

# Session 9

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## Libraries

```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

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

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x 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 6.5 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"))
```