WEEK 4: GROUP RSHINY APPLICATION ASSIGNMENT

ALY6070: Communication and Visualization for Data Analytics

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Summary Tab Panel

Where is the area having a lot of trees?
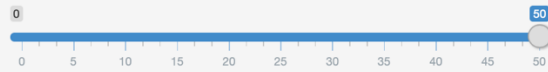
Which cities have more trees?

Bronx ▾

Does the tree is ON or OFF the Curb?
☐ On Curb
☐ Off the Curb

status of trees
☐ Alive
☐ Dead
☐ Stump

Tree diameter

0 ———————————————————————— 50

0   5   10   15   20   25   30   35   40   45   50

| Summary | Status graph | Health Graph | Top 5 species | Tree Map | Number of trees |

There were 683788 trees in 5 boroughs analyzed. This Dashboard contains 4 graphs and 1 table. Status graph shows us the amount Alive, Dead and Stump trees in 5 boroughs Health graph plots the tree health in each borough Top 5 species graph is a barplot and identifies the top 5 species in each borough Tree Map shows the density of trees by locating each tree on the map Number of trees tab includes a table with the amount of trees filtered by status and borough

Where is the area having a lot of trees?

Which cities have more trees?

Brooklyn ▾

Does the tree is ON or OFF the Curb?
- ☑ On Curb
- ☐ Off the Curb

status of trees
- ☑ Alive
- ☑ Dead
- ☑ Stump

Tree diameter

0   28   50
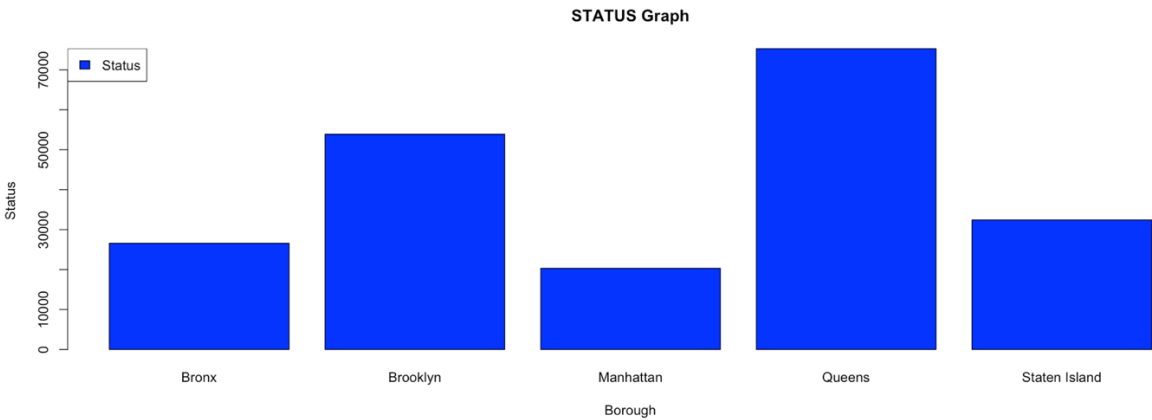
0   5   10   15   20   25   30   35   40   45   50

Summary   **Status graph**   Health Graph   Top 5 species   Tree Map   Number of trees

STATUS Graph

Where is the area having a lot of trees?

Which cities have more trees?

Bronx ▾

Does the tree is ON or OFF the Curb?
☐ On Curb
☑ Off the Curb

status of trees
☐ Alive
☑ Dead
☑ Stump

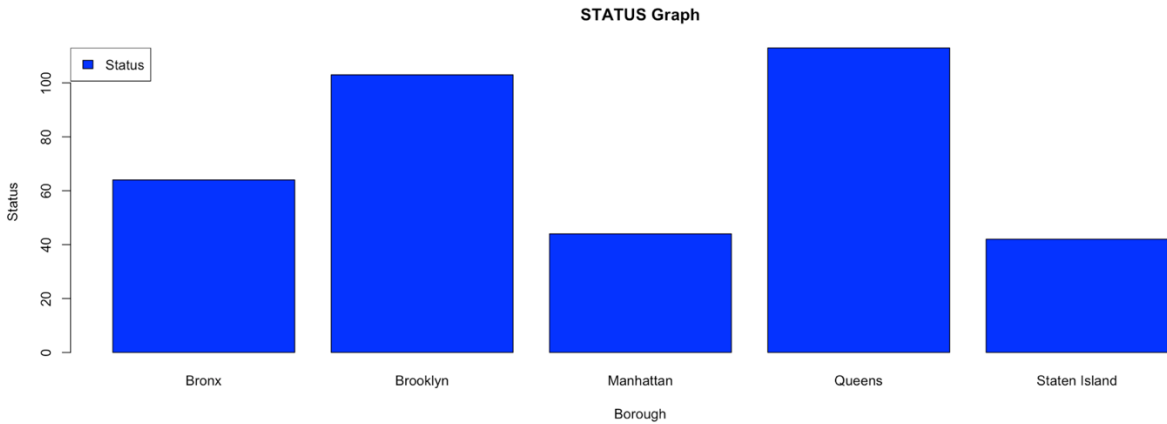**Tree diameter**

0 | 4 | 50

0 5 10 15 20 25 30 35 40 45 50

| Summary | Status graph | Health Graph | Top 5 species | Tree Map | Number of trees |

STATUS Graph

Health graph
Before

Where is the area having a lot of trees?

Which cities have more trees?

Manhattan ▾

Does the tree is ON or OFF the Curb?
- ☑ On Curb
- ☐ Off the Curb

status of trees
- ☑ Alive
- ☑ Dead
- ☑ Stump

Tree diameter

0 ————————————————————— 50

0   5   10   15   20   25   30   35   40   45   50

Summary   Status graph   **Health Graph**   Top 5 species   Tree Map   Number of trees

HEALTH Graph

Health Status / Health Type — bar chart with categories: (blank), Fair, Good, Poor; legend: ■ Borough

Health graph
After

Where is the area having a lot of trees?

Which cities have more trees?

Staten Island ▾

Does the tree is ON or OFF the Curb?
☐ On Curb
☑ Off the Curb

status of trees
☑ Alive
☐ Dead
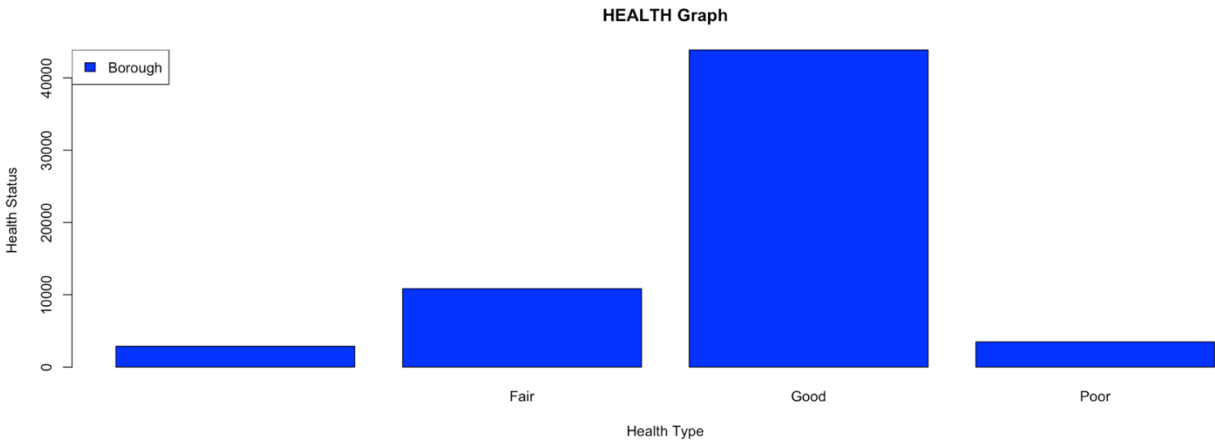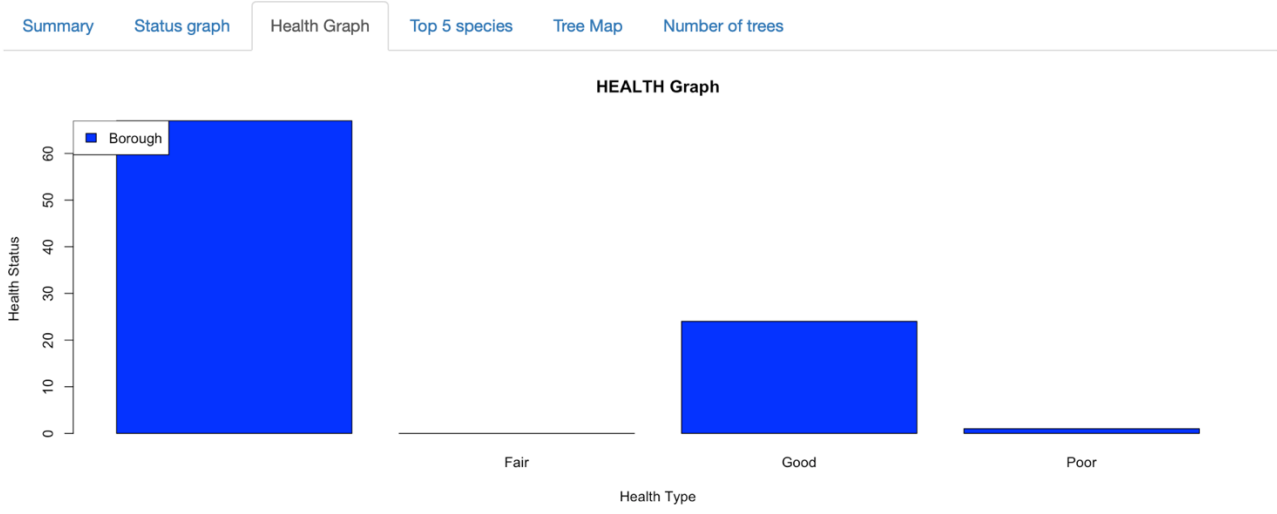☑ Stump

Tree diameter

1   50

0   5   10   15   20   25   30   35   40   45   50

Summary   Status graph   Health Graph   Top 5 species   Tree Map   Number of trees
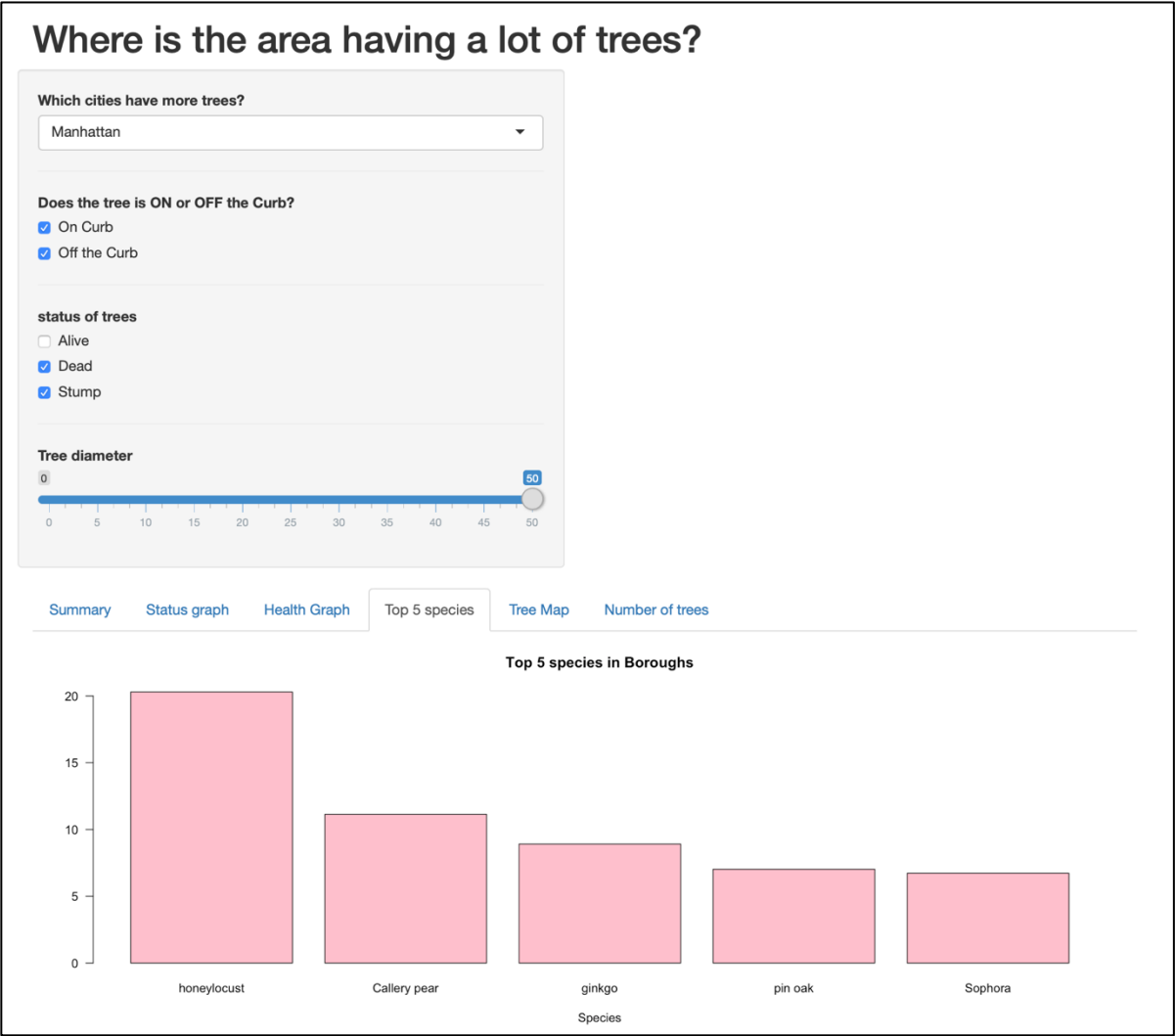
HEALTH Graph

Top 5 species bar plot
Before

Top 5 species bar plot
After

Where is the area having a lot of trees?

Which cities have more trees?

Brooklyn ▾

Does the tree is ON or OFF the Curb?
☐ On Curb
☑ Off the Curb

status of trees
☑ Alive
☐ Dead
☐ Stump

Tree diameter

0
50

0	5	10	15	20	25	30	35	40	45	50

Summary	Status graph	Health Graph	Top 5 species	Tree Map	Number of trees

Tree density in Boroughs

Tree Map
After

Where is the area having a lot of trees?

Which cities have more trees?

Queens ▾

Does the tree is ON or OFF the Curb?
☑ On Curb
☐ Off the Curb

status of trees
☑ Alive
☐ Dead
☐ Stump

Tree diameter

| 0 | | | | 20 | | | | | 50 |

| 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |

Summary   Status graph   Health Graph   Top 5 species   **Tree Map**   Number of trees

Tree density in Boroughs

Frequency table of trees by status and borough
Before

Where is the area having a lot of trees?

Which cities have more trees?

Staten Island   ▾

Does the tree is ON or OFF the Curb?
☑ On Curb
☐ Off the Curb

status of trees
☑ Alive
☑ Dead
☐ Stump

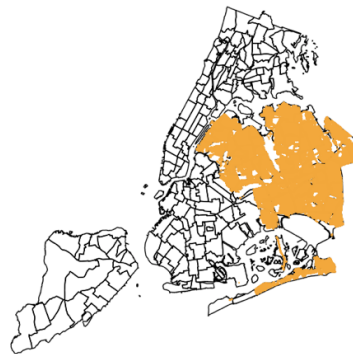**Tree diameter**
0   50

0   5   10   15   20   25   30   35   40   45   50

Summary	Status graph	Health Graph	Top 5 species	Tree Map	Number of trees

Var1	Freq
Alive	97548
Dead	1807
Stump	1941

Frequency table of trees by status and borough
After

Where is the area having a lot of trees?

Which cities have more trees?

Brooklyn ▾

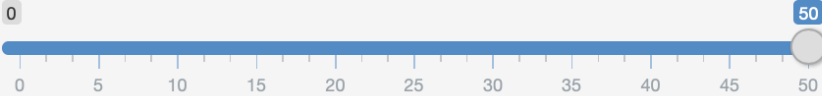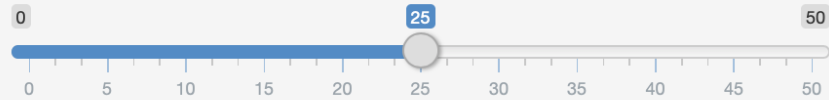**Does the tree is ON or OFF the Curb?**

☐ On Curb
☑ Off the Curb

status of trees

☑ Alive
☑ Dead
☐ Stump

Tree diameter

| 0 | | | | | 25 | | | | | 50 |

| 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |

| Summary | Status graph | Health Graph | Top 5 species | Tree Map | Number of trees |

Var1	Freq
Alive	5698
Dead	118
Stump	135