Non-Insured

abc < -abc[, -c(2:6)]

abc < -abc[,-c(3)]

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```
require(openxlsx)
 ## Loading required package: openxlsx
 require(maps)
 ## Loading required package: maps
 require(ggplot2)
 ## Loading required package: ggplot2
 require(mapproj)
 ## Loading required package: mapproj
i imported the xls to xlsx by google sheet.
 abc<-read.xlsx("~/Documents/R Programming/Census/spreadsheet.xlsx")
get ride of two first rows:
 abc < -abc[-c(1,2),]
there are couple of columns that i want to get ride of too
 abc < -abc[, -c(9:12)]
```

and how to remove those "....." infront of each state? after several time try dot dot dot... i realized the "." that is used in this table part of them is different from regualr dot. So I had to copy it from the table by view(abc) and replace it with "".

```
abc$State <- gsub("...","", abc$State, fixed = TRUE)
abc$State <- gsub(".","", abc$State, fixed = TRUE)
```

charachter to numertic

```
abc$`2015.Uninsured` <- as.numeric(abc$`2015.Uninsured`)
```

changing the name

```
colnames(abc) [2]<- "Uninsured"
```

Creating the map

```
abc$region <- tolower(abc$State)
states <- map_data("state")
map.df <- merge(states,abc, by="region", all.x=T)
map.df <- map.df[order(map.df$order),]
head(map.df)</pre>
```

```
##
      region
                             lat group order subregion
                                                           State Uninsured
                   long
## 1 alabama -87.46201 30.38968
                                      1
                                            1
                                                    <NA> Alabama
                                                                        484
## 2 alabama -87.48493 30.37249
                                      1
                                            2
                                                    <NA> Alabama
                                                                        484
                                                   <NA> Alabama
## 3 alabama -87.52503 30.37249
                                      1
                                            3
                                                                        484
## 4 alabama -87.53076 30.33239
                                      1
                                            4
                                                   <NA> Alabama
                                                                        484
## 5 alabama -87.57087 30.32665
                                      1
                                            5
                                                   <NA> Alabama
                                                                        484
## 6 alabama -87.58806 30.32665
                                            6
                                                    <NA> Alabama
                                      1
                                                                        484
```

```
ggplot(map.df, aes(x=long,y=lat,group=group))+
  geom_polygon(aes(fill=Uninsured))+
  geom_path()+
  scale_fill_gradientn(colours=rev(heat.colors(30)))+
  coord_map()
```

