

test

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
library(readr)
library(readxl)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
library(tidyr)
library(ggplot2)
library(scales)
```

```
##
## Attaching package: 'scales'

## The following object is masked from 'package:readr':
##
##   col_factor
```

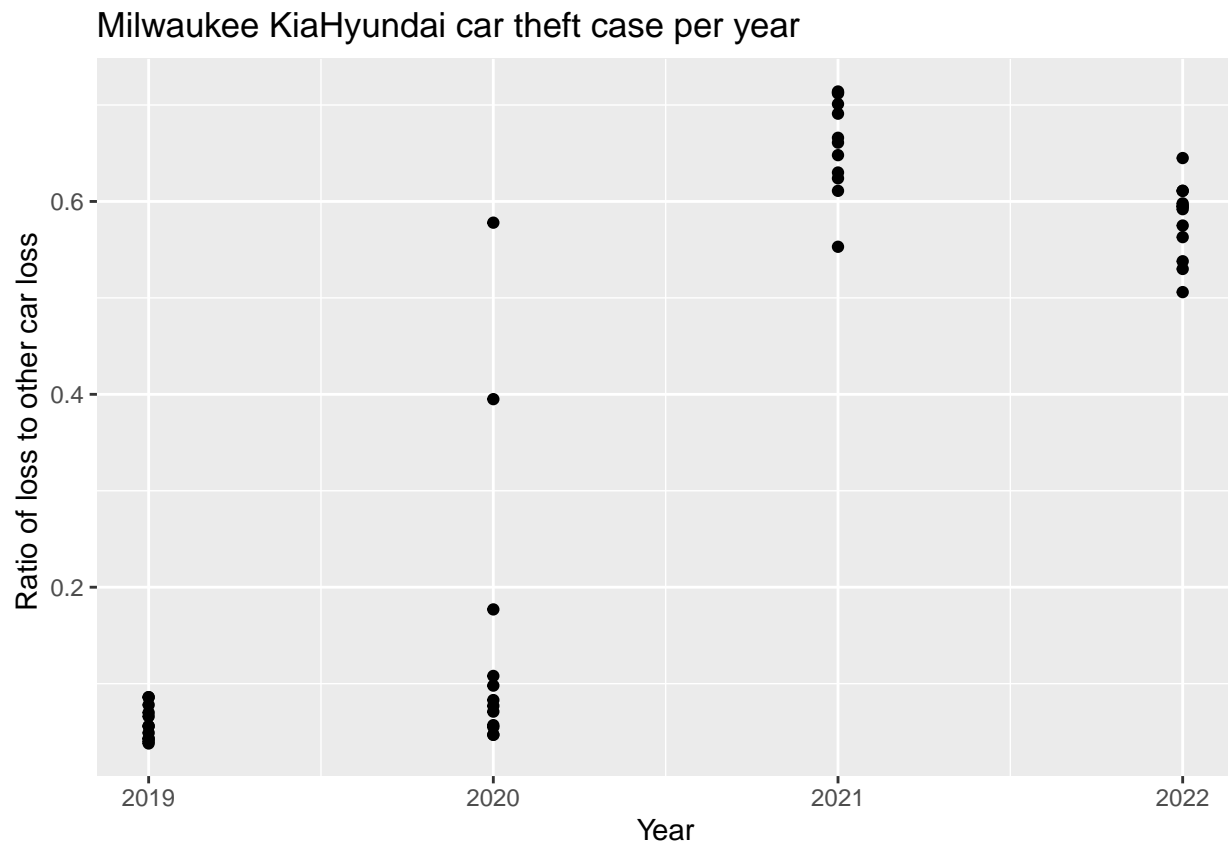
```
setwd("~/dsc640/Wk5-6")

M_loss <- read_excel('KiaHyundaiMilwaukeeData.xlsx', sheet = 'KiaHyundaiMilwaukeeData')
```

```
ggplot(M_loss, aes(M_loss$year, M_loss$percentKiaHyundai)) +
  ggtitle("Milwaukee KiaHyundai car theft case per year") +
  labs(y="Ratio of loss to other car loss ", x="Year") +
  geom_point()
```

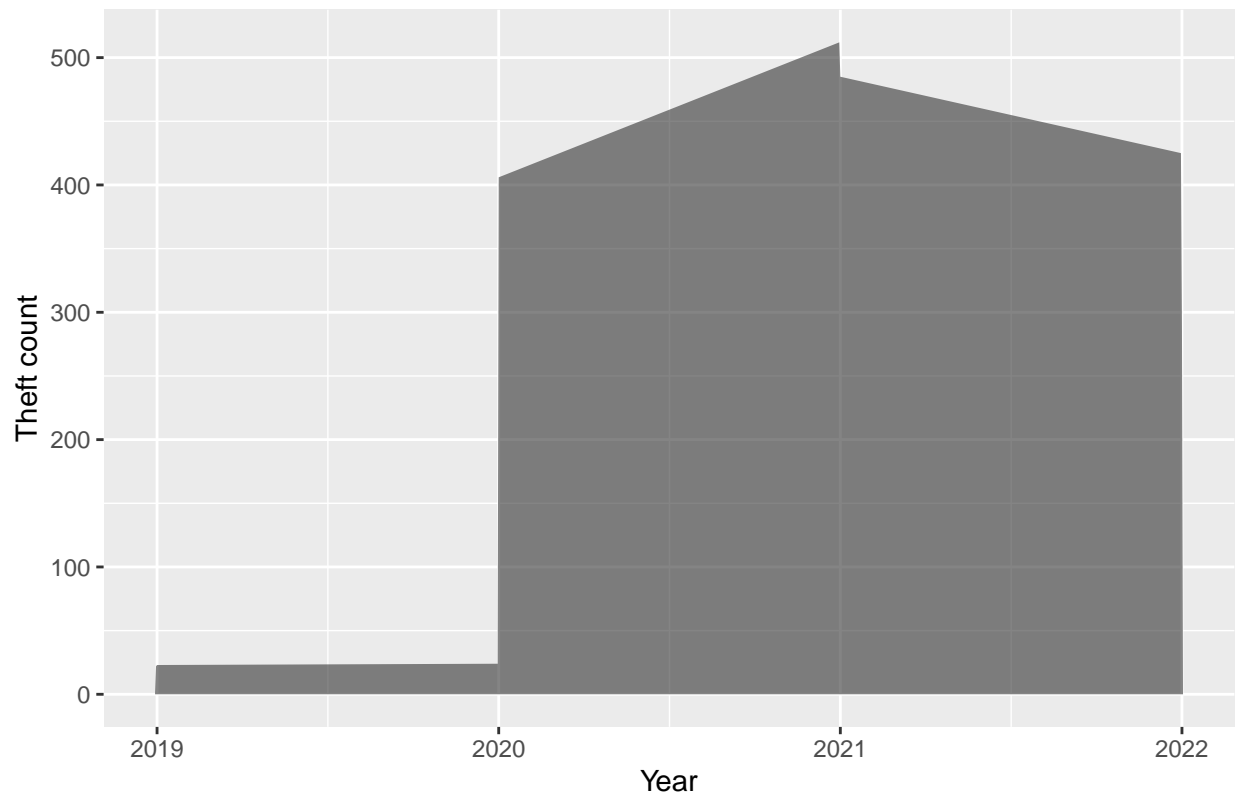
```
## Warning: Use of 'M_loss$year' is discouraged.
## i Use 'year' instead.
```

```
## Warning: Use of 'M_loss$percentKiaHyundai' is discouraged.
## i Use 'percentKiaHyundai' instead.
```



```
#plot again by area chart
ggplot(M_loss, aes(year, countKiaHyundaiThefts)) +
  ggtitle("KiaHyundai car theft count per year") +
  labs(y="Theft count", x="Year") +
  geom_area(alpha=0.6)
```

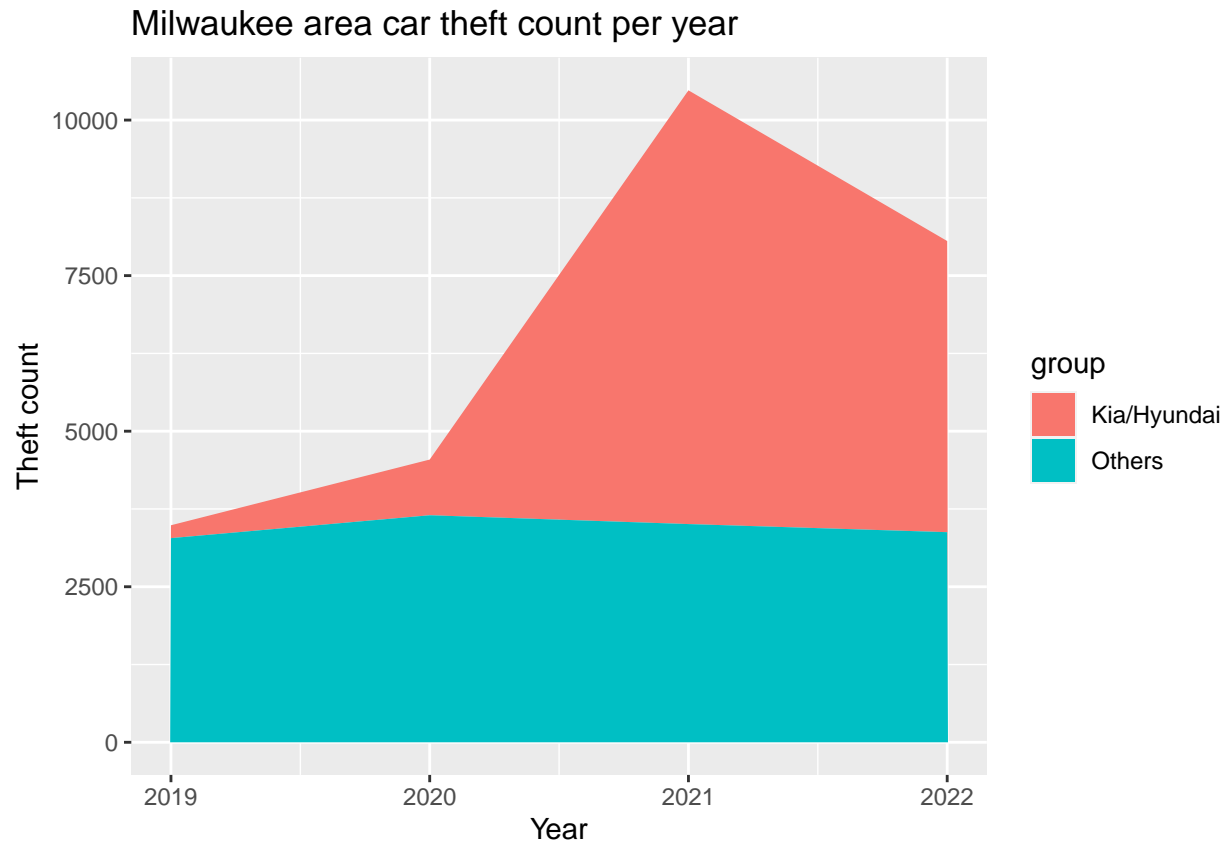
KiaHyundai car theft count per year



```
#plot stacked area chart  
M_allloss<- read_excel('KiaHyundaiMilwaukeeData.xlsx', sheet ='Sheet3')
```

```
## New names:  
## * ' ' -> '...4'  
## * ' ' -> '...5'
```

```
ggplot(M_allloss, aes(x=year, y=Count, fill=group)) +  
  ggtitle("Milwaukee area car theft count per year") +  
  labs(y="Theft count", x="Year") +  
  geom_area()
```



Including Plots

You can also embed plots, for example:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.