

LAB-1

Data Visualization

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Dataset:

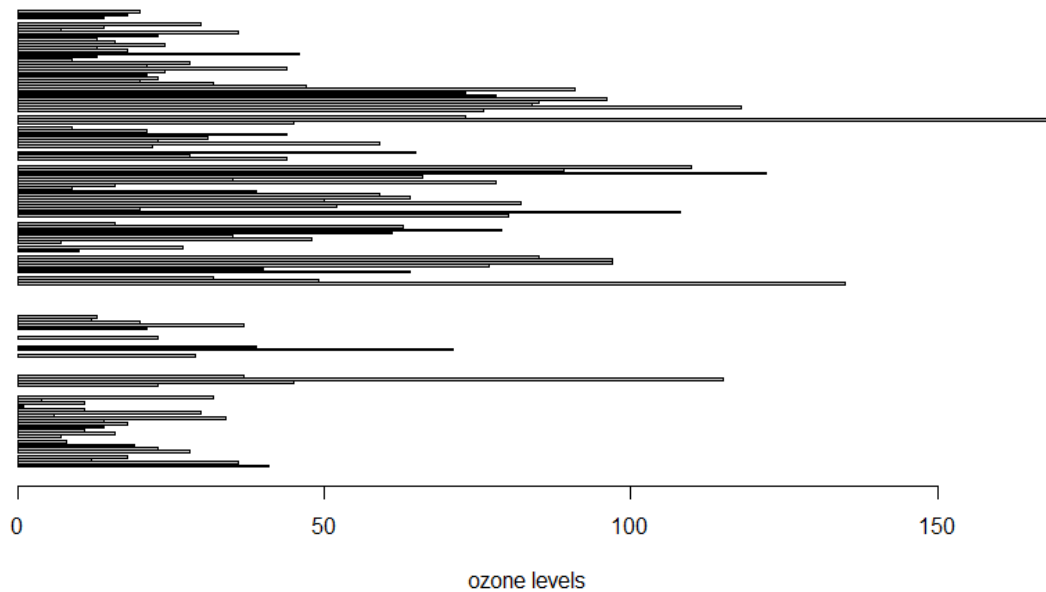
File	Edit	Code	View	Plots	Session	Build	Debug	Profile	Tools	Help
Go to file/function										
airquality										
Filter										
	Ozone	Solar.R	Wind	Temp	Month	Day				
1	41	190	7.4	67	5	1				
2	36	118	8.0	72	5	2				
3	12	149	12.6	74	5	3				
4	18	313	11.5	62	5	4				
5	NA	NA	14.3	56	5	5				
6	28	NA	14.9	66	5	6				
7	23	299	8.6	65	5	7				
8	19	99	13.8	59	5	8				
9	8	19	20.1	61	5	9				
10	NA	194	8.6	69	5	10				
11	7	NA	6.9	74	5	11				
12	16	256	9.7	69	5	12				
13	11	290	9.2	66	5	13				
14	14	274	10.9	68	5	14				
15	18	65	13.2	58	5	15				
16	14	334	11.5	64	5	16				
17	34	307	12.0	66	5	17				
18	6	78	18.4	57	5	18				
19	30	322	11.5	68	5	19				
20	11	44	9.7	62	5	20				
21	1	8	9.7	59	5	21				
22	11	320	16.6	73	5	22				
23	4	25	9.7	61	5	23				
24	32	92	12.0	61	5	24				
25	NA	66	16.6	57	5	25				
26	NA	266	14.9	58	5	26				
27	NA	NA	8.0	57	5	27				
28	23	13	12.0	67	5	28				
29	45	252	14.9	81	5	29				
30	115	223	5.7	79	5	30				
31	37	279	7.4	76	5	31				
32	NA	286	8.6	78	6	1				
33	NA	287	9.7	74	6	2				

Bar plot:

Code:

```
> barplot(airquality$Ozone,  
+         main = 'Ozone Concentration in air',  
+         xlab = 'ozone levels', horiz = TRUE)  
>
```

Output:

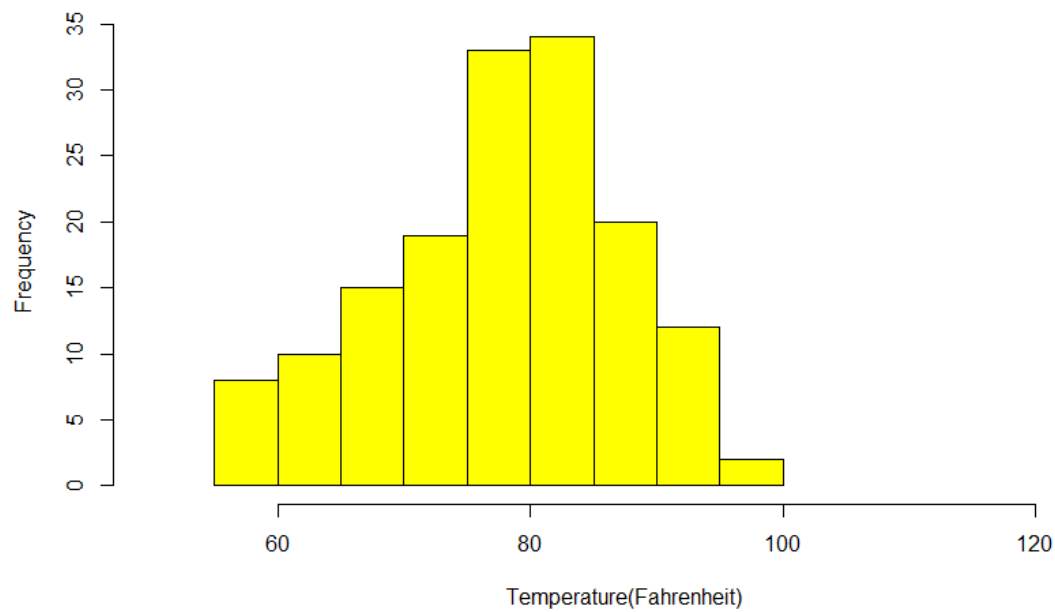


Histogram:

Code:

```
>  
> hist(airquality$Temp, main = "La Guardia Airport's\  
+ Maximum Temperature(Daily)",  
+      xlab = "Temperature(Fahrenheit)",  
+      xlim = c(50, 125), col = "yellow",  
+      freq = TRUE)  
>
```

Code:

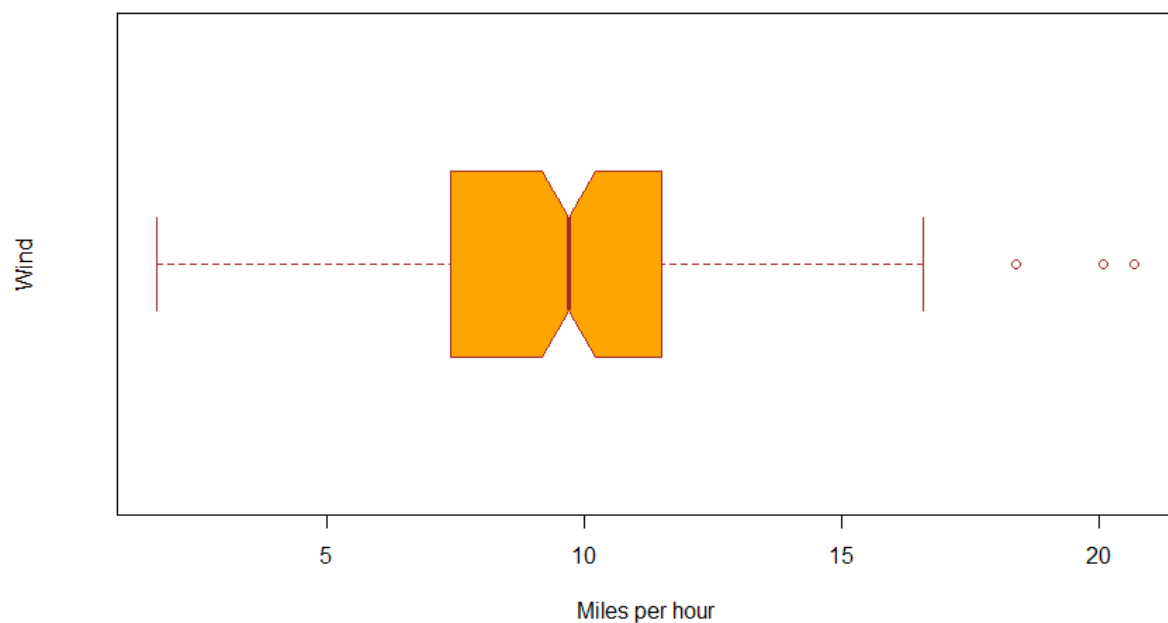


Box plot:

Code:

```
>
> boxplot(airquality$wind, main = "Average wind speed\
+ at La Guardia Airport",
+         xlab = "Miles per hour", ylab = "wind",
+         col = "orange", border = "brown",
+         horizontal = TRUE, notch = TRUE)
>
>
```

Output:

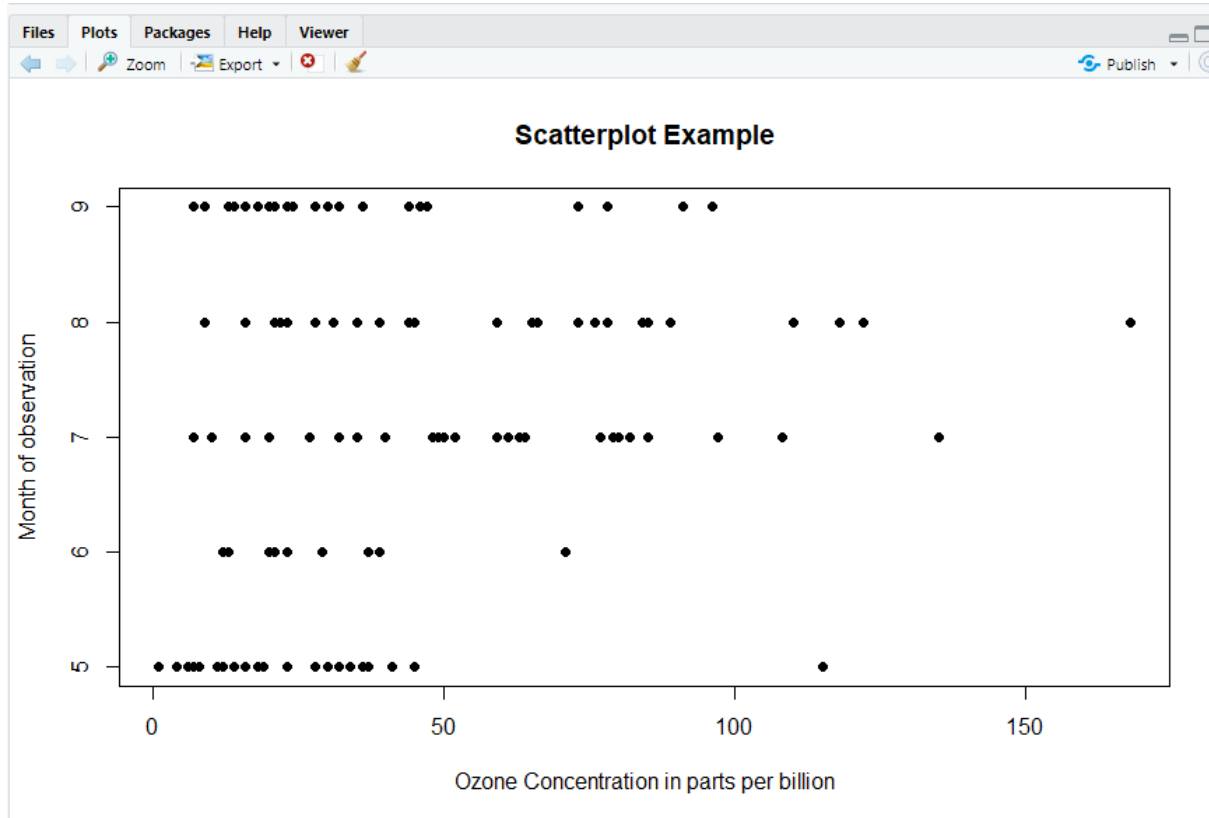


Scatter plot:

Code:

```
> plot(airquality$Ozone, airquality$Month,
+       main = "Scatterplot Example",
+       xlab = "Ozone Concentration in parts per billion",
+       ylab = "Month of observation", pch = 19)
> |
```

Output:



Heat map:

Code:

```
> # Create example data
> data <- matrix(rnorm(50, 0, 5), nrow = 5, ncol = 5)
>
> # Column names
> colnames(data) <- paste0("col", 1:5)
> rownames(data) <- paste0("row", 1:5)
>
> # Draw a heatmap
> heatmap(data)
```

Output:

