Session 9

Batool Almarzouq

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## Libraries

library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.1 ──

## ✔ ggplot2 3.3.6 ✔ purrr 0.3.4  
## ✔ tibble 3.1.7 ✔ dplyr 1.0.9  
## ✔ tidyr 1.2.0 ✔ stringr 1.4.0  
## ✔ readr 2.1.2 ✔ forcats 0.5.1

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()

library(gapminder)  
library(here)

## here() starts at /Users/batool/Documents/from-Zero-to-hero-in-r

## plotting

plot\_gapminder <- gapminder %>%   
 ggplot(aes(x = log(gdpPercap), y = lifeExp, col = year, size = pop)) +  
 geom\_point(alpha = 0.3) +  
 geom\_smooth(method = lm) +  
 facet\_wrap( ~ continent, scales = "free") +  
 theme\_bw()

### Saving plots

ggsave(here("results","gapminder\_plt.png"), plot\_gapminder, height = 20, dpi = 300)

## Saving 5 x 20 in image

## `geom\_smooth()` using formula 'y ~ x'

gapminder\_data <- gapminder

#write\_csv(gapminder\_data, "gapminder\_data.csv")

#write\_csv(gapminder\_data, here("results", "gapminder\_data.csv"))