

Assignment 6

Ex01

```
> library(shiny); runApp('C:/Users/jsnor/OneDrive/Desktop/SCHOOL/UT-  
Dallas/Courses/EPPS6356-DataVisualization/Assignments/Shiny/ex01.R')  
Rows: 61 Columns: 6  
— Column specification
```

Delimiter: ","

chr (1): Date of survey

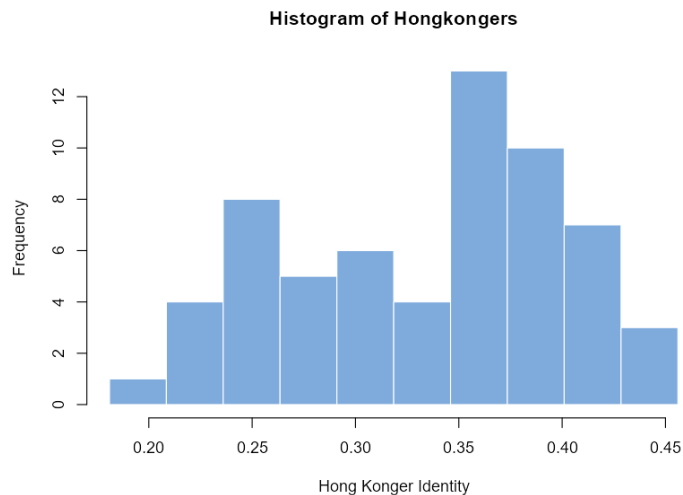
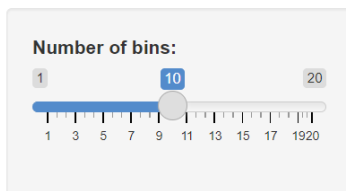
dbl (5): Hongkonger, Hongkonger in China, Chinese in Hong Kong, Chinese, Mixed Identity

i Use ``spec()`` to retrieve the full column specification for this data.

i Specify the column types or set ``show_col_types = FALSE`` to quiet this message.

Listening on <http://127.0.0.1:6964>

Hong Kong Identity



i. Can you change the personal font?

```
# Load necessary libraries  
library(foreign)  
library(shiny)  
library(readr)  
  
# Load data  
hkid <-  
read_csv("https://raw.githubusercontent.com/datageneration/datavisualization/master/data/  
hkid.csv")  
  
# Define UI for app that draws a histogram ----  
ui <- fluidPage(  
  
  # Add custom CSS to change font  
  tags$style(HTML("  
    body {  
      font-family: Georgia, serif;  
    }  
  ")),  
  )
```

```

# App title ----
titlePanel("Hong Kong Identity"),

# Sidebar layout with input and output definitions ----
sidebarLayout(

  # Sidebar panel for inputs ----
  sidebarPanel(

    # Input: Slider for the number of bins ----
    sliderInput(inputId = "bins",
                label = "Number of bins:",
                min = 1,
                max = 20,
                value = 10)

  ),

  # Main panel for displaying outputs ----
  mainPanel(

    # Output: Histogram ----
    plotOutput(outputId = "distPlot")

  )
)

# Define server logic required to draw a histogram ----
server <- function(input, output) {

  # Histogram of the Hong Kong Identity Data ----
  output$distPlot <- renderPlot({

    x <- hkid$Hongkonger
    bins <- seq(min(x), max(x), length.out = input$bins + 1)

    hist(x, breaks = bins, col = "#75AADB", border = "white",
         xlab = "Hong Konger Identity",
         main = "Histogram of Hongkongers")

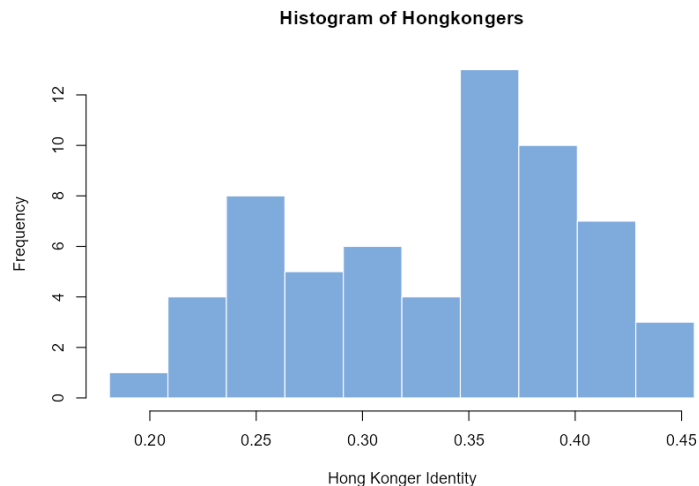
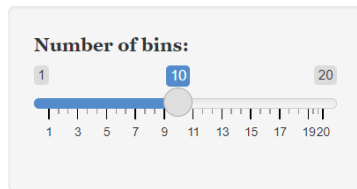
  })

}

# Create Shiny app ----
shinyApp(ui = ui, server = server)

```

Hong Kong Identity



Ex02

```
> runApp('C:/Users/jsnor/OneDrive/Desktop/SCHOOL/UT-Dallas/Courses/EPPS6356-DataVisualization/Assignments/Shiny/ex02.R')
Error in setwd("yourdirectory") : cannot change working directory
> runApp('C:/Users/jsnor/OneDrive/Desktop/SCHOOL/UT-Dallas/Courses/EPPS6356-DataVisualization/Assignments/Shiny/ex02.R')
Error in setwd("yourdirectory") : cannot change working directory
> runApp('C:/Users/jsnor/OneDrive/Desktop/SCHOOL/UT-Dallas/Courses/EPPS6356-DataVisualization/Assignments/Shiny/ex02.R')
Rows: 61 Columns: 6
— Column specification
```

```
Delimiter: ","
chr (1): Date of survey
dbl (5): Hongkonger, Hongkonger in China, Chinese in Hong Kong, Chinese, Mixed Identity
```

```
! Use `spec()` to retrieve the full column specification for this data.
! Specify the column types or set `show_col_types = FALSE` to quiet this message.
Rows: 50 Columns: 4
— Column specification
```

```
Delimiter: ","
chr (2): country, CO2percent
dbl (1): CO2pc
num (1): CO2_kt
```

```
! Use `spec()` to retrieve the full column specification for this data.
! Specify the column types or set `show_col_types = FALSE` to quiet this message.
Rows: 140 Columns: 11
— Column specification
```

```
Delimiter: ","
chr (3): Region, InequalityofOutcomes, GDPPC
dbl (7): AverageLifeExpectancy, AverageWellbeing, HappyLifeYears, Footprint, Inequality-adjustedLifeExp...
num (1): Population
```

```
! Use `spec()` to retrieve the full column specification for this data.
! Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

Listening on http://127.0.0.1:6964

Reactivity

Caption:

Choose a dataset:

Number of observations to view:

Data Summary

```
Date of survey      Hongkonger      Hongkonger in China  Chinese in Hong Kong  Chinese
Length:61          Min.   :0.1810   Min.    :0.1800      Min.    :0.103        Min.    :0.1380
Class :character   1st Qu.:0.2800   1st Qu.:0.2170      1st Qu.:0.133        1st Qu.:0.1810
Mode  :character   Median :0.3550   Median :0.2390      Median :0.150        Median :0.2300
                                Mean  :0.3348   Mean  :0.2439      Mean  :0.152        Mean   :0.2415
                                3rd Qu.:0.3870  3rd Qu.:0.2680      3rd Qu.:0.169        3rd Qu.:0.2930
                                Max.  :0.4560   Max.   :0.3310      Max.   :0.203        Max.   :0.3860

Mixed Identity
Min.   :0.3090
1st Qu.:0.3630
Median :0.3930
Mean   :0.3959
3rd Qu.:0.4270
Max.   :0.4920
```

Date of survey	Hongkonger	Hongkonger in China	Chinese in Hong Kong	Chinese	Mixed Identity
26-27/8/1997	0.35	0.25	0.20	0.19	0.45
23-24/9/1997	0.36	0.24	0.20	0.17	0.44
28-29/10/1997	0.37	0.23	0.20	0.17	0.43
8-9/12/1997	0.36	0.23	0.19	0.18	0.42
3-4/6/1998	0.34	0.19	0.19	0.25	0.37
22-24/6/1998	0.30	0.18	0.16	0.32	0.34
14/8/1998	0.30	0.25	0.20	0.22	0.45
29/9/1998	0.39	0.23	0.15	0.21	0.38
21/12/1998	0.41	0.22	0.15	0.17	0.37
8-9/2/1999	0.41	0.21	0.15	0.18	0.36

i. Can you change the personal font?

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DataVisualization/Assignments/Shiny/ex02.R')
Rows: 61 Columns: 6
— Column specification
```

```
Delimiter: ","
chr (1): Date of survey
dbl (5): Hongkonger, Hongkonger in China, Chinese in Hong Kong, Chinese, Mixed Identity
```

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Rows: 50 Columns: 4
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```
Delimiter: ","
chr (2): country, CO2percent
dbl (1): CO2pc
num (1): CO2_kt
```

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Rows: 140 Columns: 11
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```
Delimiter: ","
chr (3): Region, InequalityofOutcomes, GDPPC
dbl (7): AverageLifeExpectancy, AverageWellbeing, HappyLifeYears, Footprint, Inequality-
adjustedLifeExp...
```

num (1): Population

- ! Use `spec()` to retrieve the full column specification for this data.
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Reactivity

Caption:

Choose a dataset:

Number of observations to view:

Data Summary

	Hongkonger	Hongkonger in China	Chinese in Hong Kong	Chinese
Date of survey				
Length:61	Min. :0.1810	Min. :0.1800	Min. :0.103	Min. :0.1380
Class :character	1st Qu.:0.2800	1st Qu.:0.2170	1st Qu.:0.133	1st Qu.:0.1810
Mode :character	Median :0.3550	Median :0.2390	Median :0.150	Median :0.2300
	Mean :0.3348	Mean :0.2439	Mean :0.152	Mean :0.2415
	3rd Qu.:0.3870	3rd Qu.:0.2680	3rd Qu.:0.169	3rd Qu.:0.2930
	Max. :0.4560	Max. :0.3310	Max. :0.203	Max. :0.3860
Mixed Identity				
Min. :0.3090				
1st Qu.:0.3630				
Median :0.3930				
Mean :0.3959				
3rd Qu.:0.4270				
Max. :0.4920				

Date of survey	Hongkonger	Hongkonger in China	Chinese in Hong Kong	Chinese	Mixed Identity
26-27/8/1997	0.35	0.25	0.20	0.19	0.45
23-24/9/1997	0.36	0.24	0.20	0.17	0.44
28-29/10/1997	0.37	0.23	0.20	0.17	0.43
8-9/12/1997	0.36	0.23	0.19	0.18	0.42
3-4/6/1998	0.34	0.19	0.19	0.25	0.37
22-24/6/1998	0.30	0.18	0.16	0.32	0.34
14/8/1998	0.30	0.25	0.20	0.22	0.45
29/9/1998	0.39	0.23	0.15	0.21	0.38
21/12/1998	0.41	0.22	0.15	0.17	0.37
8-9/2/1999	0.41	0.21	0.15	0.18	0.36

Ex03

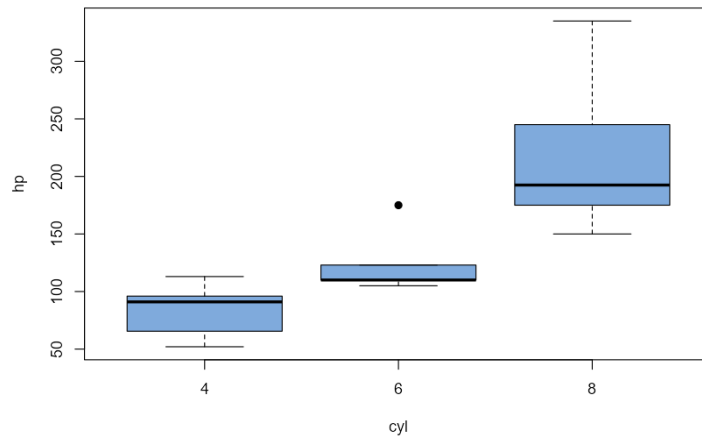
```
> runApp('C:/Users/jsnor/OneDrive/Desktop/SCHOOL/UT-Dallas/Courses/EPPS6356-DataVisualization/Assignments/Shiny/ex03.R')
```

Listening on <http://127.0.0.1:6964>

Horsepower

Variable:
Cylinders
 Show outliers

hp ~ cyl



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```
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```

Listening on <http://127.0.0.1:6964>

Horsepower

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