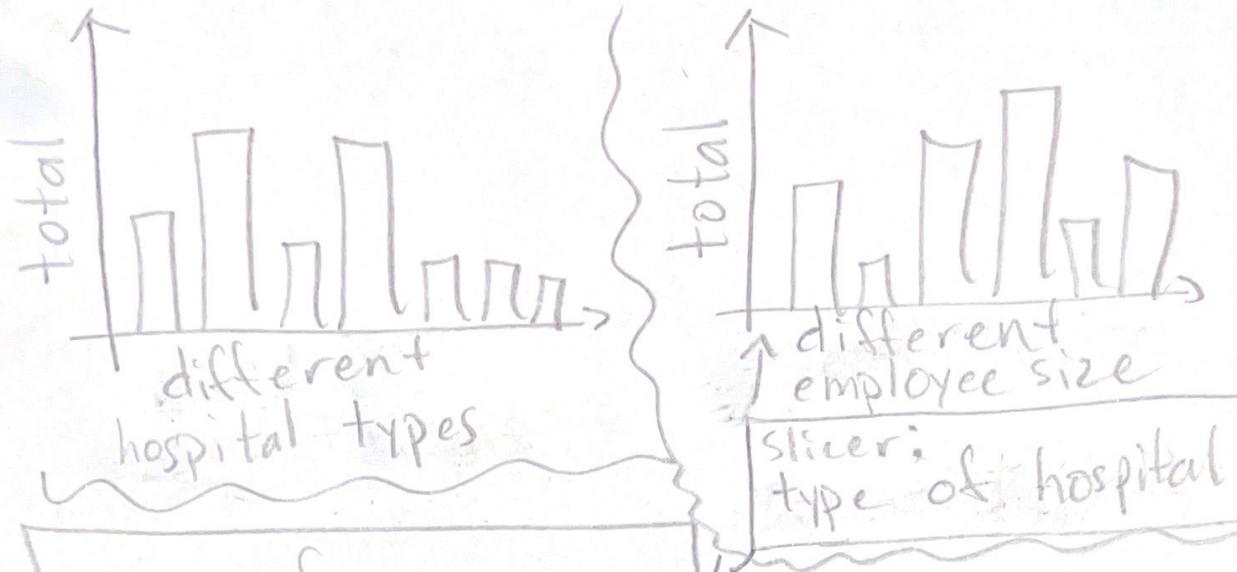


Map of Uninsurance Rates  
by State  
(all income levels)



Filter demographic  
variables to select  
("ALL")

# Hospital Count by State



map of  
hospital counts  
by state

all 50 states plus DC +  
Puerto Rico

## Types of hospitals

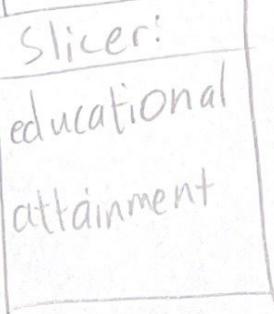
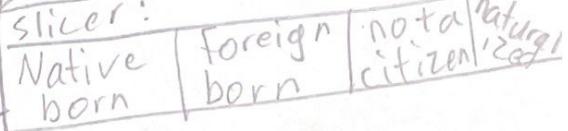
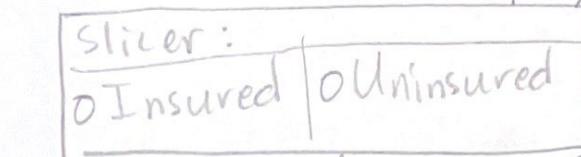
- C-corporations
- Partnerships
- Non-profit
- Government
- S-corporations
- Individual practices

- Total
- Other

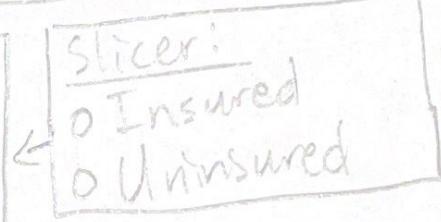
## Size of hospitals

- 5-9 employees
- 10-19
- 20-49
- 50-99
- 100-249
- 250-499
- 500-999
- 1,000 or more
- Less than 5
- Total

# Health Insurance Characteristics



map of 50 states & counties  
for total population

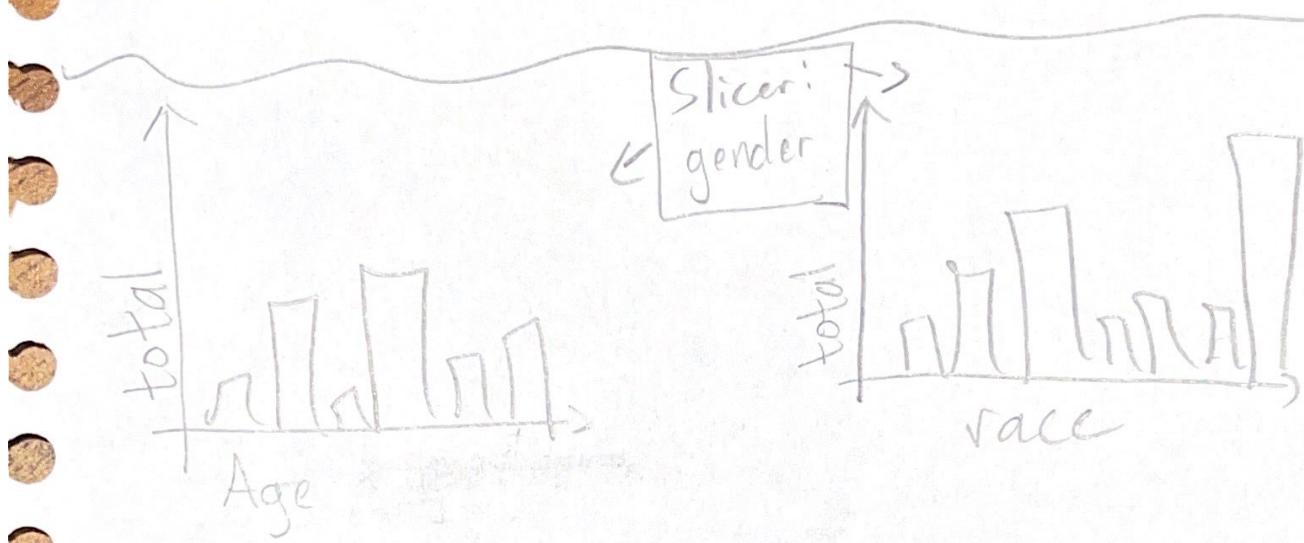


possibly more  
slicers for  
more  
categories

# Population Demographics

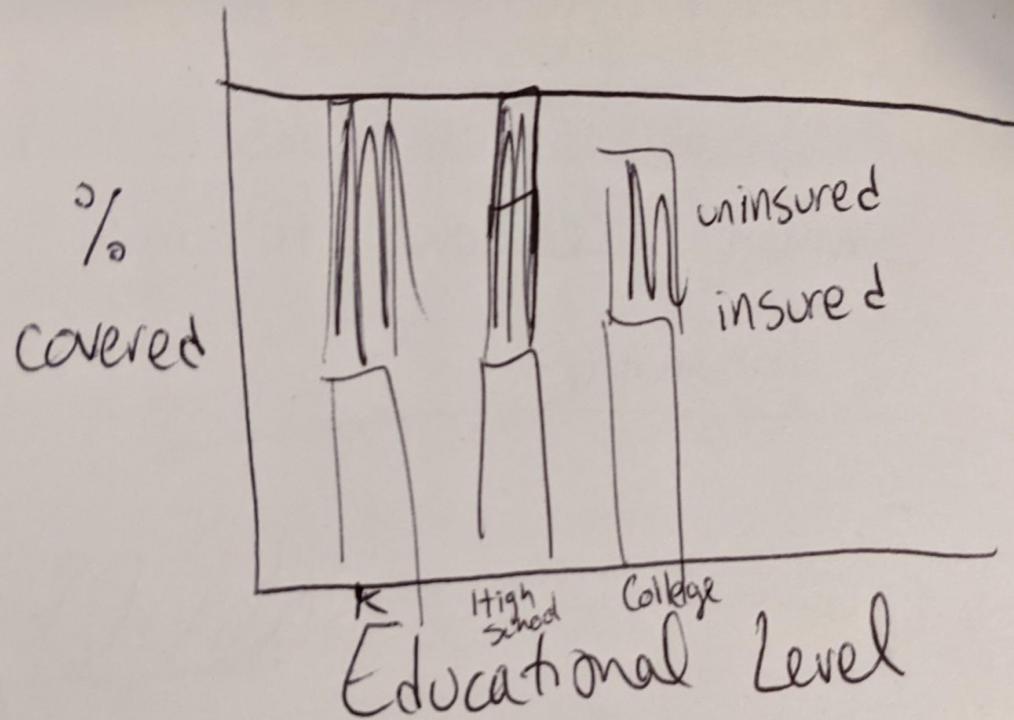
map of 50 states by total population

slicers for various categories



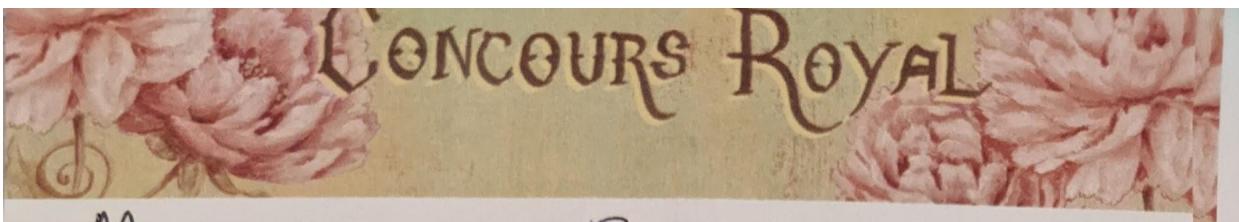
ratio of males to females

## Coverage by Education

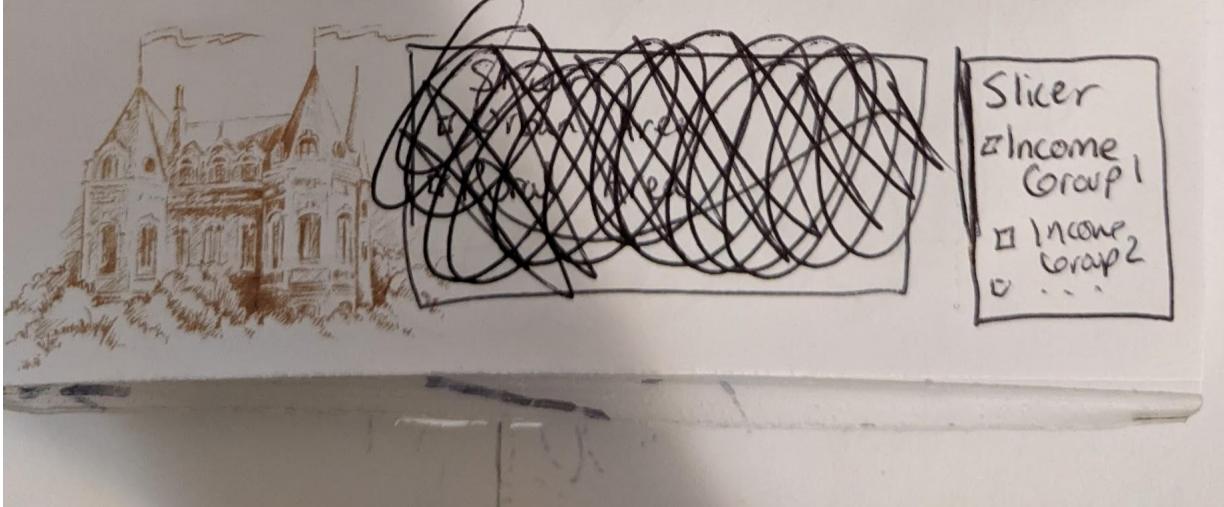
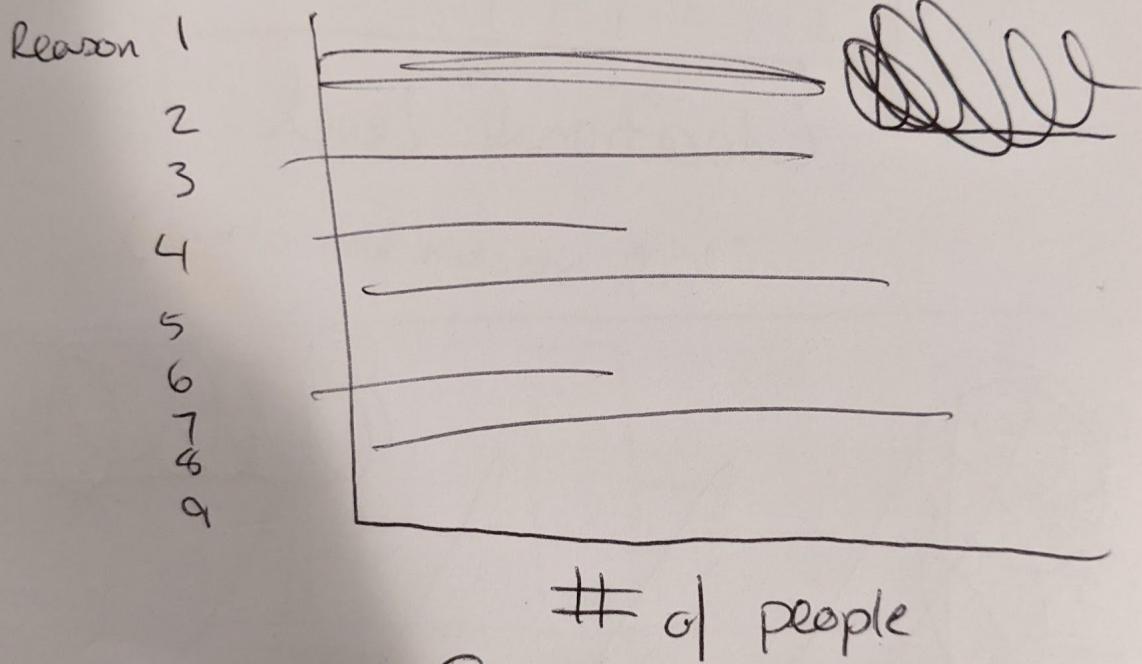


(100% stacked bar chart)

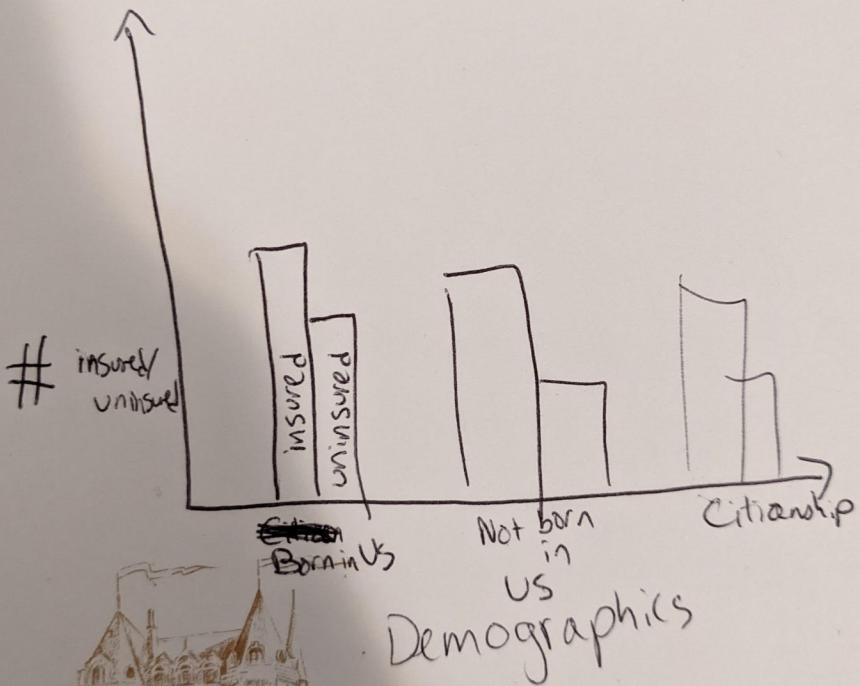
[Incomes/Pop]



## Most Common Reasons to Lack Insurance



## Coverage by Demographics



# Visualization Napkin Drawings

## Metro Profile of Health Insurance

### Twin Cities

- Minn - St. Paul - Bloom (from Metro)

ID  
Column

Responses  
to  
Health  
Questions  
by Metro  
Area

- Ramsey
- Hennepin
- Anoka
- Carver
- Dakota
- Rice
- Scott
- Sherburne
- Washington
- Wright



Slicer?

Public  
Insurance

Private  
Insurance

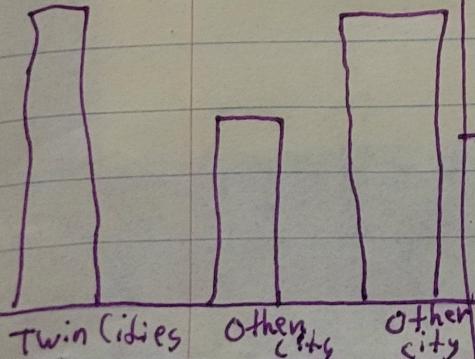
Slicer

Question 1

Question 3

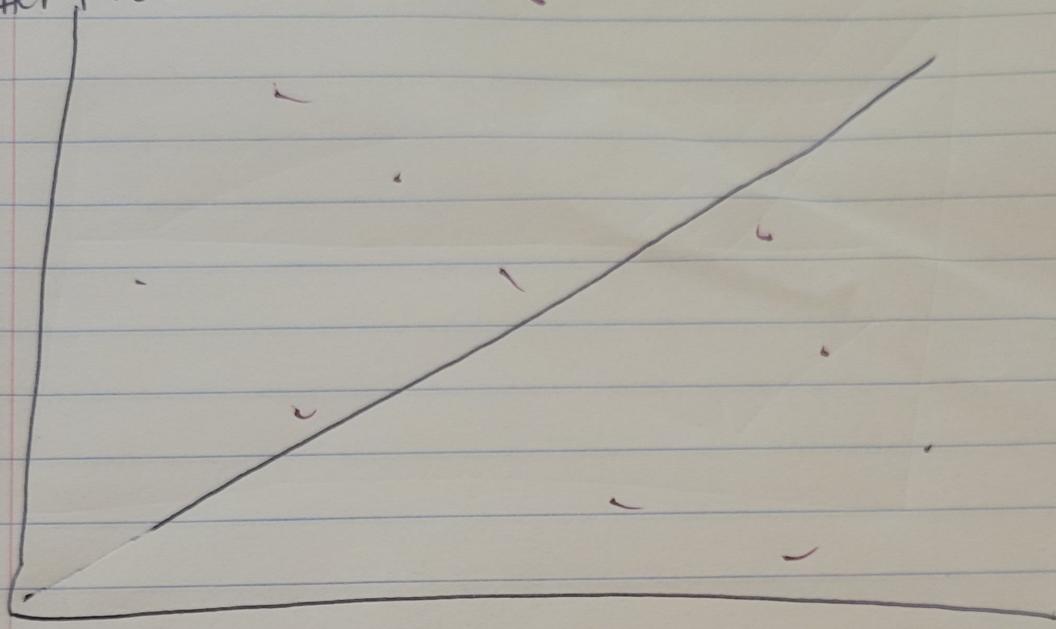
Question 2

Question 4

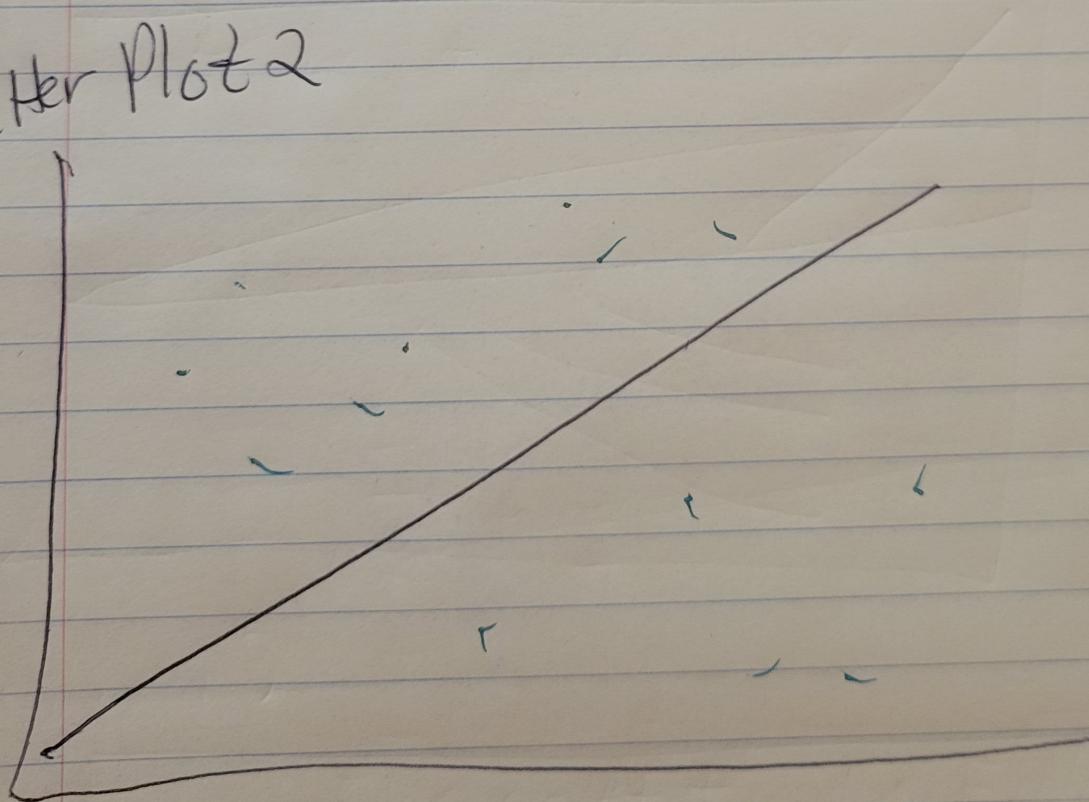


# Bayesian Ridge ML Visuals

Scatter Plot 1



Scatter Plot 2



⌚ Number of plots subject  
to change!

**Feedback from Group 6 on Visualization Napkin Drawings**

1. Consult coolors.co for color palette ideas
2. Consider using a % for the chart visualizations on page 7 of our Napkin Drawing PDF
3. Declare the features in use for our ML visualizations
4. Consolidate the number & placement of visualizations with similar themes or subject matter
5. Consider choosing only 1-2 breakouts for the BRFSS Coverage & Cost burden chart
  - a. Rename for clarity

**We have revised and reordered our visualization napkin drawings in response to Group 6's feedback. The post-feedback visualizations are included in the following pages:**

Color palette ideas:

Purple, gold, royal blue

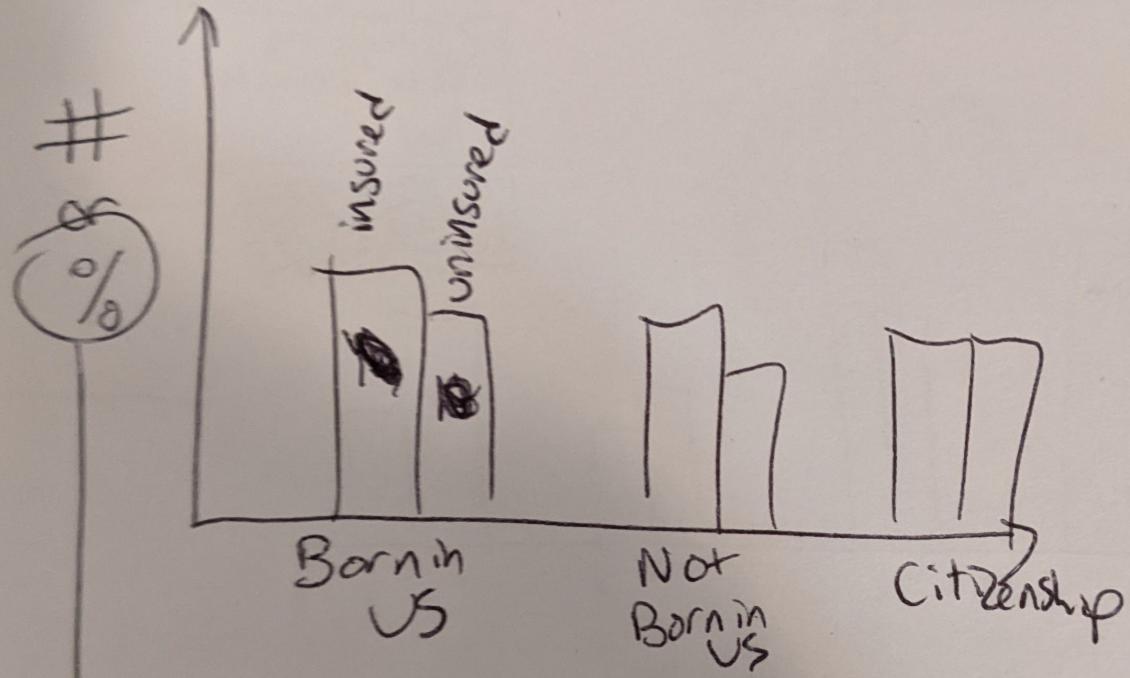
[Colors blue, violet color schemes](#)

[Colors blue, yellow color schemes](#)

[Colors turquoise, violet color schemes](#)

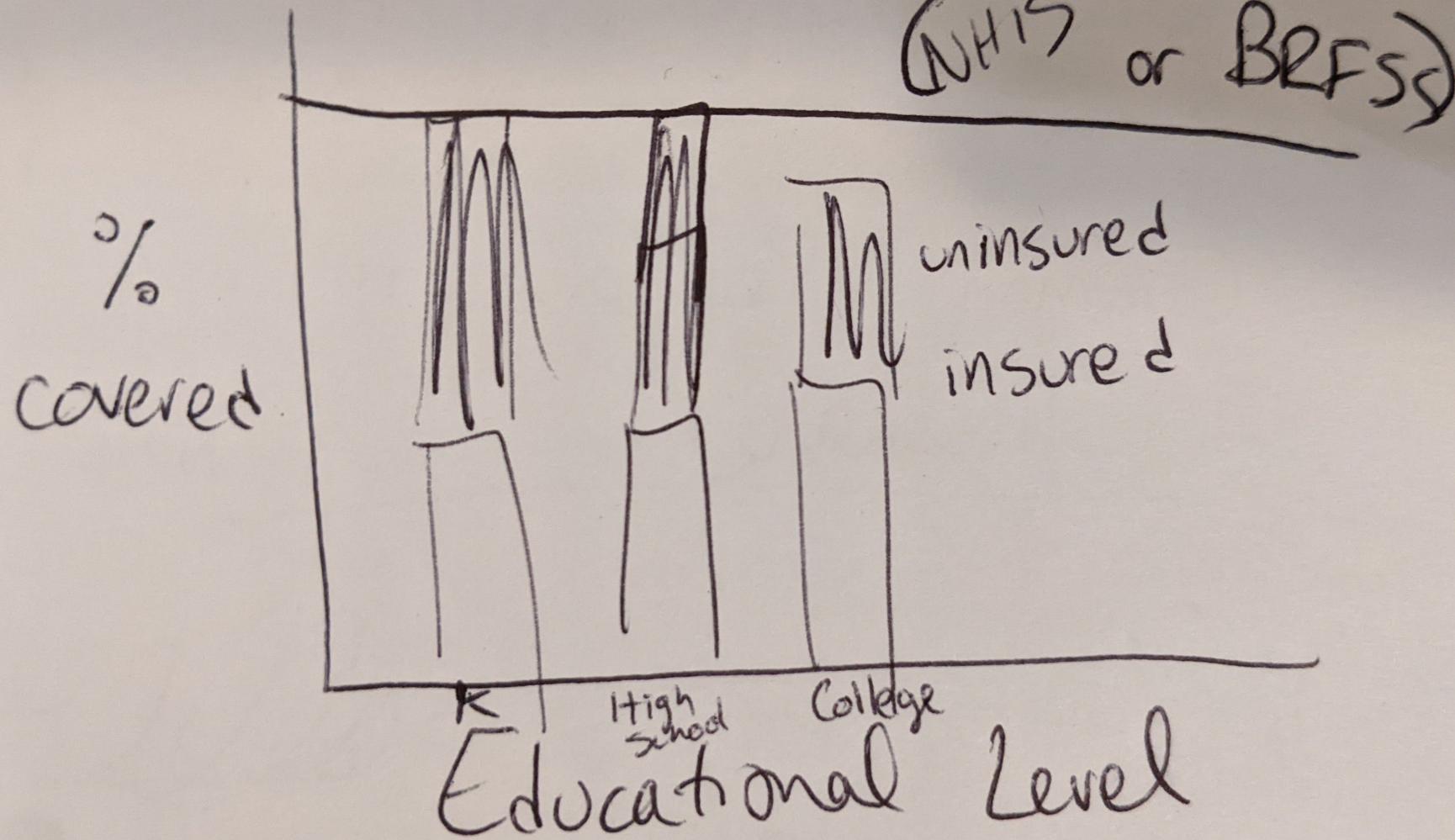
[Colors yellow, violet color schemes](#)

# Coverage by Citizenship / Born in US status



→ Will use % depending on the number, to make it easier to read.

Coverage by Education  
(NHIS or BRFSS)



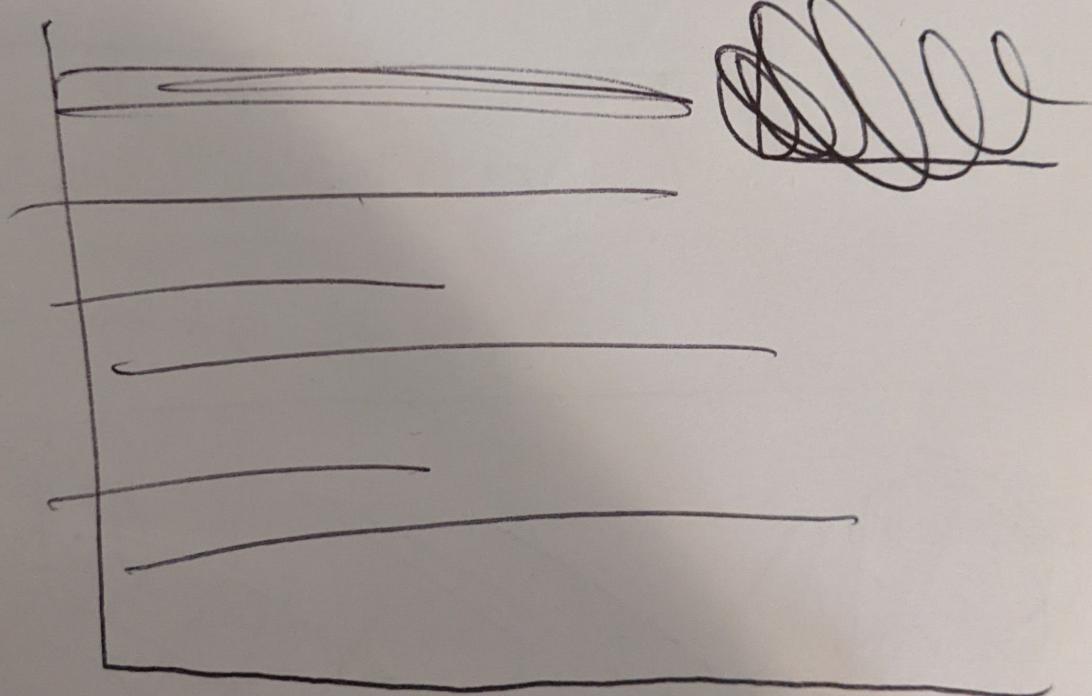
(100% stacked bar chart)

# CONCOURS ROYAL

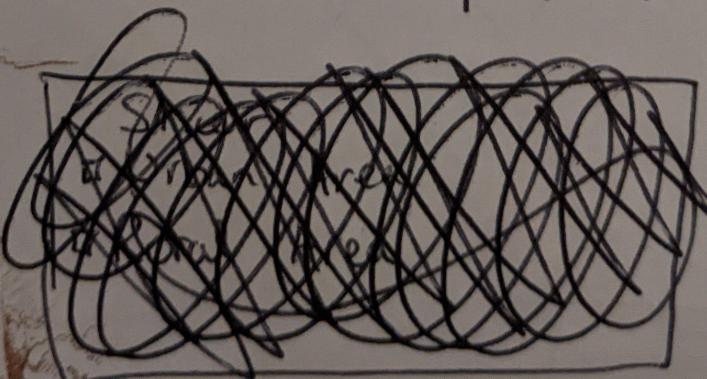
## Most Common Reasons to Lack Insurance

NHIS

Reason 1  
2  
3  
4  
5  
6  
7  
8  
9

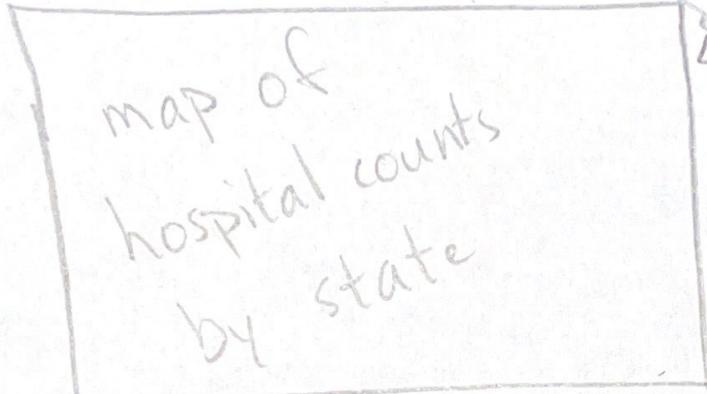
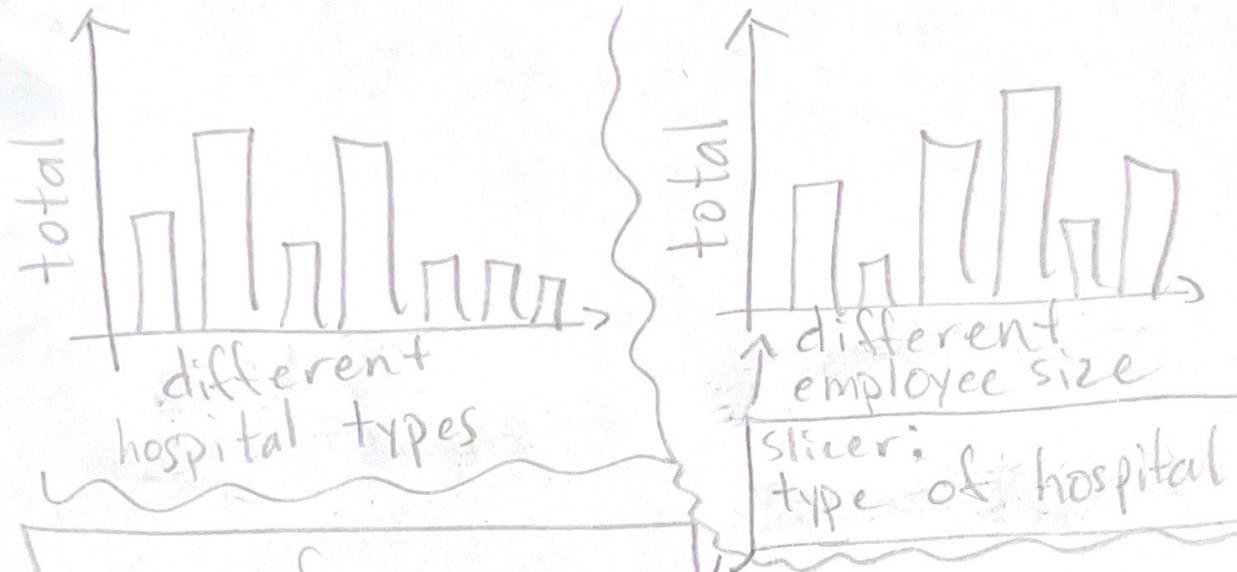


# of people



Slicer  
 Income Group 1  
 Income Group 2  
 ...

# Hospital Count by State



all 50 states plus DC +  
Puerto Rico

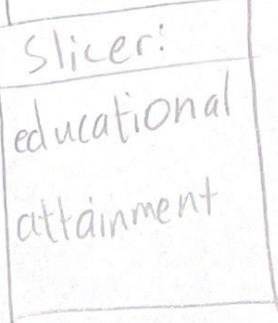
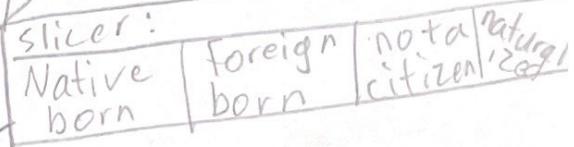
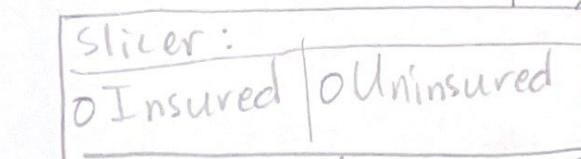
## Types of hospitals

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  - Government
  - S-corporations
  - Individual practices
- Total
- Other

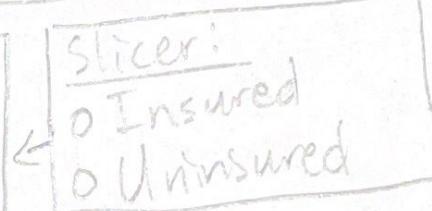
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  - 250-499
  - 500-999
  - 1,000 or more
- Less than 5
- Total

# Health Insurance Characteristics



map of 50 states & counties  
for total population

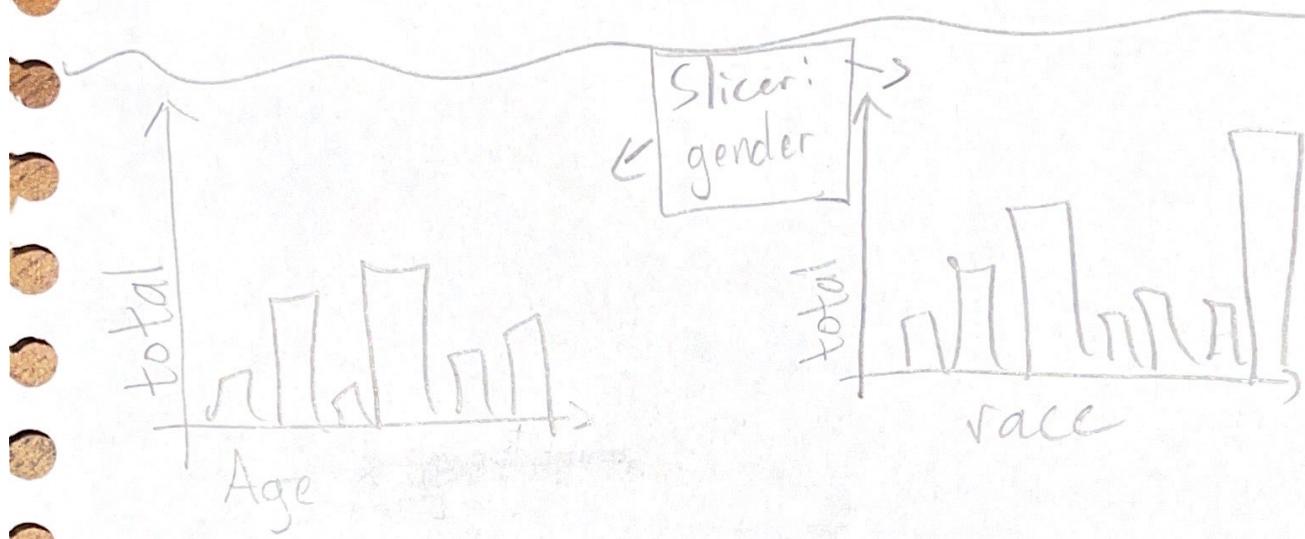


possibly more  
slicers for  
more  
categories

# Population Demographics

map of 50 states by total population

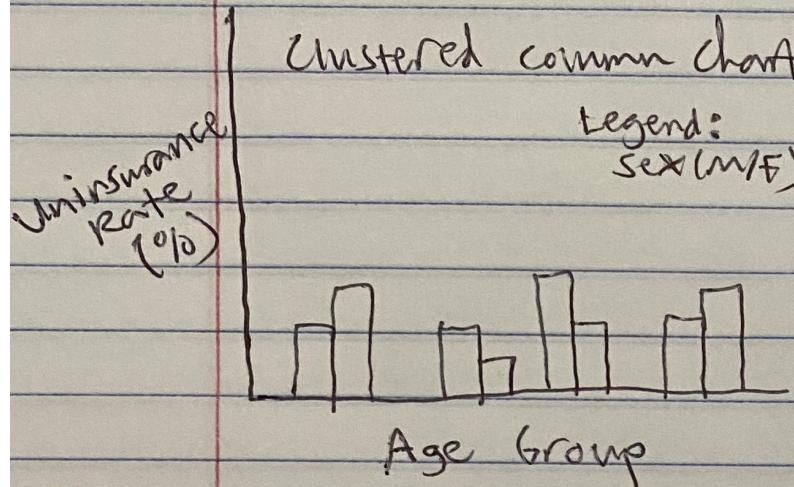
slicers for various categories



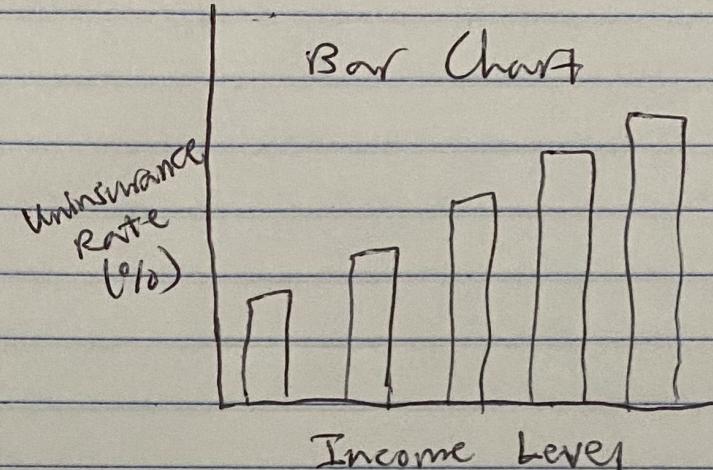
ratio of males to females

# Visualizations Napkin

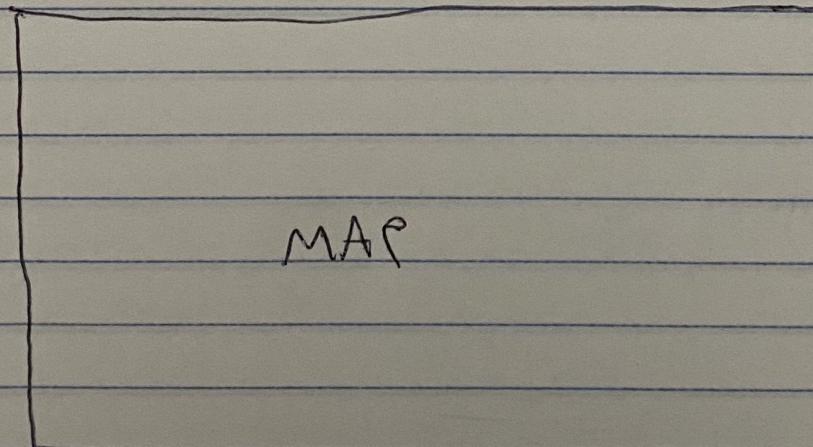
Uninsurance Rates  
by Age Group and Sex



Uninsurance Rates  
by Income Level

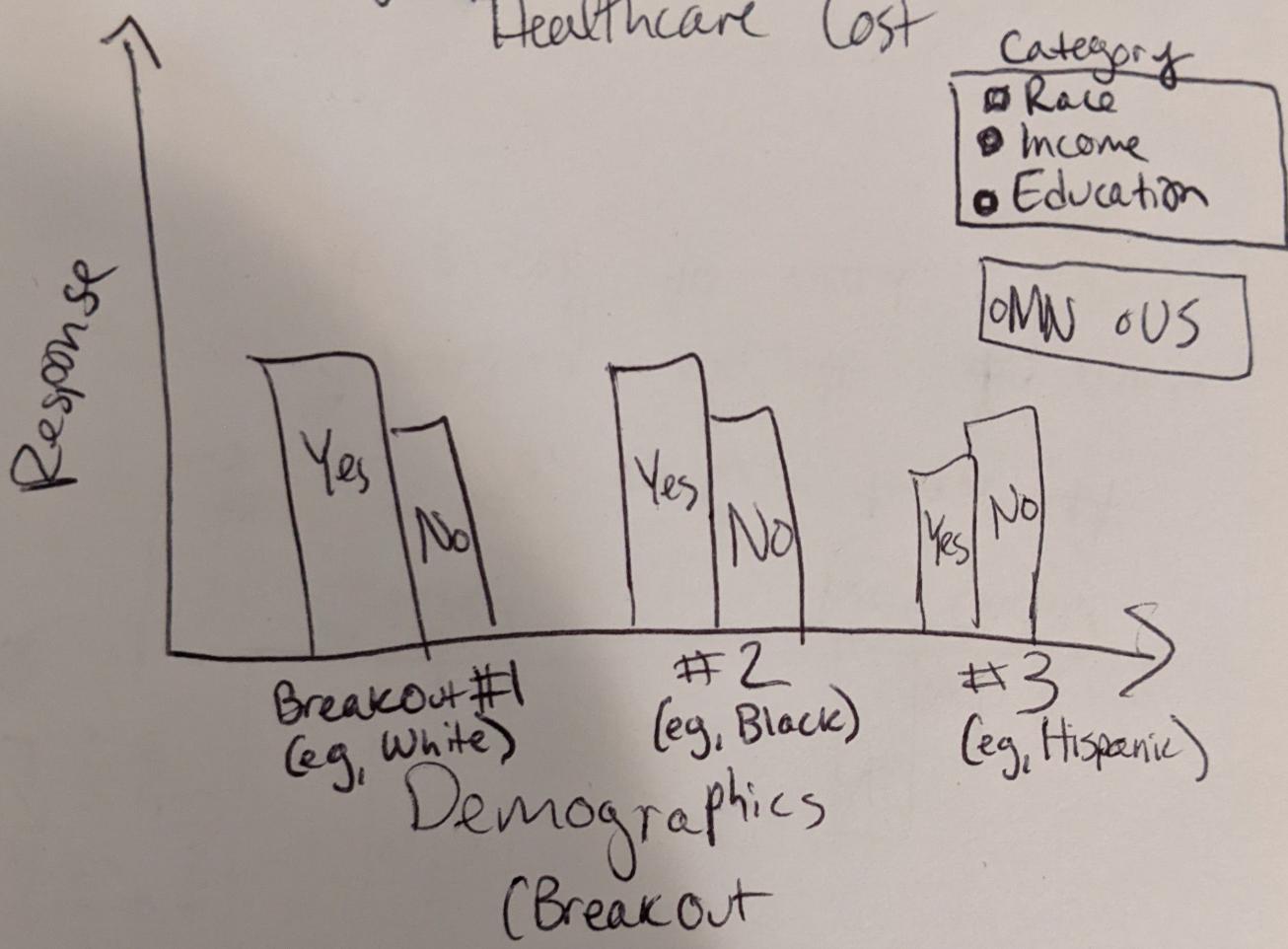


Map of Uninsurance Rates  
by State (%)  
(all income levels)



Filter demographic  
variables to 'all'

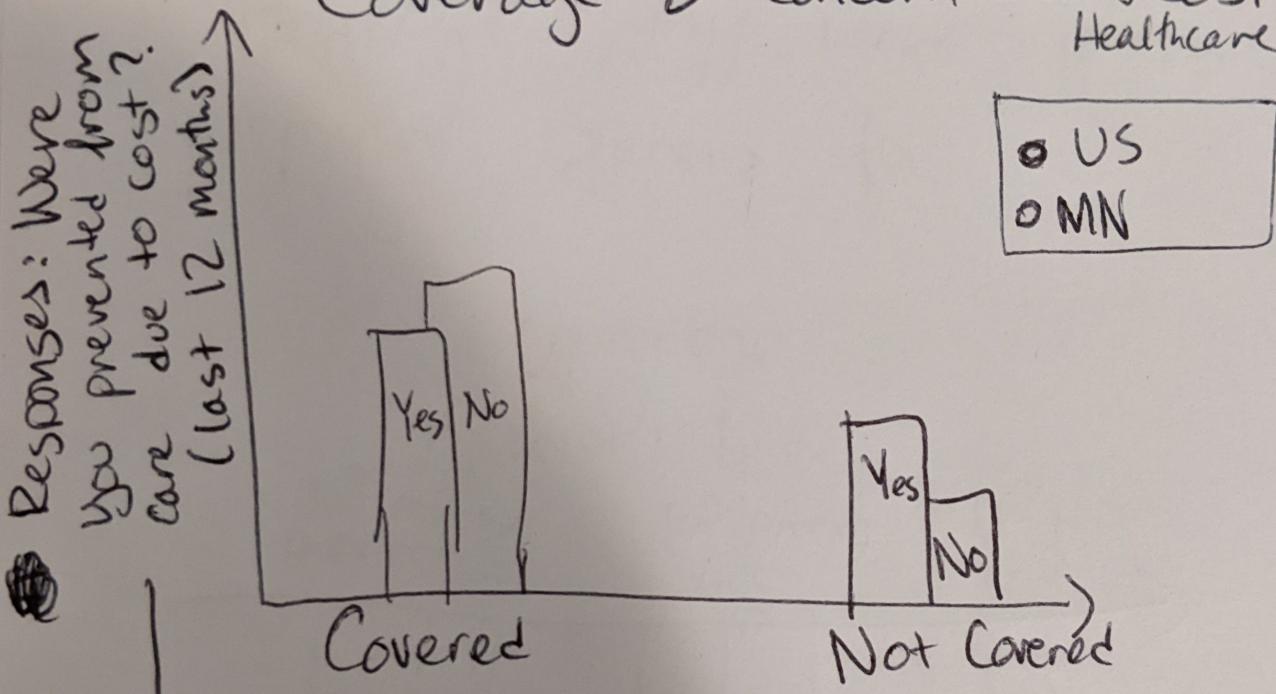
# Demographics by Concern over Healthcare Cost



Including Slicers for Category will make it easier to read the information on the visual

# Concours Royal

Coverage & Concern Over Cost  
Healthcare



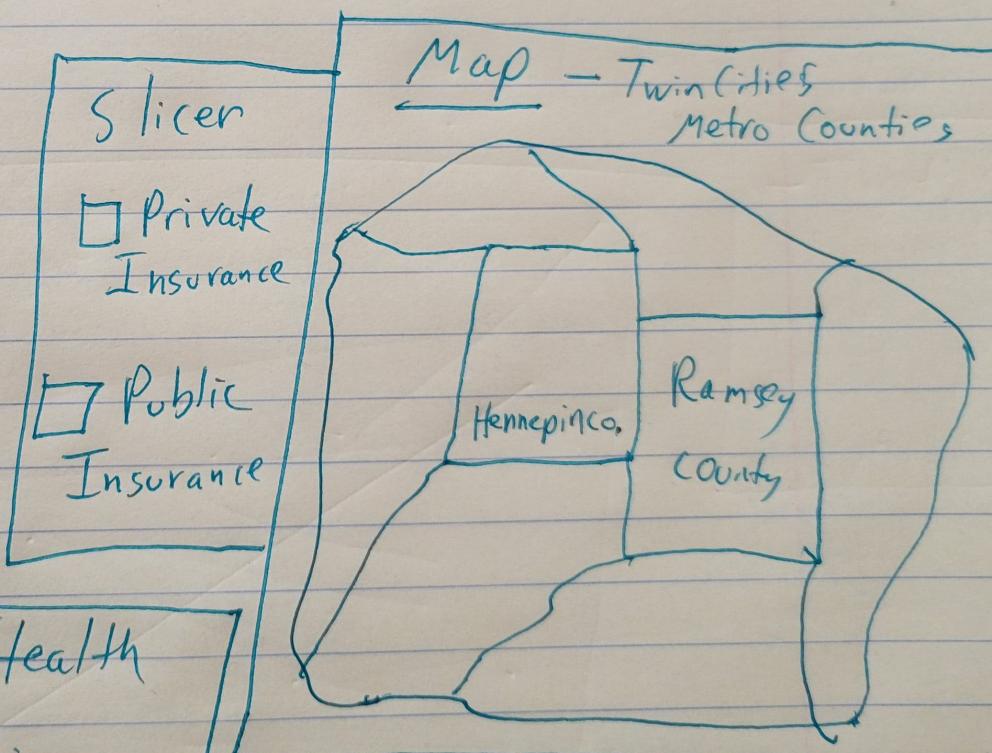
Will use % rather than #

depending on #, to make it easier to read.

# Minnesota Section

County + City level  
Visualizations

Twin Cities Metro Area



Responses to Health

Coverage Questions

by Metro Area, MN

Metro 1

Metro 2

Metro 3

Slicer

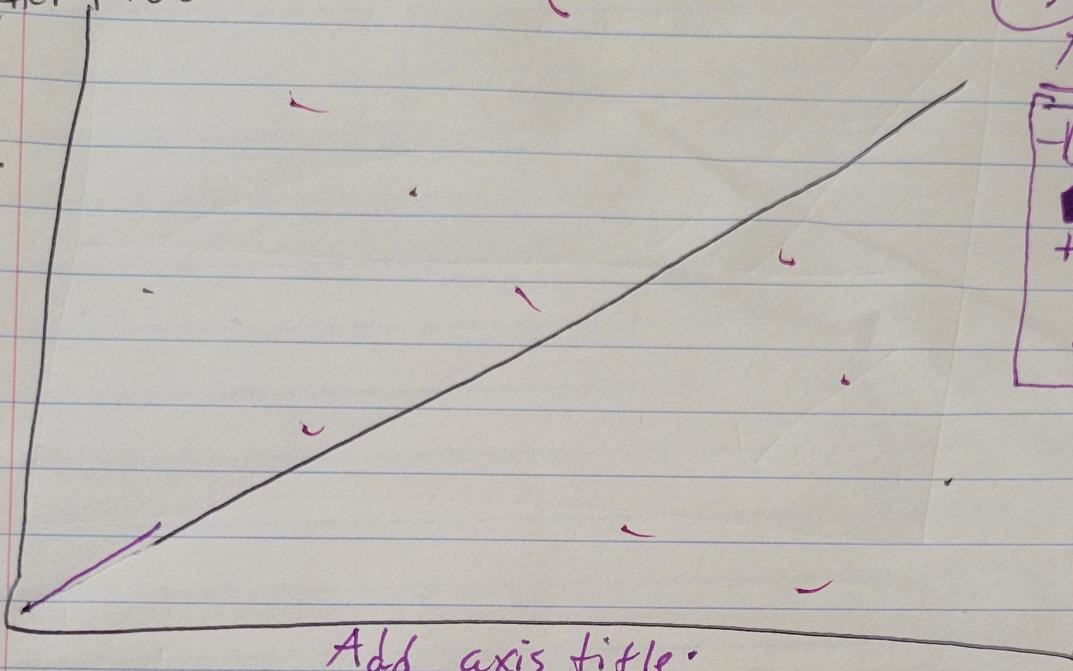
- Question 1
- Question 2

- Question 3
- Question 4

# Bayesian Ridge ML Visuals

Scatter plot 1

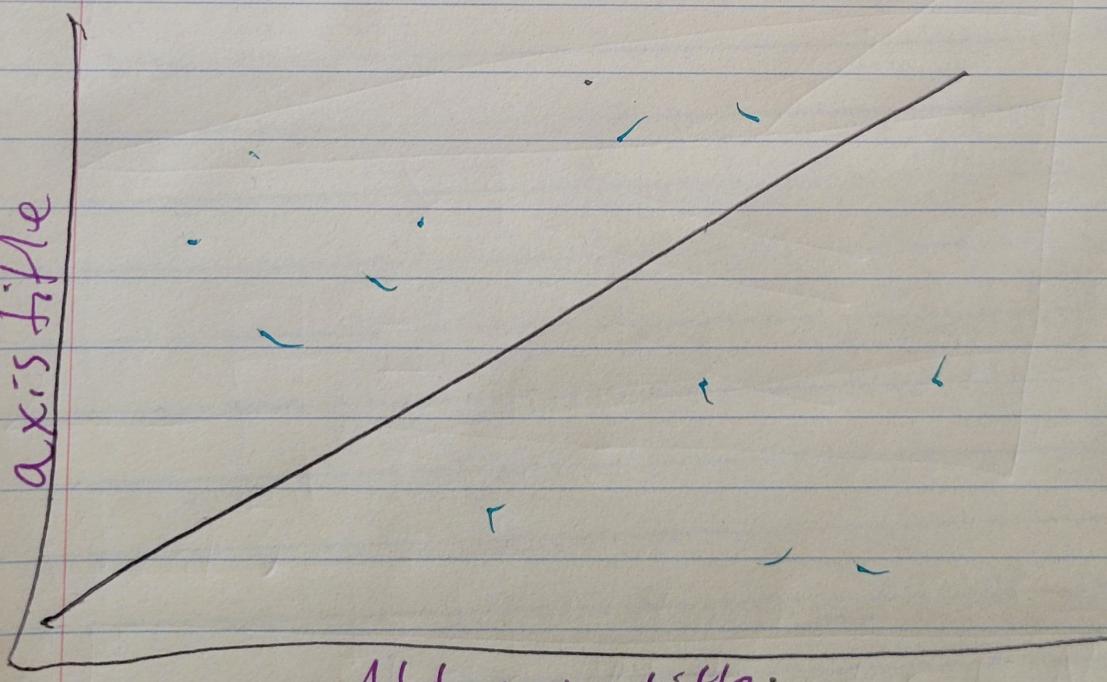
Add axis title:



Add axis title:

Scatter Plot 2

Add axis title:



Add axis title:

③ Feedback

- Decline  
    ■ features  
    that  
    are in  
    chart

Features

- Target:  
    Uninsured  
    rate
- Based off  
    demographic info

★ Number of plots subject  
to change!