

# Combined Example

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```
## Step1: Load packages
```

```
library(tidyverse)
library(gapminder)
library(knitr)
library(kableExtra)
```

```
## Step 2: Import data
```

```
gap_raw <- gapminder
lookup <- country_codes
```

```
## Step 3: join look up
```

```
gap_joined <- gap_raw %>%
  left_join(lookup)
```

```
## Joining, by = "country"
```

```
## Step 4: Explore: Table
```

```
gap_joined %>%
  filter(continent == "Asia") %>%
  group_by(year) %>%
  summarise(avg_life_exp = mean(lifeExp)) %>%
  kable(col.names = c("Year", "Average Life Expectancy"),
        digits = 3) %>%
  kable_classic(full_width = F)
```

Year	Average Life Expectancy
1952	46.314
1957	49.319
1962	51.563
1967	54.664
1972	57.319
1977	59.611
1982	62.618
1987	64.851
1992	66.537
1997	68.021
2002	69.234
2007	70.728

### ## Step 5: Explore: Plot

```
gap_joined %>%  
  group_by(continent, year) %>%  
  summarise(avg_life_exp = mean(lifeExp)) %>%  
  ggplot(aes(x= year, y = avg_life_exp, fill = continent)) +  
  geom_col(position = "dodge") +  
  labs(x = "Year", y = "Average Life Expectancy", title = "Average Life Expectancy") +  
  theme_bw()
```

