**ALY6070: Communication and Visualization for Data Analytics**

**RShiny Application**

**Professor: Mykhaylo Trubskyy**

**Chong fan Bao**

# NYC

**Region:**

Bronx ▼

NYC tree condition by diffrent region

**Number of observations:**

| 1 | | | | | 30 | | | | | 66 |

1   8   15   22   29   36   43   50   57   64 66

66 bins total

**Number of observations to view:**

30

132 rows total

Summary    tree condition    tree status    mean diameter for species 1- 66    mean diameter for species 67- 132

table for mean diametr each species

```
   tree_dbh         curb_loc         status        health                          spc_latin
 Min.   :  0.00   OffsetFromCurb: 26892   Alive:652173      : 31616   Platanus x acerifolia          : 87014
 1st Qu.:  4.00   OnCurb        :656896   Dead : 13961   Fair: 96504   Gleditsia triacanthos var. inermis: 64264
 Median :  9.00                           Stump: 17654   Good:528850   Pyrus calleryana               : 58931
 Mean   : 11.28                                          Poor: 26818   Quercus palustris              : 53185
 3rd Qu.: 16.00                                                        Acer platanoides               : 34189
 Max.   :450.00                                                                                        : 31619
                                                                       (Other)                        :354586
           spc_common         guards           sidewalk            user_type                problems         root_stone
 London planetree: 87014        : 31616          : 31616   NYC Parks Staff :169986   None        :426280   No :543789
 honeylocust     : 64264   Harmful: 20252   Damage :187194   TreesCount Staff:296284   Stones      : 95673   Yes:139999
 Callery pear    : 58931   Helpful: 51866   NoDamage:464978   Volunteer       :217518                : 31664
 pin oak         : 53185   None   :572306                                             BranchLights    : 29452
 Norway maple    : 34189   Unsure :  7748                                             Stones,BranchLights: 17808
                 : 31619                                                              RootOther       : 11418
 (Other)         :354586                                                              (Other)         : 71493
 root_grate   root_other   trunk_wire   trnk_light   trnk_other   brch_light   brch_other       borough
 No :680252   No :653466   No :670514   No :682757   No :651215   No :621423   No :659433   Bronx        : 85203
 Yes:  3536   Yes: 30322   Yes: 13274   Yes:  1031   Yes: 32573   Yes: 62365   Yes: 24355   Brooklyn     :177293
                                                                                            Manhattan    : 65423
                                                                                            Queens       :250551
                                                                                            Staten Island:105318
```
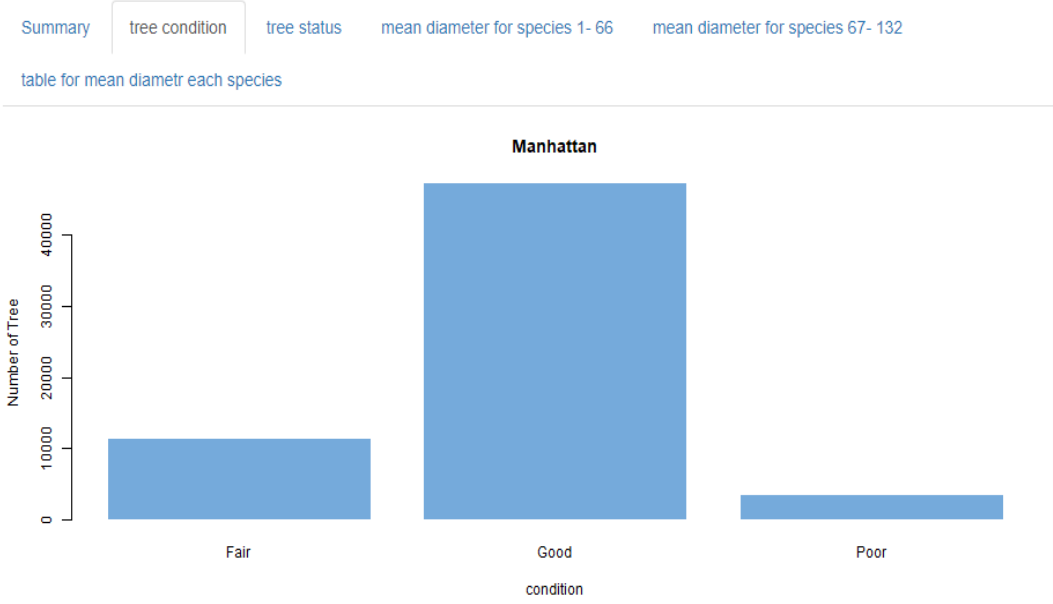
# NYC

**Region:**

Manhattan ▼

NYC tree condition by diffrent region

**Number of observations:**

| 1 | | | | | 30 | | | | | 66 |

1   8   15   22   29   36   43   50   57   64 66
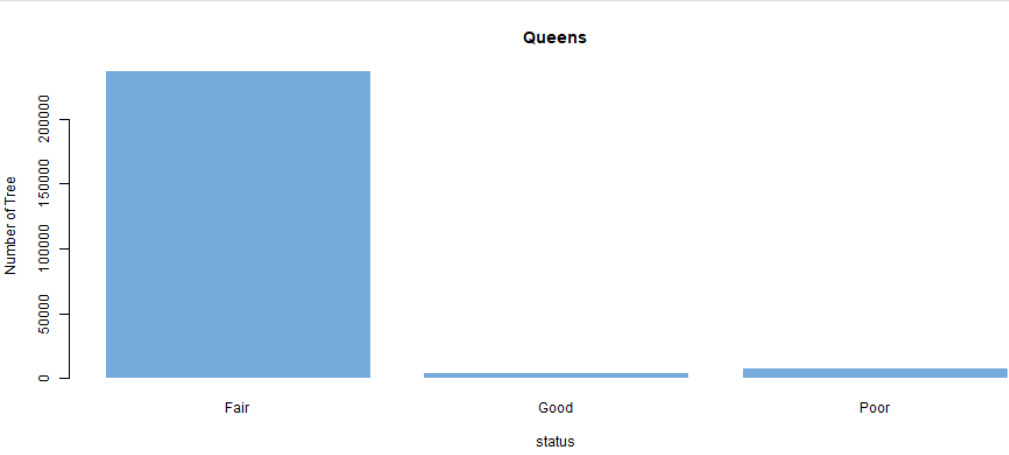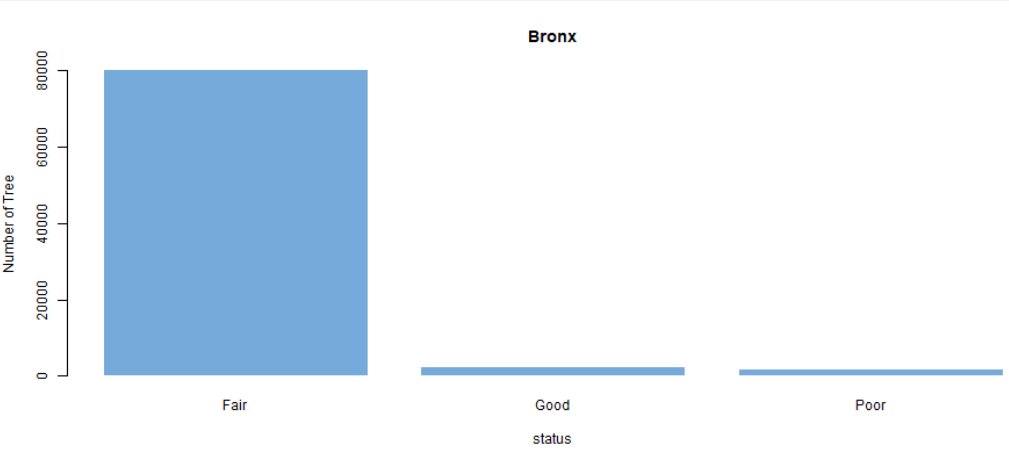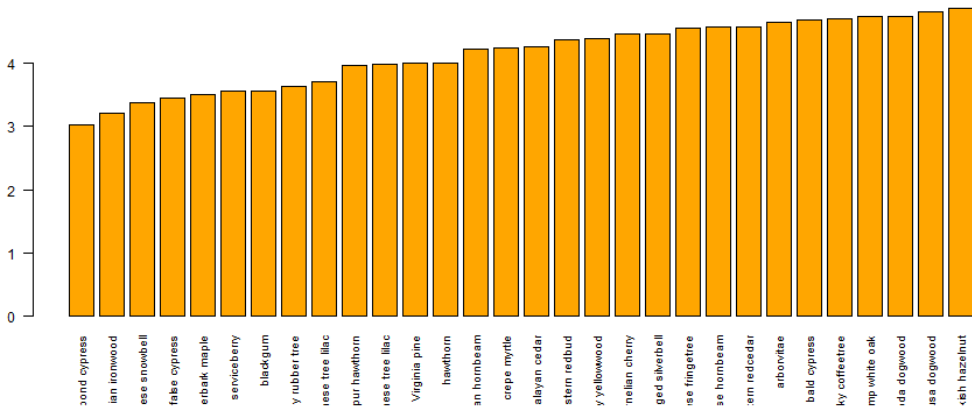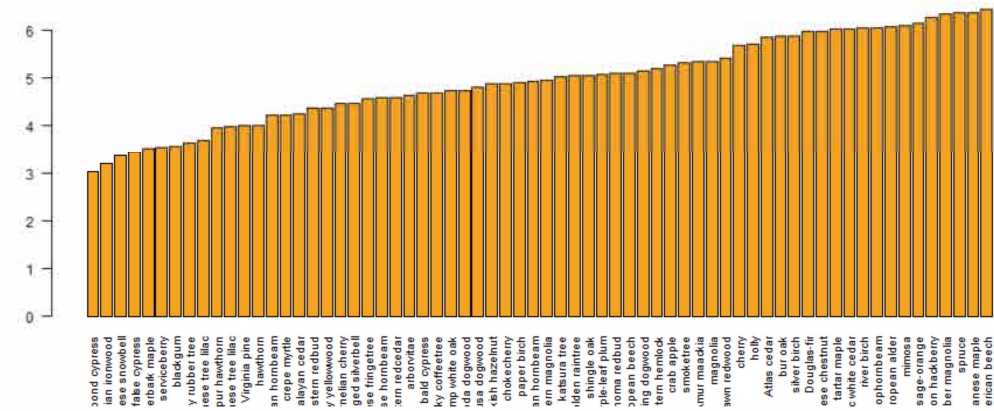
66 bins total

**Number of observations to view:**

30

132 rows total

Summary    tree condition    tree status    mean diameter for species 1- 66    mean diameter for species 67- 132

table for mean diametr each species



Manhattan bar chart: Number of Tree vs condition (Fair, Good, Poor)

# NYC

**Region:**

Queens ▼

NYC tree condition by diffrent region

**Number of observations:**

1 ─────────── 30 ─────────── 66

1   8   15   22   29   36   43   50   57   64 66

66 bins total

**Number of observations to view:**

30

132 rows total

**Queens**



# NYC

**Region:**

Bronx ▼

NYC tree condition by diffrent region

**Number of observations:**

1 ─────────── 30 ─────────── 66

1   8   15   22   29   36   43   50   57   64 66

66 bins total

**Number of observations to view:**

30

132 rows total

**Bronx**



# NYC

**Region:**

Bronx ▼

NYC tree condition by diffrent region

**Number of observations:**

1 ─────────── 30 ─────────── 66

1   8   15   22   29   36   43   50   57   64 66

66 bins total

**Number of observations to view:**

30

132 rows total

# NYC

**Region:**

Bronx

NYC tree condition by diffrent region

**Number of observations:**

1    8    15    22    29    36    43    50    57    64 66

66 bins total

**Number of observations to view:**

30

132 rows total



# NYC

**Region:**

Bronx

NYC tree condition by diffrent region

**Number of observations:**

1    8    15    22    29    36    43    50    57    64 66

66 bins total

**Number of observations to view:**

30

132 rows total

# NYC

**Region:**

Bronx ▾

NYC tree condition by diffrent region

**Number of observations:**

1        66

1   8   15   22   29   36   43   50   57   64 66
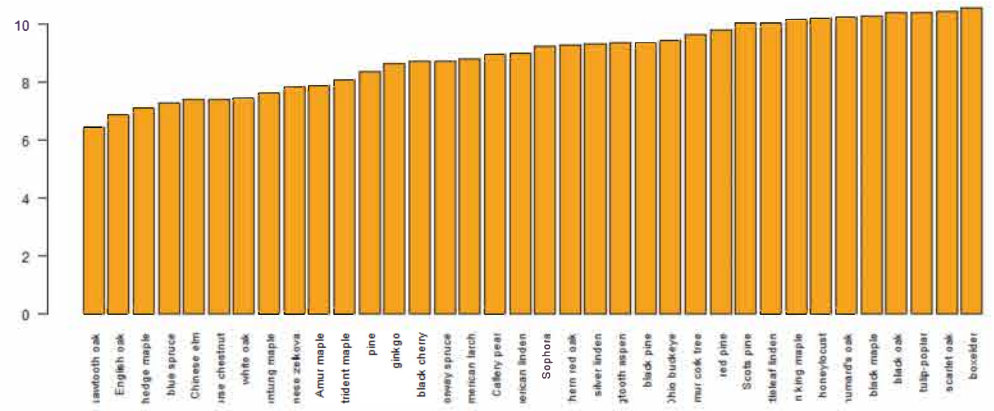
66 bins total

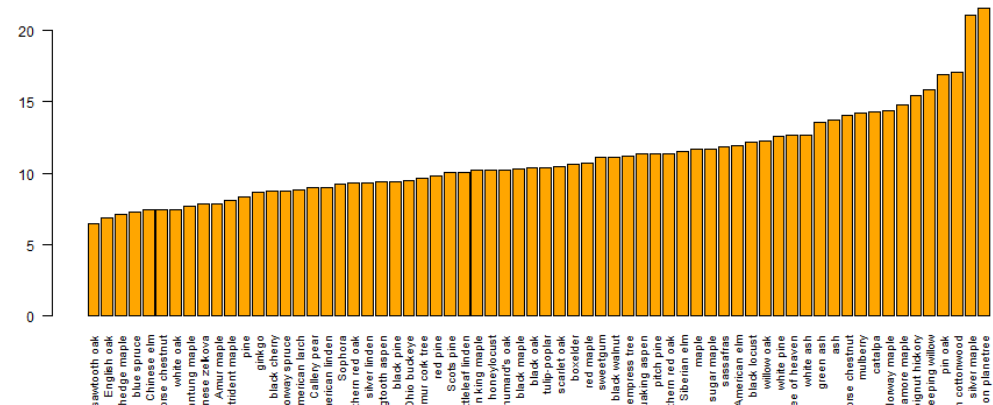**Number of observations to view:**

30

132 rows total

Summary    tree condition    tree status    mean diameter for species 1- 66    mean diameter for species 67- 132

table for mean diametr each species



# NYC

**Region:**

Bronx ▾

NYC tree condition by diffrent region

**Number of observations:**

1        66

1   8   15   22   29   36   43   50   57   64 66

66 bins total

**Number of observations to view:**

19

132 rows total

Summary    tree condition    tree status    mean diameter for species 1- 66    mean diameter for species 67- 132

table for mean diametr each species

| tree species | tree diameter mean |
| --- | --- |
| pond cypress | 3.02 |
| Persian ironwood | 3.20 |
| Japanese snowbell | 3.38 |
| false cypress | 3.45 |
| paperbark maple | 3.51 |
| serviceberry | 3.55 |
| blackgum | 3.56 |
| hardy rubber tree | 3.64 |
| Chinese tree lilac | 3.70 |
| cockspur hawthorn | 3.96 |
| Japanese tree lilac | 3.98 |
| Virginia pine | 4.00 |
| hawthorn | 4.01 |
| European hornbeam | 4.21 |
| crepe myrtle | 4.24 |
| Himalayan cedar | 4.25 |
| eastern redbud | 4.37 |
| Kentucky yellowwood | 4.38 |
| Cornelian cherry | 4.46 |