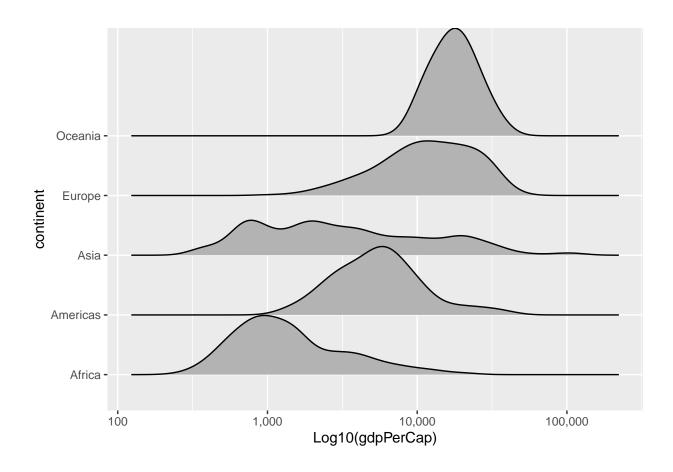
## hw03 Tasks 1-3

## Task 1: Get the maximum and minimum of GDP per capita for all continents

Africa       241.1659       21951.2         Americas       1201.6372       42951.6         Asia       331.0000       113523.1         Europe       973.5332       49357.1			
Americas       1201.6372       42951.6         Asia       331.0000       113523.1         Europe       973.5332       49357.1	continent	min_gdpPercap	max_gdpPercap
Asia 331.0000 113523.1 Europe 973.5332 49357.1	Africa	241.1659	21951.21
Europe 973.5332 49357.1	Americas	1201.6372	42951.65
	Asia	331.0000	113523.13
Oceania 10039.5956 34435.3	Europe	973.5332	49357.19
	Oceania	10039.5956	34435.37

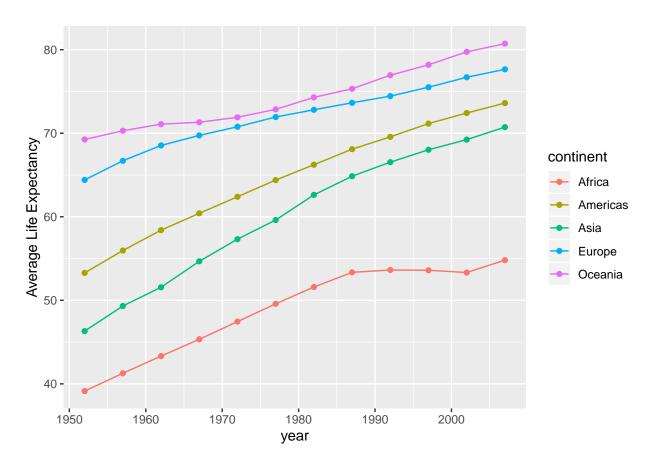
## Task 2: Look at the spread of GDP per capita within the continents

```
gapminder %>%
  ggplot(aes(gdpPercap, continent)) + # specify x and y aesthetics
  scale_x_log10(label = scales::comma_format()) + # log transform and label in comma format
  ggridges::geom_density_ridges() + # add ridges layer to plot
  xlab("Log10(gdpPerCap)") # modify x axis label
```



Task 3: Changes in life expectancy over time on different continents

```
gapminder %>%
  group_by(continent, year) %>% # group rows into chunks by continent and year
  summarise(average_lifeExp = mean(lifeExp)) %>% # average life expectancies for each continent
  ggplot(aes(year, average_lifeExp, color = continent)) + # specify the x and y aesthetics
  geom_point() + # create points for each data point
  geom_line() + # connect the data points via a line
  ylab("Average Life Expectancy") # modify the y axis label
```



gapminder %>%
ggplot(aes(year, lifeExp, color = continent, group = country)) + # specifiy x, y, color, and group ae
facet\_wrap(~continent, nrow = 1) + # create multiple panels
geom\_point(alpha = 0.5) + # create data points with 50% transparency
geom\_line(alpha = 0.5) + # connect the data points via a line with 50% transparency
theme(legend.position = "bottom") # move the legend to the bottom of the plot

