

# Practise Shipping

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```
load("C:/Users/Selimhan/Desktop/shippingData.RData")
```

```
library(ggplot2)
library(dplyr)
```

```
table(shippingData$Center , shippingData$Status)
```

```
##
##           Back order Late On time
##   Central           6    6     93
##   Eastern           8    9     92
##   Western           3    0    102
```

```
shippingData %>%
  group_by(Center) %>%
  summarize(
    count = n() ,
    mean.Days = mean(Days , na.rm = TRUE) ,
    sd.Days = sd(Days , na.rm = TRUE) ,
    mean.Distance = mean(Distance , na.rm = TRUE) ,
    sd.Distance = sd(Distance , na.rm = TRUE) ,

  )
```

```
## # A tibble: 3 x 6
##   Center count mean.Days sd.Days mean.Distance sd.Distance
##   <fct>   <int>    <dbl>   <dbl>         <dbl>         <dbl>
## 1 Central   105     3.98     1.28         253.          100.
## 2 Eastern   109     4.45     1.25         283.          107.
## 3 Western   105     2.98     1.09         251.           89.0
```

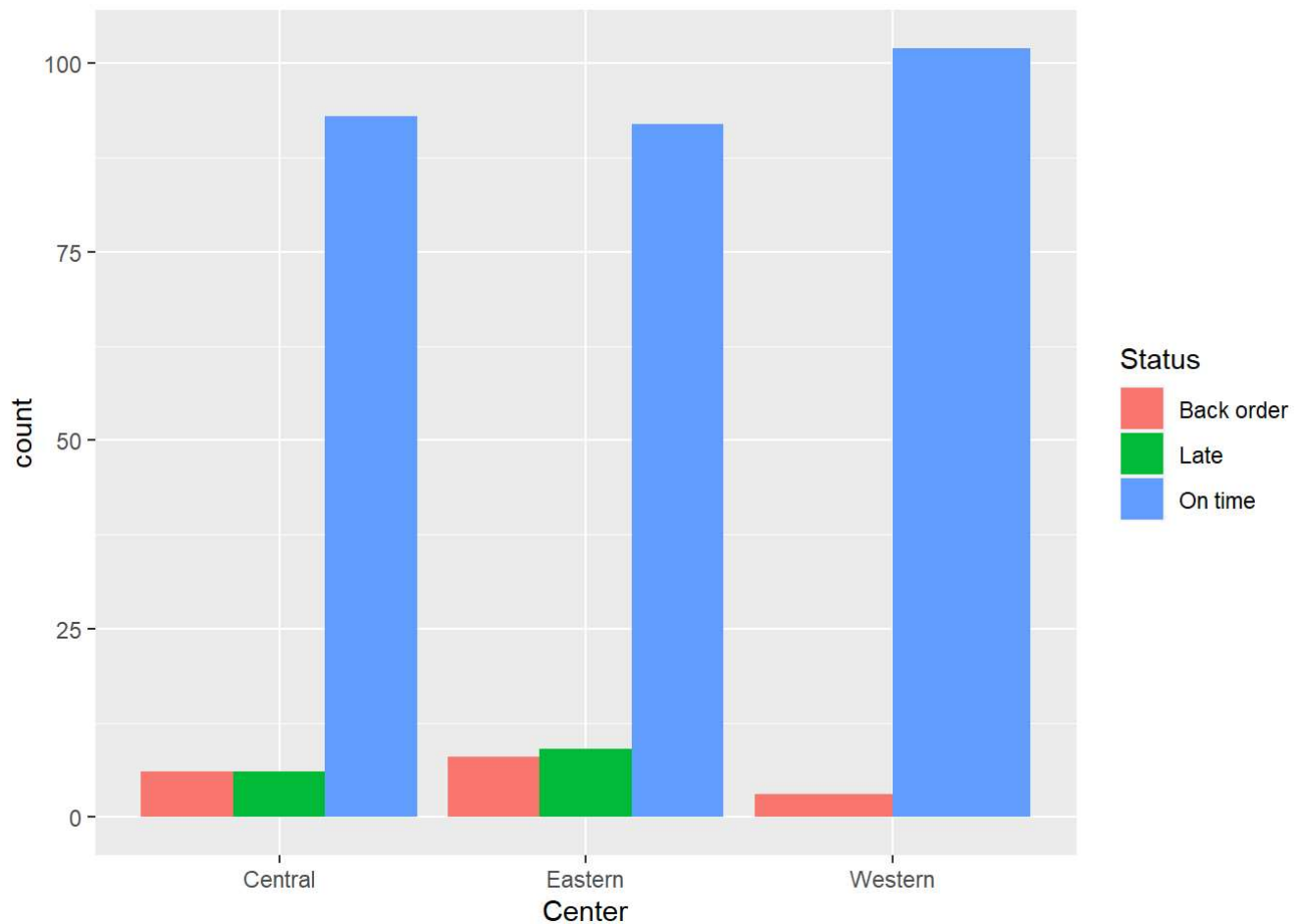
```
# Fastest Late Delivery
min(filter(shippingData , Status == "Late")$Days)
```

```
## [1] 6.07847
```

```
# Slowest On-time Delivery
max(filter(shippingData , Status == "On time")$Days)
```

```
## [1] 5.98264
```

```
ggplot(shippingData) + geom_bar(aes(x = Center , fill = Status) , position = "dodge")
```



```
ggplot(shippingData) + geom_histogram(aes(x = Days) , binwidth = 0.5 , color = "blue" , fill = "steelblue" , position = "identity") + facet_wrap(~Center , nrow = 3)
```

