Lead-IQ Data Analysis Report

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In this study, we are interested in the lead-IQ dataset, which is described in detail in the Background/DataInfo.md document.

Let's read in the data first, and take a look at the variables in the dataset.

```
# Read in lead-iq-01.csv
lead_IQ <- read.csv("../DataRaw/lead-iq-01.csv", stringsAsFactors = T)
# Note: Since the report will be generated in the ./Reports folder,
# relative path is used here.
# Print head and tail of the dataset
kable(head(lead_IQ))</pre>
```

Smelter	IQ
Far	70
Far	85
Far	86
Far	76
Far	96
Far	94

kable(tail(lead_IQ))

Near:57

1st Qu.: 81.50

```
Smelter
              IQ
119
     Near
               95
120
     Near
               77
121
     Near
               74
122
     Near
               96
123
     Near
               91
124
     Near
               78
```

```
## Median : 91.00
## Mean : 98.34
## 3rd Qu.: 99.25
## Max. :999.00
```

It will be great to show the IQ levels by location status in a box plot.

boxplot(IQ ~ Smelter, data = lead_IQ)

