

EDA

Keshav

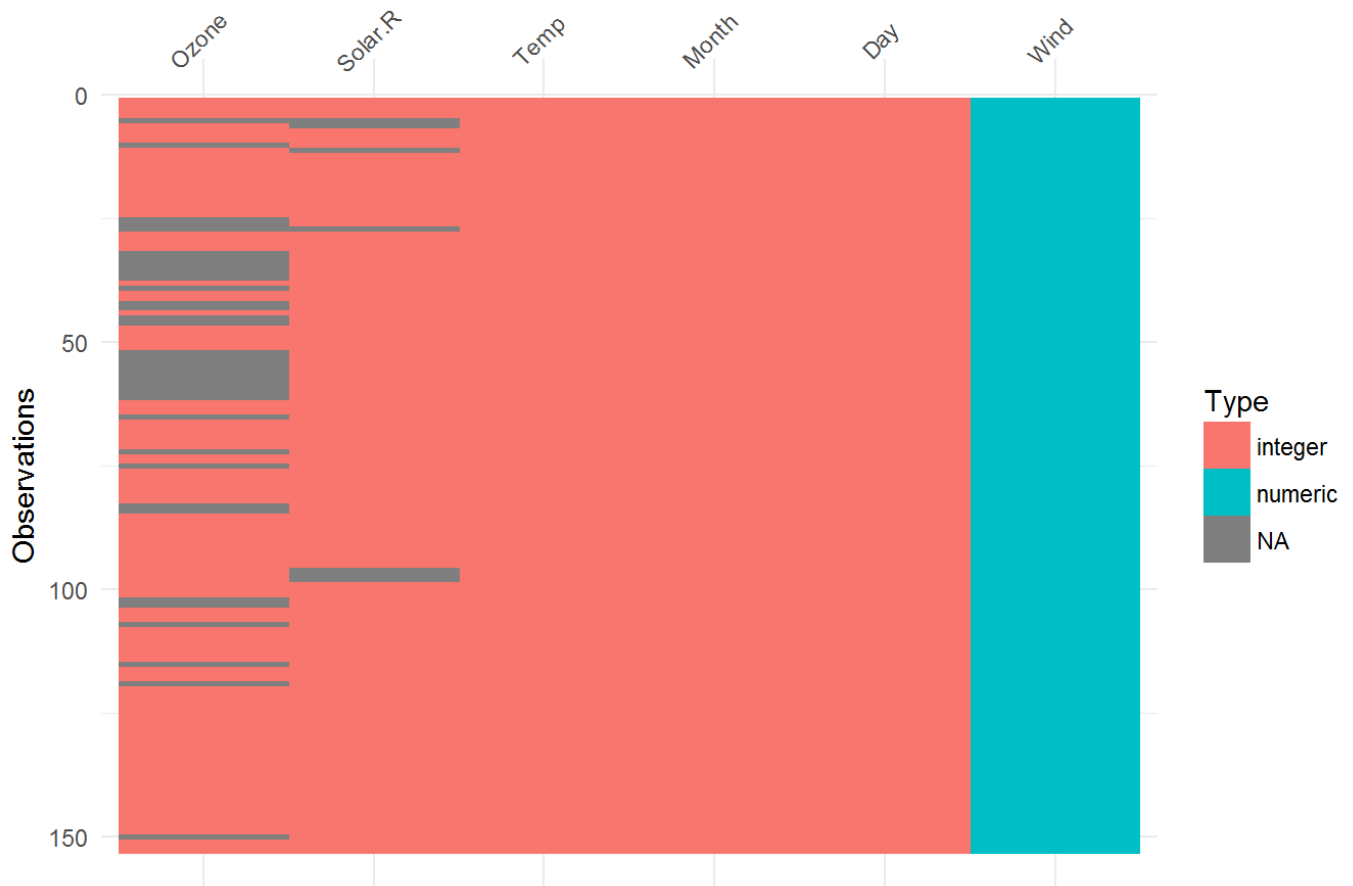
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Showing how EDA makes understanding of Missing value simple .The code is simple but powerful while understanding missing data.

```
#install.packages("visdat")  
library(visdat)
```

```
## Warning: package 'visdat' was built under R version 3.4.3
```

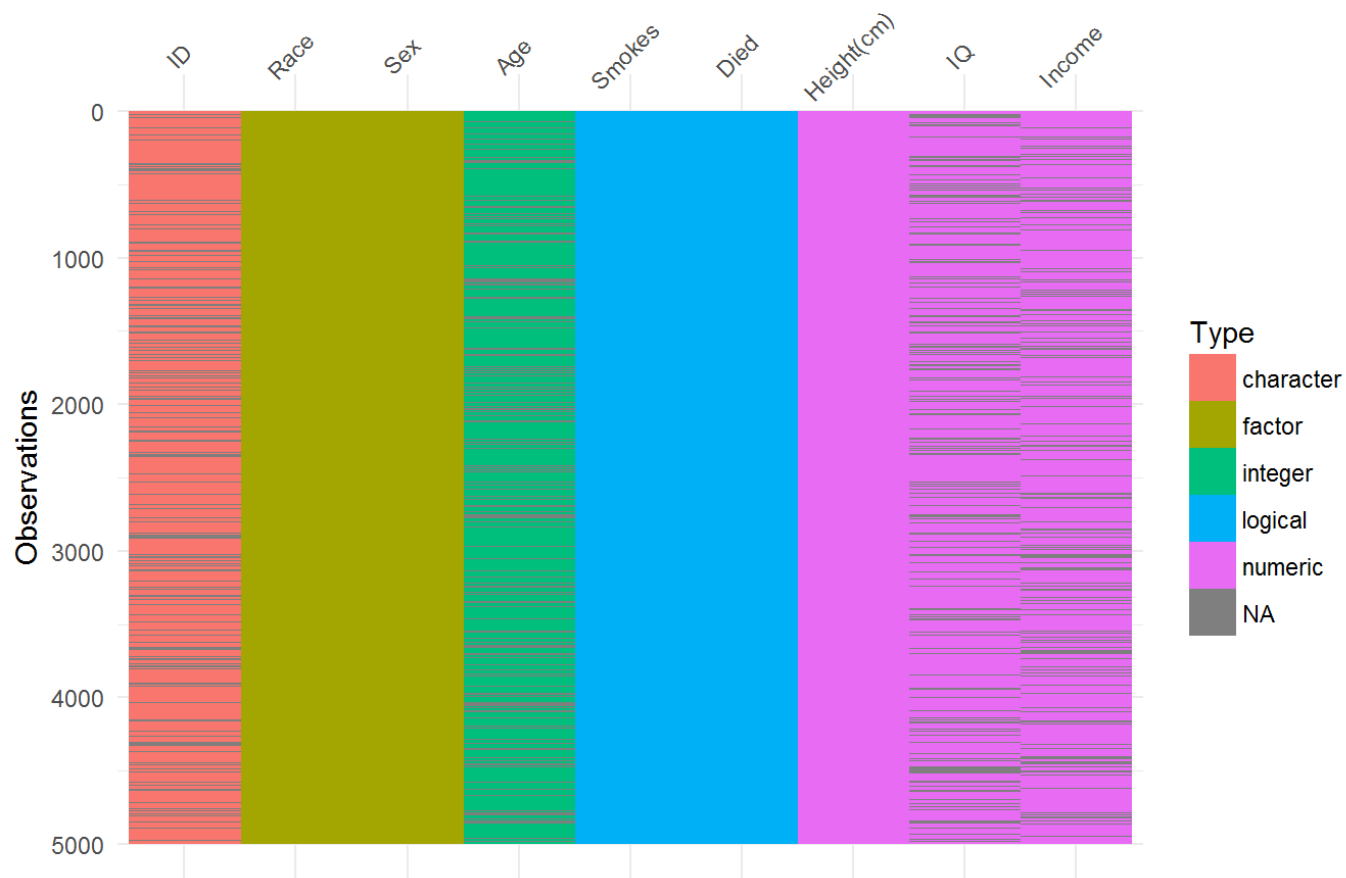
```
vis_dat(airquality)
```



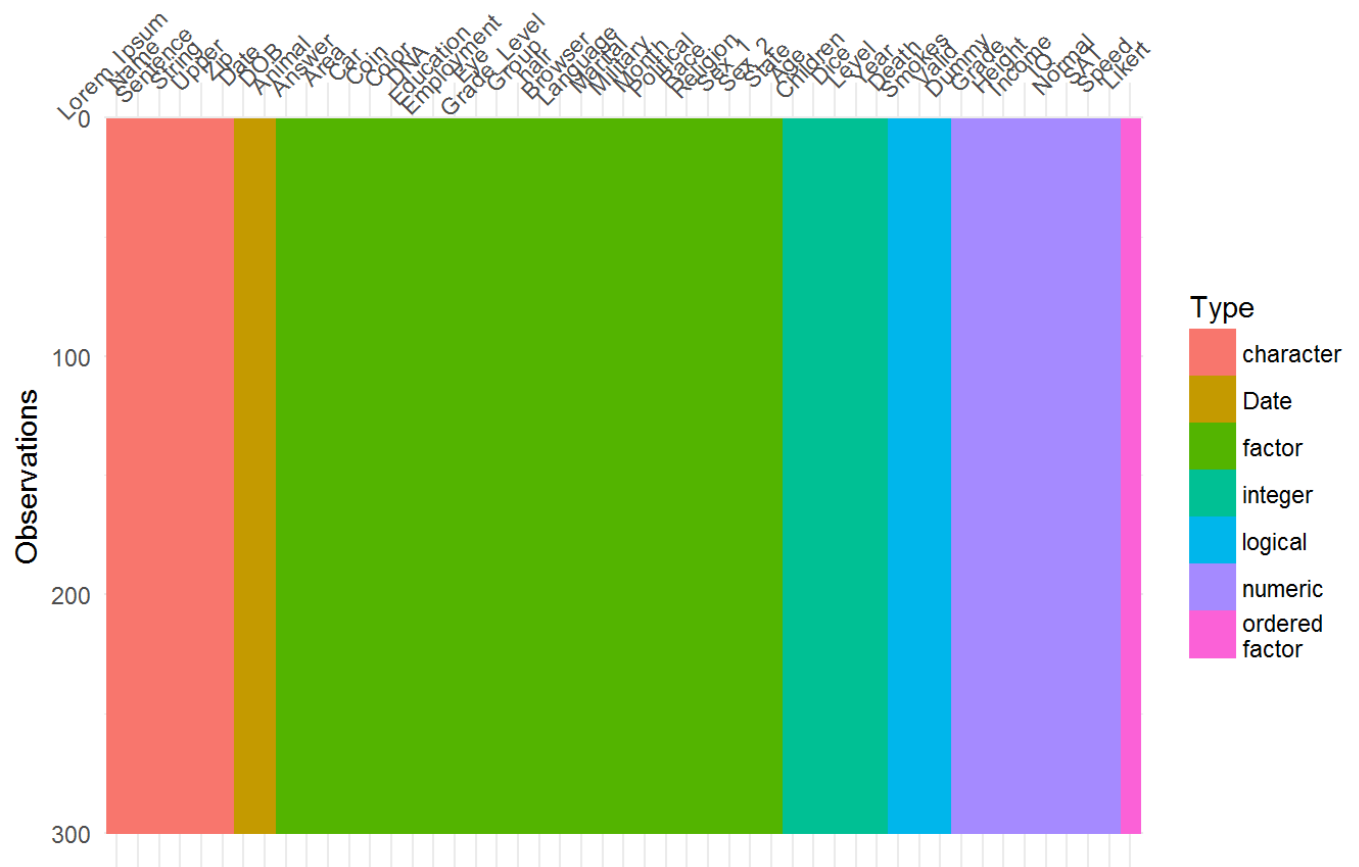
```
# We can sort the missing values in decreasing form.  
vis_dat(airquality,  
        sort_type = FALSE)
```



```
# Columns Data type and their missing values are also represnted.  
vis_dat(typical_data)
```

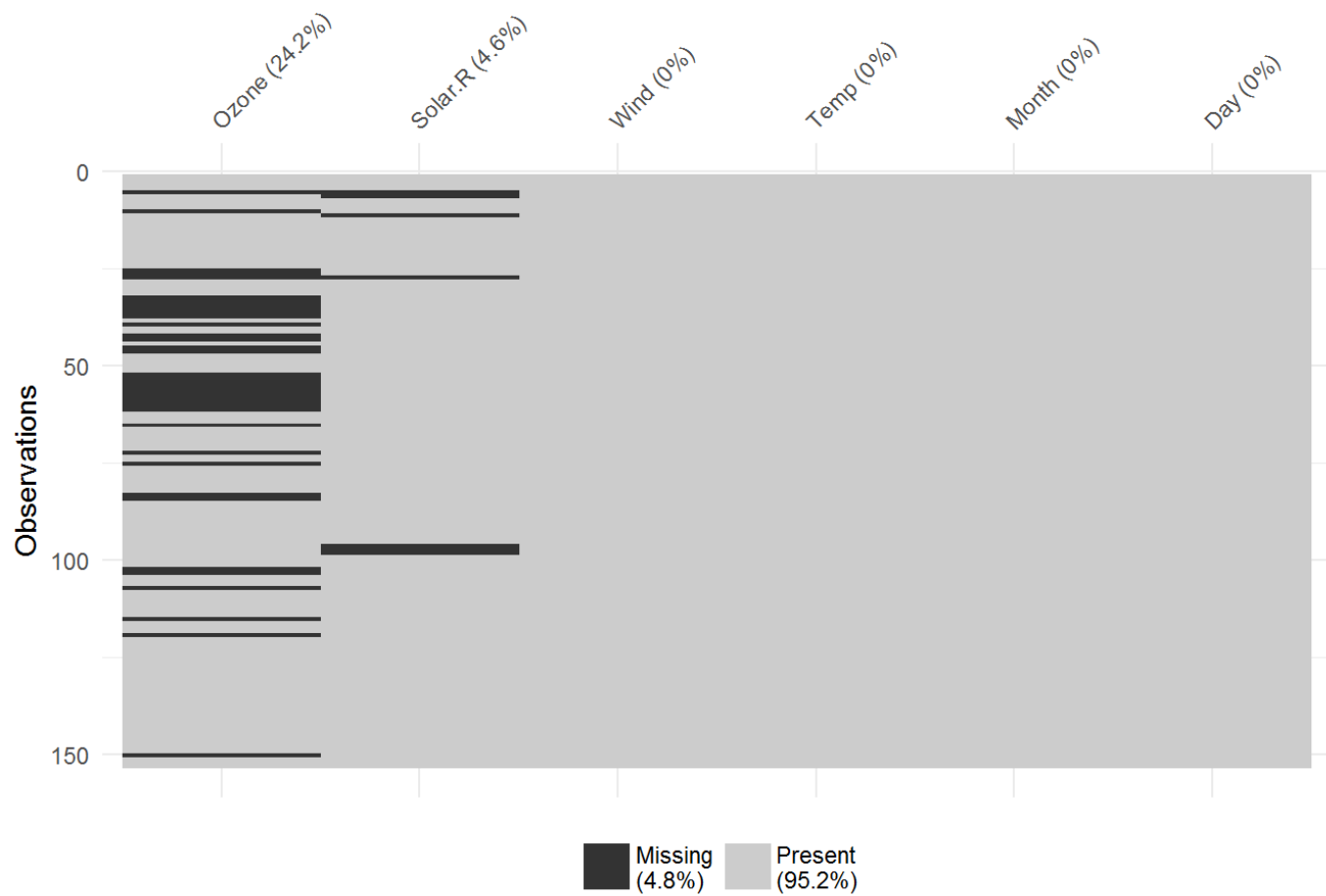


```
#By using vis_dat() we can look at many columns
vis_dat(typical_data_large)
```

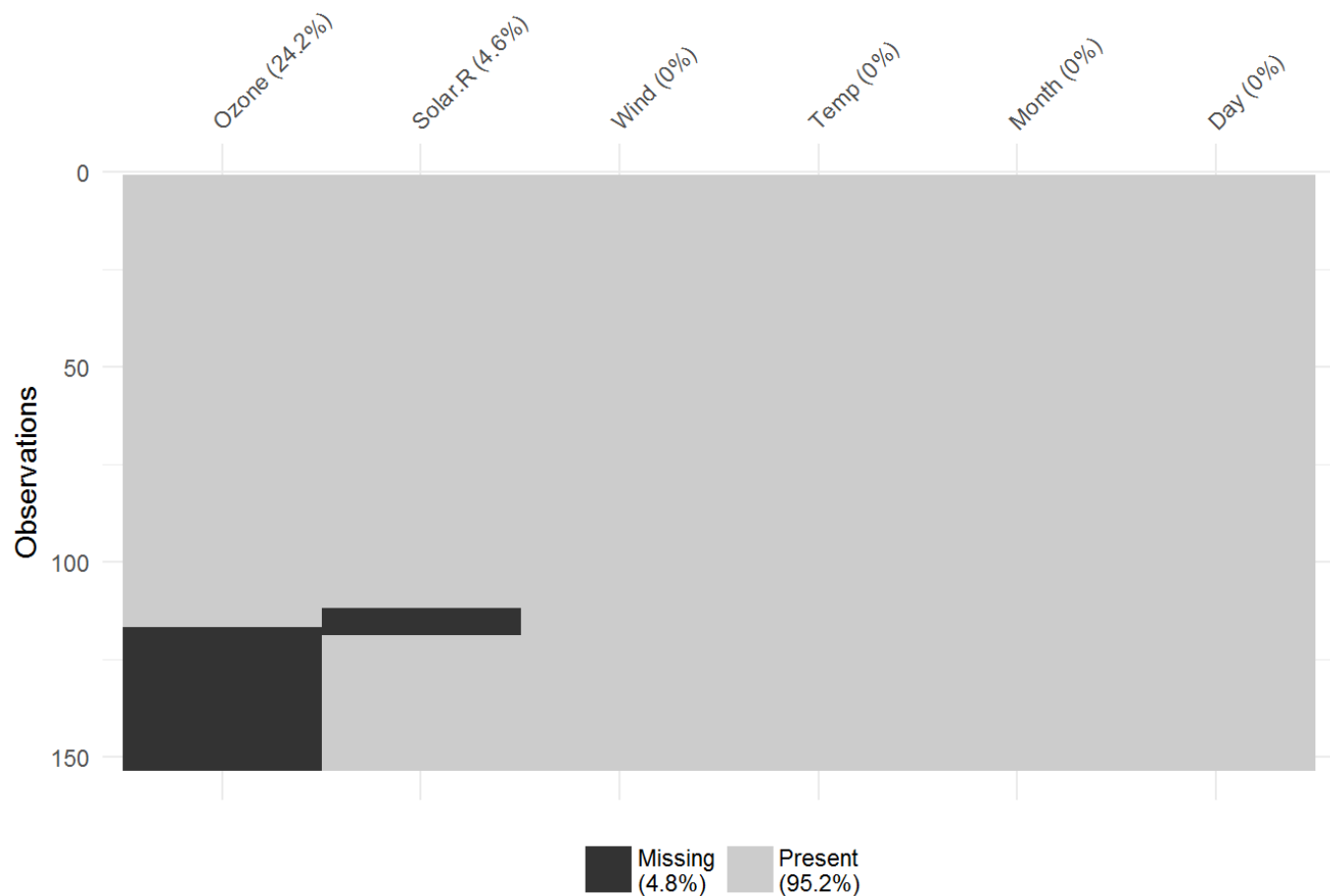


#We can explore the missing data further using vis_miss().

```
vis_miss(airquality)
```

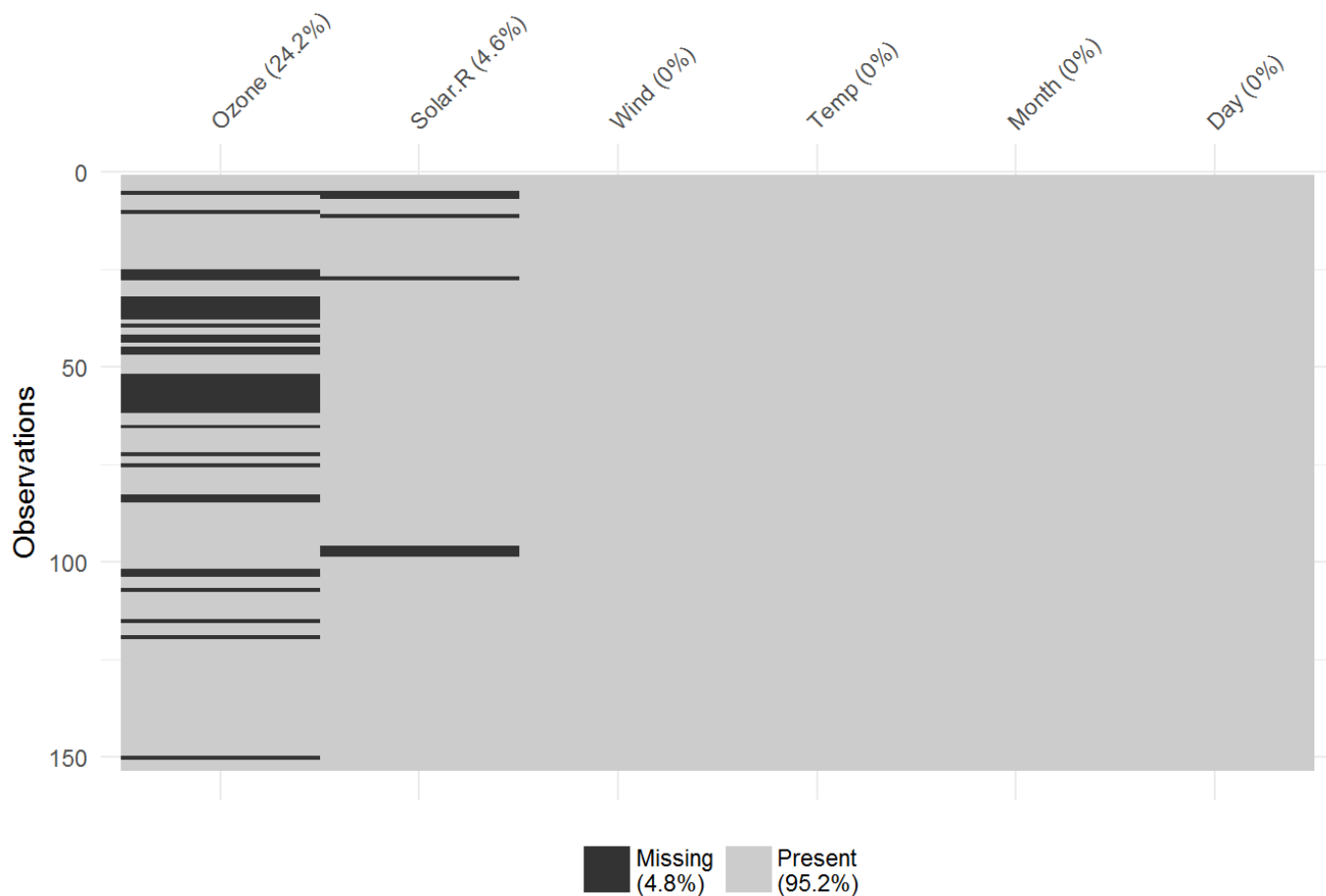


```
# It will cluster missing Data for simple understanding.  
vis_miss(airquality,  
         cluster = TRUE)
```



#The columns can also just be arranged by columns with most missingness, by setting `sort_miss = TRUE`.

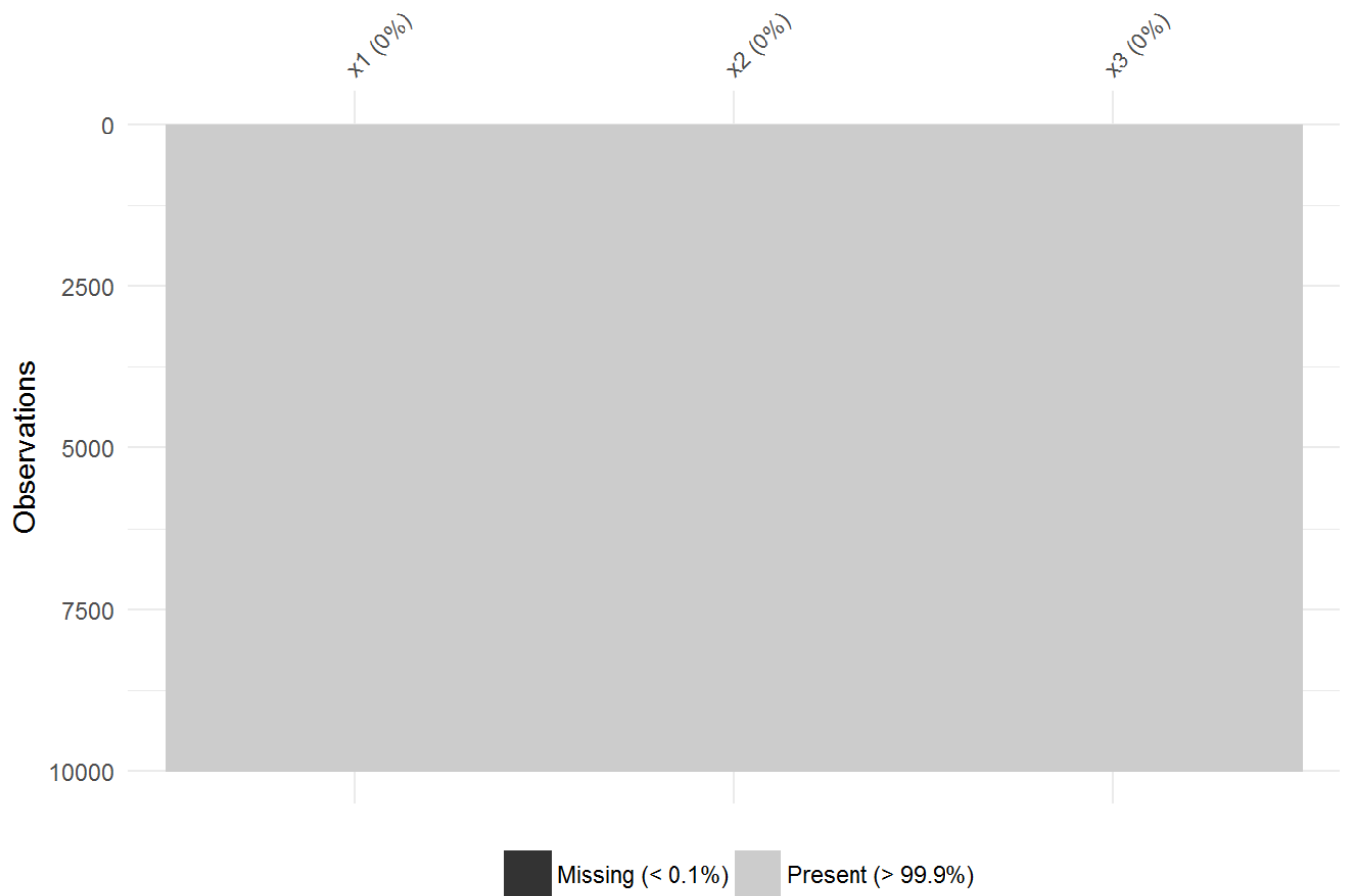
```
vis_miss(airquality,  
         sort_miss = TRUE)
```



#vis_miss indicates when there is a very small amount of missing data at <0.1% missingness.

```
test_miss_df <- data.frame(x1 = 1:10000,
                           x2 = rep("A", 10000),
                           x3 = c(rep(1L, 9999), NA))
```

```
vis_miss(test_miss_df)
```



```
#vis_miss will also indicate when there is no missing data at all.  
vis_miss(mtcars)
```