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Data Visualisation

Review 3

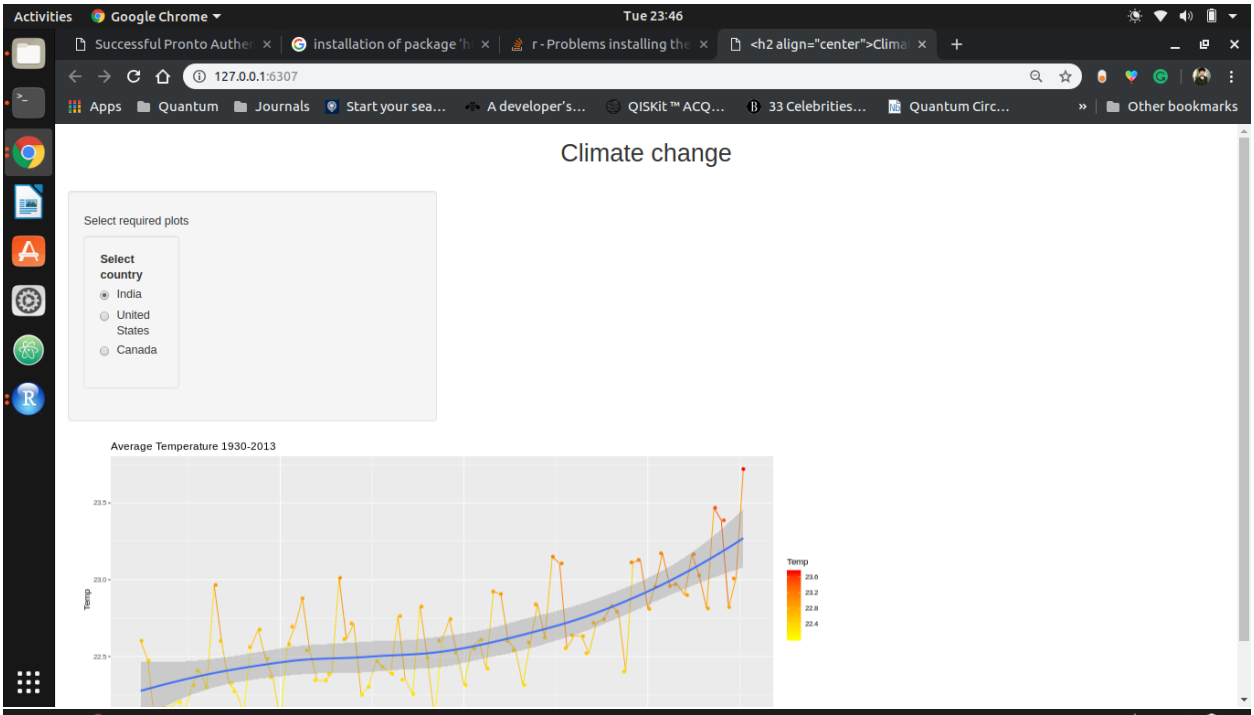
Dataset name: Global Surface Temperature

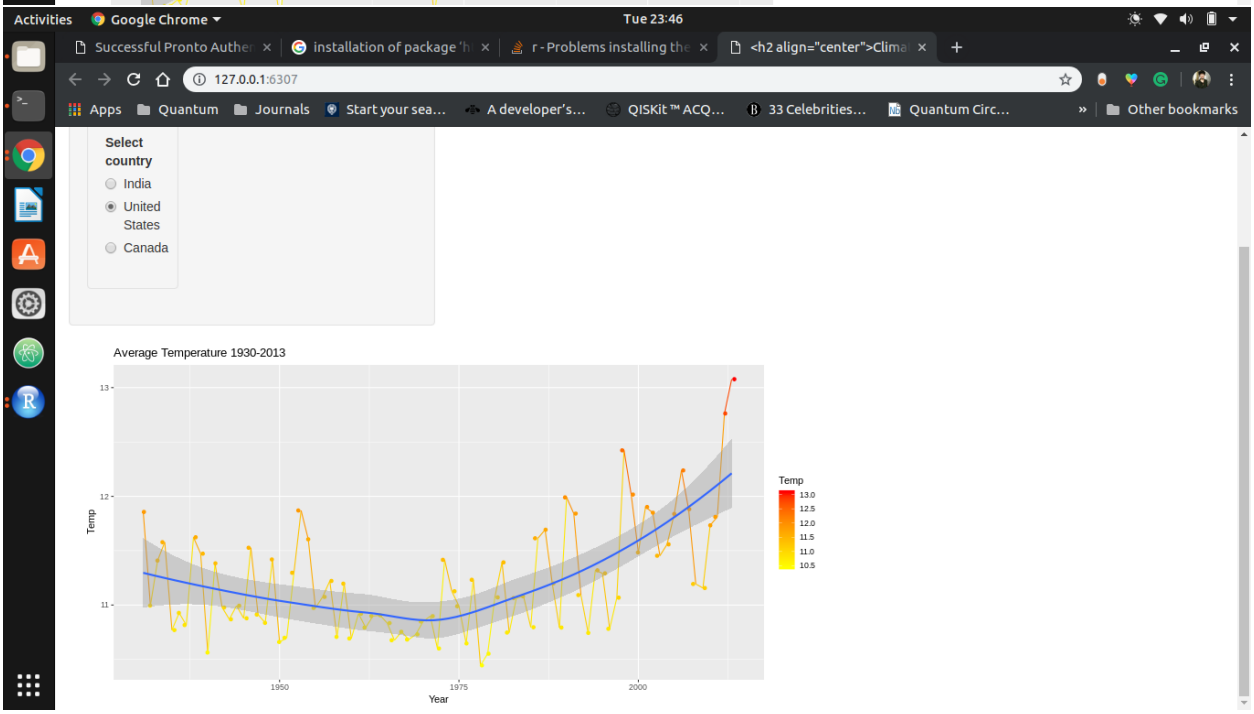
Data source: https://www.kaggle.com/berkeleyearth/climate-change-earth-surface-temperature-data

Code:

```
library(shiny)
library(plotly)
library(ggplot2)
library(ggthemes)
library(data.table) library(tidyr)
library('tidyr')

data <- read.csv('Data/GlobalLandTemperaturesByState.csv', TRUE,",")
head(data)

row.has.na <- apply(data, 1, function(x){any(is.na(x))})
sum(row.has.na)
data <- data[!row.has.na,]
data <- separate(data,col = dt, into = c("Year", "Month", "Day"), convert = TRUE)
data<- filter(data,Year>1930)

shinyServer(
```

```
function(input,output) {

    output$myplot <- renderPlot( {

  data_new <- filter(data,Country==input$plot_ctry)


  data_new %>%
    group_by(Year) %>%
    summarise(Temp = mean(AverageTemperature)) -> data_new1


 data_new <- filter(data,Country==input$plot_ctry)

 data_new %>%
  filter(Year>1930) %>%
  group_by(Year) %>%
  summarise(Temp = mean(AverageTemperature)) ->data_new1

  qplot(Year,Temp, data=data_new1, main="Average Temperature 1930-2013",
        geom=c("line","jitter","smooth"))+ aes(colour = Temp) +
    scale_color_gradient(low="yellow", high="red")


 })

}
)
```


Activities
Google Chrome
Tue 23:46
127.0.0.1:6307
Apps
Quantum
Journals
Start your sea...
A developer's...
QISKit™ ACQ...
33 Celebrities...
Quantum Circ...
Other bookmarks
Climate change
Select required plots
Select country
India
United States
Canada
Average Temperature 1930-2013
Temp


Activities
Google Chrome
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127.0.0.1:6307
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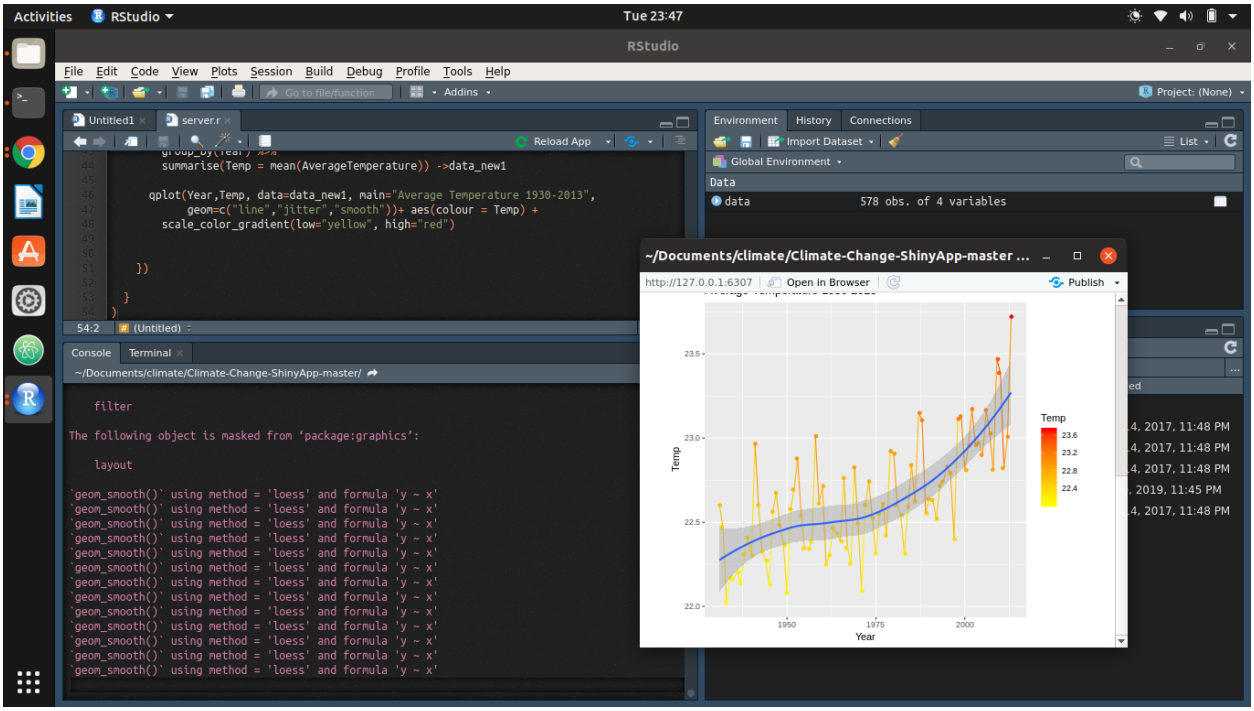
Other bookmarks
Select country
India
United States
Canada
Average Temperature 1930-2013
Temp
Year


Activities
RStudio
Tue 23:47
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Untitled1
server.r
Reload App
summarise(Temp = mean(AverageTemperature)) ->data_new1
qplot(Year,Temp, data=data_new1, main="Average Temperature 1930-2013",
geom=c("line","jitter","smooth"))+ aes(colour = Temp) +
scale_color_gradient(low="yellow", high="red")
Environment
History
Connections
Import Dataset
Global Environment
Data
data
578 obs. of 4 variables
Console
Terminal
~/Documents/climate/Climate-Change-ShinyApp-master/
filter
The following object is masked from 'package:graphics':
layout
`geom_smooth()` using method = 'loess' and formula 'y ~ x'
~/Documents/climate/Climate-Change-ShinyApp-master ...
http://127.0.0.1:6307
Open in Browser
Publish
Temp
Year
1950
1975
2000
22.0
22.5
23.0
23.5
23.6
23.2
22.8
22.4