Gapminder Exploration

Dan Hadley

9/17/2019

1. Overview

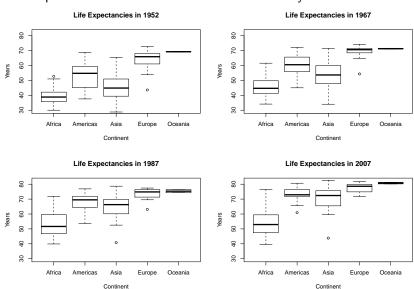
- ▶ The gapminder dataset contains life expectancy, population, and GDP per capita data for 142 countries
- Data was collected every 5 years from 1952 to 2007
- ▶ The complete gapminder data set has 1704 observations.

2. Analysis

- ► Africa has 624 observations, 276 more than the next continent, Asia
- ► Across all countries, GDP per capita ranges from 24 USD to 624 USD
- ► The mean (7215.3270812) is twice as large as the median (3531.8469885)
- ▶ GDP per capita data has a large positive skew.

3 Life Expectancy by Continent

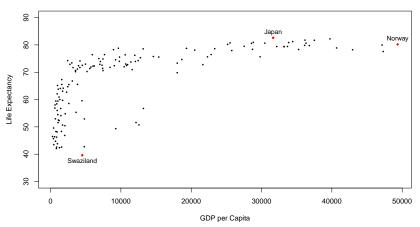
Life expectancies of Asian countries have steadily increased



4 Life Expectancy and GDP per Capita in 2007

- ► Longest life expectancy: Japan (82.6 years)
- ► Highest GDP per capita: Norway (US\$49357.19)
- ► Shortest life expectancy: Swaziland (39.6 years)

Plot of 2007 Life Expectancy against 2007 GDP per Capita



5 Life Expectancy and GDP per Capita for Canada

- Life expectancy and GDP per capita for Canada have both increased over time
- The relationship has been approximately linear

Data for Canada from 1952 thru 2007

