



## **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

05101520253035404550

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

# Status Graph Before

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

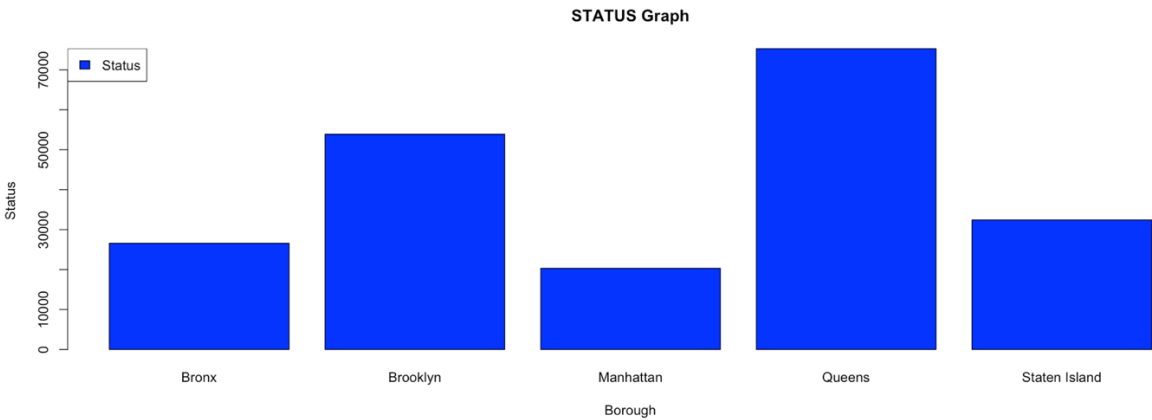
0

28

50

05101520253035404550

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



# Status Graph After

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

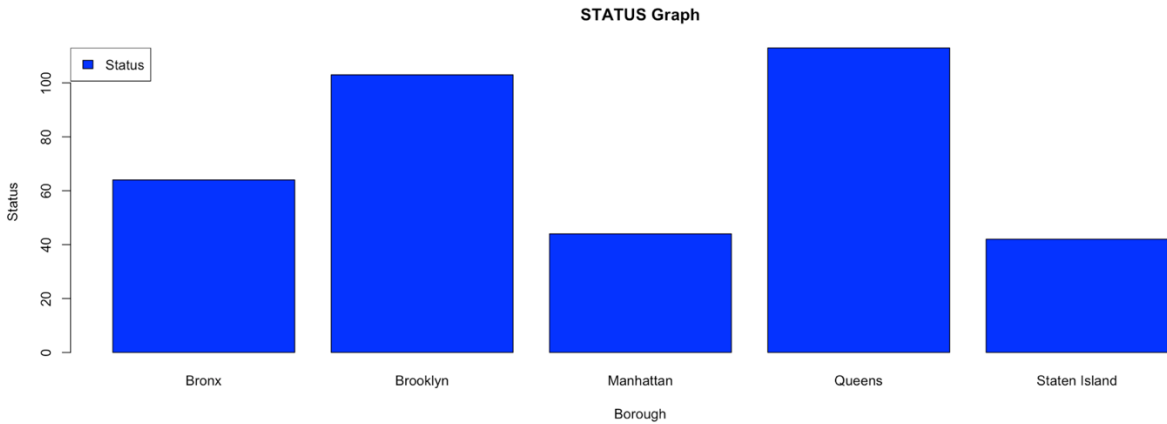
35

40

45

50

- Summary
- Status graph
- Health Graph
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- Tree Map
- Number of trees



# 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

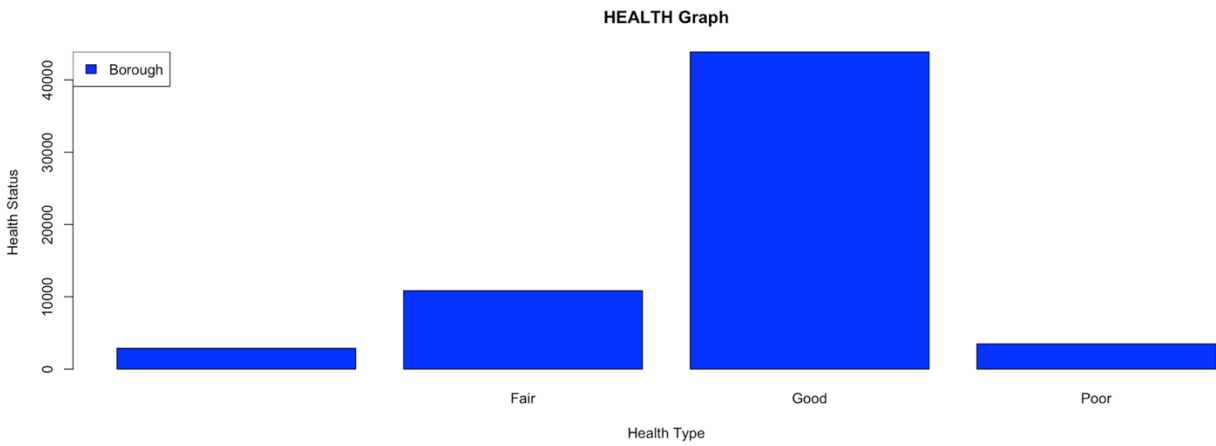
Tree diameter

0

50

05101520253035404550

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



# 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

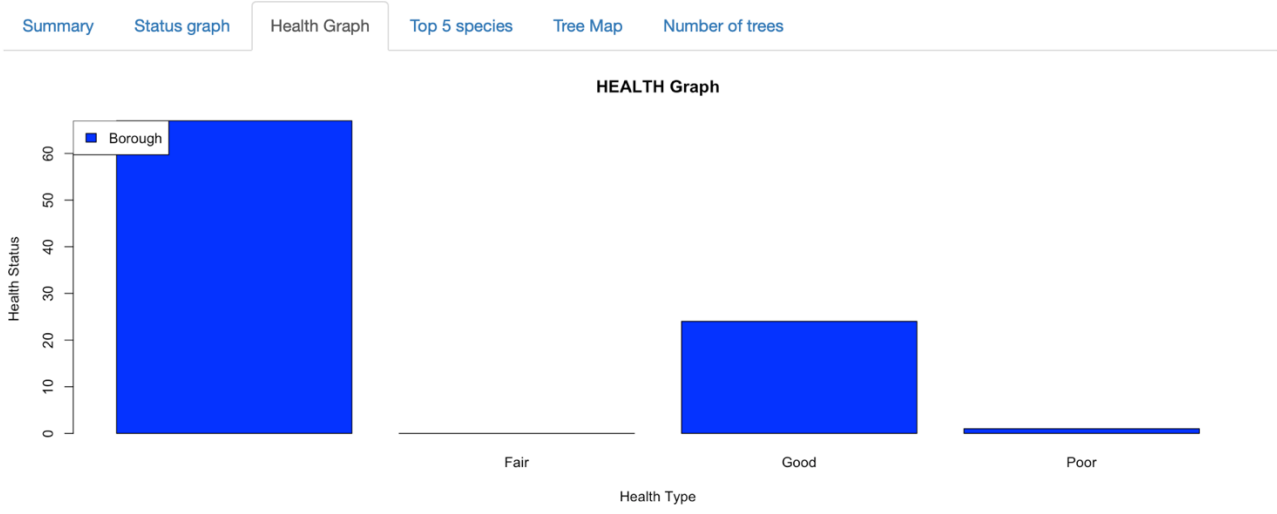
☐ Dead

☒ Stump

Tree diameter

1

50



## Top 5 species bar plot 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

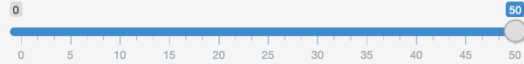
status of trees

☐ Alive

☒ Dead

☒ Stump

Tree diameter



Summary

Status graph

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Top 5 species

Tree Map

Number of trees

#### Top 5 species in Boroughs



# 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

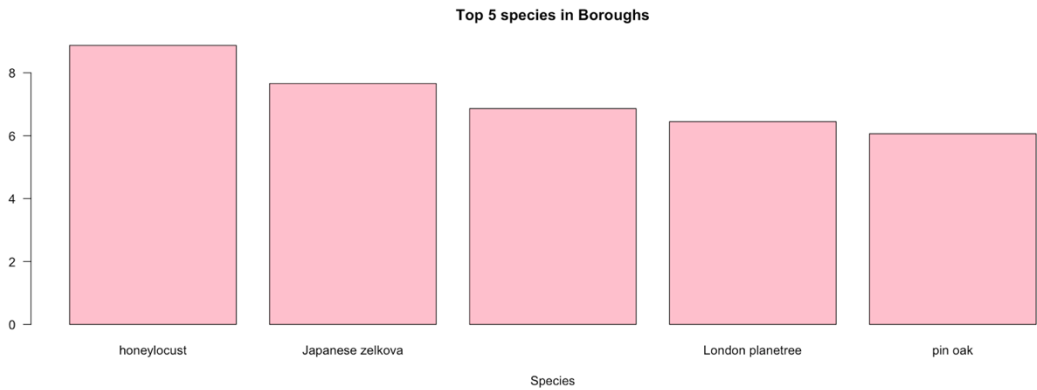
0

13

50

05101520253035404550

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





# Tree Map Before

## Where is the area having a lot of trees?

Which cities have more trees?

Brooklyn

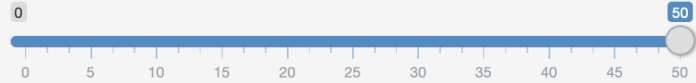
Does the tree is ON or OFF the Curb?

- ☐ On Curb  
☒ Off the Curb

status of trees

- ☒ Alive  
☐ Dead  
☐ Stump

Tree diameter



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



[Summary](#)

[Status graph](#)

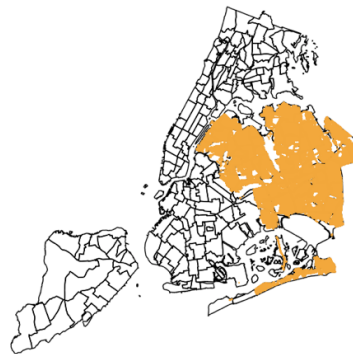
[Health Graph](#)

[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

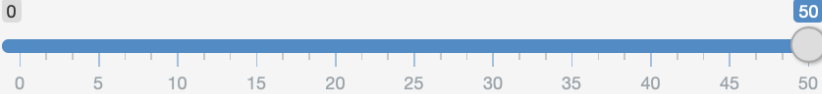
Does the tree is ON or OFF the Curb?

- ☒ On Curb  
☐ Off the Curb

status of trees

- ☒ Alive  
☒ Dead  
☐ Stump

Tree diameter



Summary

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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

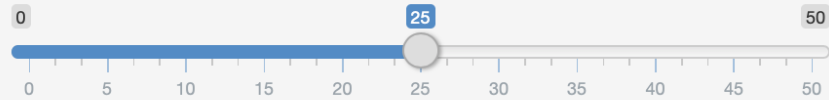
status of trees

☒ Alive

☒ Dead

☐ Stump

Tree diameter



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Var1	Freq
Alive	5698
Dead	118
Stump	135