Tab 1 -> Comparative Search by location and by hospital name and select a DRG - table of results + bar chart
-justin
Audience: Patients looking to compare the results of two hospitals

Side 1   **Side 2**

- location ▼   - location ▼
    - *state*   - *state*
    - *city*   - *city*
    - *zipcode*   - *zipcode*

- hospital ▼   - hospital ▼

- DRG ▼   - DRG ▼

Option   **Option**
    - Travel Expenses   - Travel Expenses
    - User inputs a value   - User inputs a value

   BAR CHART

```
I
I               i-i
I               i i
I      i-i      i i
I__i_i__i_i_____
       H1    H2
       Average Cost Charges
```
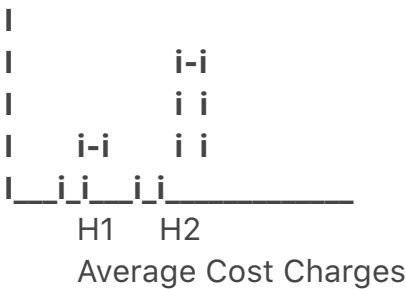
Comparative bar chart
- **Y axis** - cost
- **X axis** - average covered charges , average total payments ,average medicare payments

          TABLE

Tab 2 -> Chrolopleth plot Map for showing statistics for each State for each DRG with a table of results below
-Steven

Audience:
- People in the America or in the state who may want to shift to a county with better cover costs
- Government of America to monitor if a particular state is having too many discharges for a particular DRG but there are not many hospitals for that DRG

- Slider - decide how total discharges
- Select a DRG
- Hover over a state to get information :
    - *total hospitals in that state serving that DRG*
    - *total discharges , average cover charges , average total payments , average medicare payments*
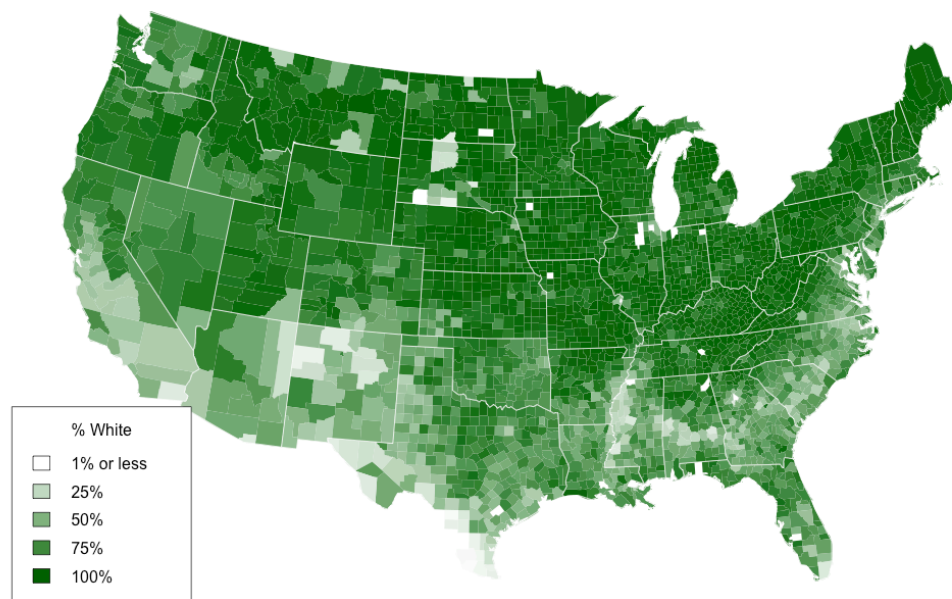

Tab 3 -> Select a city and get information about the hospitals in that city for a particular DRG -Muse
Audience: Patient looking for the hospital which suites him best in a city of his choice

Select a DRG -> State - > City -> get a list of hospitals in that city and information for each hospital in that city

-> Select cost (average covered charges, average total payments and medicare) to manipulate

-> Filter down results using a slider/checkbox to manipulate the cost

-> Option : ability to add extra payments such as travel, etc

BAR CHART

```
I
I      i              i
I       i i        i i
I     i i i        i i
I__i i_i___i_i_____
        H1     H2
```
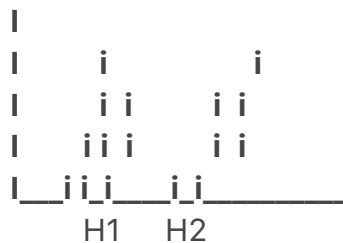
Comparative bar chart
- **Y axis** - cost
- **X axis** - hospitals

TABLE

Tab 4 -> List of Hospitals for a particular set range of costs -Zoshua

Audience:
  – Patient to decide if the area he is shifting has a hospital which is charging an amount of money he can pay
  – Government to notice if a particular hospital maybe charging a bit too much in comparison to other hospitals
  – Curate the dataset such that we get the average medicare ,total payment and covered charges for each hospital

  Slider 1: Average Medicare
  Slider 2: Total Payment
  Slider 3: Covered Charges

    - option: number of family member
  - output total cost

Tab 5 -> Scatter Plot Map and Chloropleth Map of Hospitals in the Country for a particular DRG

<u>**-Steven**</u>

Audience:
    - Give a set of search results for a patient search for hospitals for a particular DRG
    - Government to notice which areas do not have enough hospitals for a particular DRG

  – **Select a DRG**
  – **Slider for costs**

Accordingly Results produced on a plot map of America
Hover for further information

<u>**Tab 6 -> Chloropleth Map to show approx fatality rate for the states/counties of America for a particular DRG-Zoshua**</u>

Audience:
    - Government to notice which the severity of a particular DRG in each state and to see if there are any standout results
  – make data frame of states and total discharges for each state for a particular DRG
  – create a drop down option for all DRGs (which is the default)
  – **get the population data set for the year 2011**
  – **fatality rate = total discharges/total population for county/state**

    <u>**CHLOROPLETH MAP**</u>

<u>**Tab 7 - If you are old get to see the cost for top 10 DRGs for the hospital of your choice - Muse**</u>

<u>**Tab 8-> About Us and other info**</u>