R version 4.0.2 (2020-06-22) -- "Taking Off Again"

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Platform: x86\_64-apple-darwin17.0 (64-bit)

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Natural language support but running in an English locale

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Type 'demo()' for some demos, 'help()' for on-line help, or

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Type 'q()' to quit R.

> library(ggplot2)

> theme\_set(theme\_minimal())

> setwd("/Users/binayprasannajena/Documents/GitHub/dsc520/")

> heights\_df <- read.csv("data/r4ds/heights.csv")

> ggplot(heights\_df, aes(x=sex, y=earn)) + geom\_point()+ geom\_boxplot()

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/01-sex-vs-earn-JenaBinay.png")

Saving 10.5 x 8.15 in image

> ggplot(heights\_df, aes(x=race, y=earn)) + geom\_point()+ geom\_boxplot()

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/02-race-vs-earn-JenaBinay.png")

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> ggplot(heights\_df, aes(sex)) + geom\_bar()

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/03-sex-bar-chart-JenaBinay.png")

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> ggplot(heights\_df, aes(race)) + geom\_bar()

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/04-race-bar-chart-JenaBinay.png")

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> ggplot(heights\_df, aes(race)) + geom\_bar()

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/05-horizontal-race-bar-chart-JenaBinay.png")

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> covid\_df <- read.csv("data/nytimes/covid-19-data/us-states.csv")

> covid\_df$date <- as.Date(covid\_df$date)

> california\_df <- covid\_df[ which( covid\_df$state == "California"), ]

> ny\_df <- covid\_df[ which( covid\_df$state == "New York"), ]

> florida\_df <- covid\_df[ which( covid\_df$state == "Florida"), ]

> ggplot(data=florida\_df, aes(x=date, y=cases, group=1)) + geom\_line()

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/06-florida-cases-JenaBinay.png")

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> ggplot(data=florida\_df, aes(x=date, group=1)) +

+ geom\_line(aes(y = cases)) +

+ geom\_line(data=california\_df, aes(y = cases)) +

+ geom\_line(data=ny\_df, aes(y = cases))

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/07-all-cases-JenaBinay.png")

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> ggplot(data=florida\_df, aes(x=date, group=1)) +

+ geom\_line(aes(y = cases), color = 'darkred') +

+ geom\_line(data=ny\_df, aes(y = cases), color='darkgreen') +

+ geom\_line(data=california\_df, aes(y = cases), color='steelblue')

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/08-all-cases-colors-JenaBinay.png")

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> ggplot(data=florida\_df, aes(x=date, group=1)) +

+ geom\_line(aes(y = cases, colour = "Florida")) +

+ geom\_line(data=ny\_df, aes(y = cases,colour="New York")) +

+ geom\_line(data=california\_df, aes(y = cases, colour="California")) +

+ scale\_colour\_manual("",

+ breaks = c('Florida','New York','California'),

+ values = c('darkred','darkgreen','steelblue')) +

+ xlab(" ") + ylab("Cases")

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/09-all-cases-colors-legend-JenaBinay.png")

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> ggplot(data=florida\_df, aes(x=date, group=1)) +

+ geom\_line(aes(y = cases, colour = "Florida")) +

+ geom\_line(data=ny\_df, aes(y = cases,colour="New York")) +

+ geom\_line(data=california\_df, aes(y = cases, colour="California")) +

+ scale\_colour\_manual("",

+ breaks = c('Florida','New York','California'),

+ values = c('darkred','darkgreen','steelblue')) +

+ xlab(" ") + ylab("Cases") + scale\_y\_log10()

> ggsave("/Users/binayprasannajena/Documents/GitHub/dsc520/completed/assignment04/plots/10-all-cases-log-JenaBinay.png")

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>

NOTE: The plots are present in corresponding “plots” folder of GitHub, also attached as part of submission