“R Exercises Session 8”

Edwina Luc

6/29/2020

1. Create a level 2 header below in Markdown with the name “Answer 1”.

## “Answer 1”

1. Add an unordered Markdown list of your favorite food dishes and add their ingredients as sub-items in the list. You should enter at least two dishes with two ingredients each.

# Favorite Food

* Pasta
  + Gouda Cheese
  + Meat Balls
* Black Rice
  + Shrimps
  + Mushrooms

1. Add an R code chunk below. Show the summary of the Orange dataset. Run a linear regression using the lm function to predict circumference from age and assign the result. Show the summary of the fit object that you assigned.

summary(Orange)

## Tree age circumference   
## 3:7 Min. : 118.0 Min. : 30.0   
## 1:7 1st Qu.: 484.0 1st Qu.: 65.5   
## 5:7 Median :1004.0 Median :115.0   
## 2:7 Mean : 922.1 Mean :115.9   
## 4:7 3rd Qu.:1372.0 3rd Qu.:161.5   
## Max. :1582.0 Max. :214.0

fitted.Orange <- lm(circumference ~ age, data = Orange)  
summary(fitted.Orange)

##   
## Call:  
## lm(formula = circumference ~ age, data = Orange)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -46.310 -14.946 -0.076 19.697 45.111   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 17.399650 8.622660 2.018 0.0518 .   
## age 0.106770 0.008277 12.900 1.93e-14 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 23.74 on 33 degrees of freedom  
## Multiple R-squared: 0.8345, Adjusted R-squared: 0.8295   
## F-statistic: 166.4 on 1 and 33 DF, p-value: 1.931e-14

1. Add a RMarkdown format link below to your favorite R reference website.

[Rstudio cheatsheets](https://rstudio.com/resources/cheatsheets/)

1. Replace the author field in the yaml header with your name and then successfully knit the RMarkdown document into a Word document.

title: ‘“R Exercises Session 8”’

author: “Edwina Luc”

date: “6/29/2020” output: word\_document

1. Follow the instructions at <https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/creating-a-pull-request-from-a-fork> to submit your assignment via GitHub.