

Data607_Project2_Rajan

```
require(dplyr)
```

```
## Loading required package: 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
```

```
require(tidyr)
```

```
## Loading required package: tidyr
```

```
require(magrittr)
```

```
## Loading required package: magrittr
##
## Attaching package: 'magrittr'
## The following object is masked from 'package:tidyr':
##
##   extract
```

```
require(stringr)
```

```
## Loading required package: stringr
```

```
require(zoo)
```

```
## Loading required package: zoo
##
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##   as.Date, as.Date.numeric
```

```
require(ggplot2)
```

```
## Loading required package: ggplot2
```

```
require(ggthemes)
```

```
## Loading required package: ggthemes
```

```
require(extrafont)
```

```
## Loading required package: extrafont
```

```
## Registering fonts with R
```

```
##Fix poort formatting from the file
AeroCost = read.csv(file="AeroCost.csv",header=TRUE,sep="," ,na.strings = c("", "NA"))
head(c)
```

```
##
```

```
## 1 .Primitive("c")
```

```
##Tidy data done with TidyR,
AeroCost$Type=na.locf(AeroCost$Type)
AeroCost$Type = str_trim(AeroCost$Type)
AeroCost$Model = str_trim(AeroCost$Model)
AeroCost$Type=as.factor(AeroCost$Type)
AeroCost$Model= as.factor(AeroCost$Model)
AeroCost = gather(AeroCost,Year,Cost,X1941:X1945)
```

```
## Warning: attributes are not identical across measure variables;
## they will be dropped
```

```
AeroCost$Model[AeroCost$Model==""] <- NA
AeroCost$Model= as.factor(AeroCost$Model)
AeroCost$Year=str_replace(AeroCost$Year,"X","")
AeroCost$Year=as.factor(AeroCost$Year)
AeroCost$Cost=str_replace(AeroCost$Cost,"","")
AeroCost$Cost=as.numeric(AeroCost$Cost)
```

```
## Warning: NAs introduced by coercion
```

```
AeroCost = AeroCost[complete.cases(AeroCost$Model),]
write.csv(AeroCost,"AircraftCostData.csv", row.names=FALSE)
head(AeroCost)
```

```
##
## 2 Very Heavy Bombers B-29 1941 NA
## 4 Heavy Bombers B-17 1941 301221
## 5 Heavy Bombers B-24 1941 379162
## 6 Heavy Bombers B-32 1941 NA
## 8 Medium Bombers B-25 1941 180031
## 9 Medium Bombers B-26 1941 261062
```

```
##Plot for Tranport
```

```
##Ran out of time
```