Data Visualization in R Workshop

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Data Visualization in R

Load in Libraries

```
library("ggplot2")
library("lattice")
library("IDPmisc")
```

Histogram in R

```
ggplot(flowers, aes(x = Days.to.grow)) + geom_histogram()
```

Bar Chart with ggplot

```
ggplot(flowers, aes(type.of.flower))+
  geom_bar() +
  ggtitle("Frequency of Flower Types") +
  xlab("Flower Types") +
  ylab("Frequency")
```

Bar chart with lattice

```
barchart(flowers$type.of.flower, main="Frequency of Salary", ylab="Salary Category", xlab="Frequency")
```

Stacked Bar Charts in R

Scatter Plot in R

```
ggplot(flowers, aes(x = Cost.to.grow, y = Cost.of.force)) + geom_point()
```

Line Charts in R

```
ggplot(flowerShipment, aes(as.Date(Date, "%m/%d/%Y"), Cost)) +
  geom_line() +
  xlab("Date of Flower Shipment") +
  ylab("Cost of Flowers") +
  ggtitle("Cost of Flowers Over Time")
```

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