# Week-8: Code-along and Challenge

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2023-10-09

### Week 8 Code Screenshots

I.

# Screenshot of app

knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-editedcode-ver-9.png")

## My Shiny App

## First level title

### Second level title

### Third level title

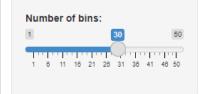
Fourth level title

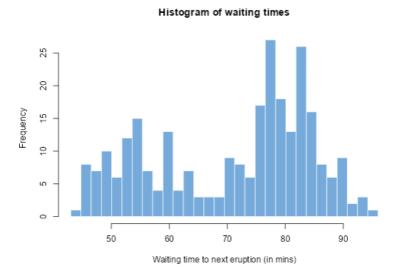
Fifth level title Sixth level title

# Screenshot of app

 $\verb"knitr::include_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-editedcode-ver-0.png")" in the context of the context o$ 

# Hello Shiny!





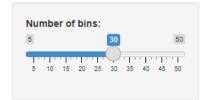
This small Shiny application demonstrates Shiny's automatic UI updates.

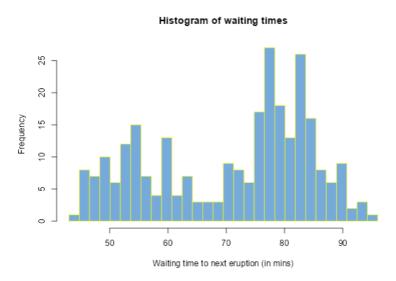
Move the Number of bins slider and notice how the renderPlot expression is automatically re-evaluated when its dependant, input\$bins, changes, causing a histogram with a new number of bins to be rendered.

# Screenshot of results of edited code

knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-editedcode-ver.png")

### Hello World!





#### # Screenshot of different headers

knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-editedcode-ver-1.png")

## My Shiny App

p creates a paragraph of text.

A new p() command starts a new paragraph. Supply a style attribute to change the format.

strong() makes bold text. em() creates italicised (i.e. emphasised) text.

 ${\tt code\ displays\ your\ text\ similar\ to\ computer\ code}$ 

div creates segments of text with a similar style. This division of text is all blue and oops i cant see anything else from the slide

span does the same thing as div, but it works with groups of words that appear inside a paragraph.

###. Okay I dont know why, but my R Studio image will not pop up. However, there is a box indicative that an image should be there, so is that okay?

# Image in the main panel

knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-editedcode-ver-3.png")

## My Shiny App

p creates a paragraph of text.

A new p() command starts a new paragraph. Supply a style attribute to change the format.

strong() makes bold text. em() creates italicised (i.e. emphasised) text.

code displays your text similar to computer code

div creates segments of text with a similar style. This division of text is all blue because I passed the argument 'style = color:blue' to div

span does the same thing as div, but it works with groups of words that appear inside a paragraph.



#### # Image in the side panel

knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-editedcode-ver-2.png")

### My Shiny App



p creates a paragraph of text.

A new p() command starts a new paragraph. Supply a style attribute to change the format.

strong() makes bold text. em() creates italicised (i.e. emphasised) text.

code displays your text similar to computer code

div creates segments of text with a similar style. This division of text is all blue because I passed the argument 'style = color:blue' to div

span does the same thing as div, but it works with groups of words that appear inside a paragraph.

### II. Challenge

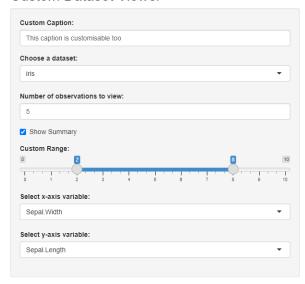
I ran example 3 and made the following changes:

- 1. I changed the data sets to iris and airquality.
- 2. I added the feature of plotting graphs based on the variables within the data set, with the user being able to pick which variables they want to plot against each other in the form of a scatter plot.

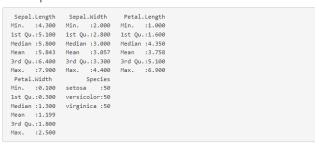
3. I also added a feature where a unique image for each dataset will be displayed if you pick a particular one; the iris dataset will show an image of an iris, while the airquality will yield a picture of a car's smoking exhaust pipe. Here are the screenshots!

# This is an example of iris data set.
knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-iris-upperhalf.png")

#### **Custom Dataset Viewer**



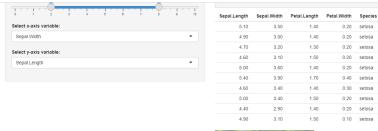
#### This caption is customisable too



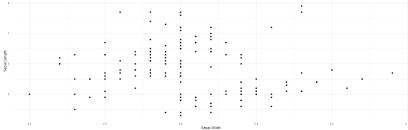
Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.10	3.50	1.40	0.20	setosa
4.90	3.00	1.40	0.20	setosa
4.70	3.20	1.30	0.20	setosa
4.60	3.10	1.50	0.20	setosa
5.00	3.60	1.40	0.20	setosa
5.40	3.90	1.70	0.40	setosa
4.60	3.40	1.40	0.30	setosa
5.00	3.40	1.50	0.20	setosa
4.40	2.90	1.40	0.20	setosa
4.90	3.10	1.50	0.10	setosa



knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-iris-lowerhalf.png")



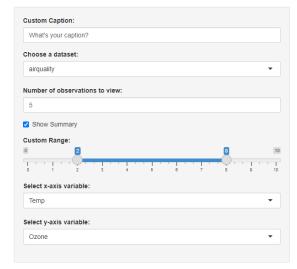




# This is an example of airquality data set.

knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-air-upperhalf.png")

#### **Custom Dataset Viewer**



#### What's your caption?

0.20 setosa

0.20 setosa

0.40 setosa

0.30 setosa

0.20 setosa

0.20 setosa

0.10 setosa

Ozone Solar.R Min. : 1.00 Min. : 7.0 1st Qu.: 18.00 1st Qu.:115.8 Median : 31.50 Median :205.0 Mean : 42.13 Mean :185.9 3rd Qu.: 63.25 3rd Qu.:258.8 Month Day
Min. :5.000 Min. : 1.0
1st Qu.:6.000 1st Qu.: 8.0
Median :7.000 Median :16.0
Mean :6.993 Mean :15.8 3rd Qu.:8.000 3rd Qu.:23.0 Max. :9.000 Max. :31.0

Ozone	Solar.R	Wind	Temp	Month	Day
8	19	20.10	61	5	9
7	NA	6.90	74	5	11
6	78	18.40	57	5	18
4	25	9.70	61	5	23
7	48	14.30	80	7	15
7	49	10.30	69	9	24
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA

### knitr::include\_graphics("C:/Users/yeojy/Pictures/Screenshots/r-app-air-lowerhalf.png")

6	78	18.40	57	5	18
4	25	9.70	61	5	23
7	48	14.30	80	7	15
7	49	10.30	69	9	24
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA



