R-DATA-WRANG SOLUTIONS

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2/22/2017

setwd("/Users/evanmuzzall/Desktop/r-data-wrang/")  
require(dplyr)

## Loading required package: dplyr

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

require(tidyr)

## Loading required package: tidyr

gapminder <- read.csv("data/gapminder-FiveYearData.csv", stringsAsFactors = TRUE)  
  
## 1 ##  
gap\_median\_lifeExp <- gapminder %>%  
 group\_by(continent) %>%  
 summarize(med\_lifeExp = median(lifeExp))  
  
## 2 ##   
gapminder\_pop\_continent <- gapminder %>%  
 group\_by(continent, year) %>%  
 mutate(continent\_pop = sum(pop))  
  
## 3 ##  
gap\_rel\_gdp <- gapminder %>%  
 group\_by(continent, year) %>%  
 mutate(gdpPercap\_diff = gdpPercap - mean(gdpPercap)) %>%  
 ungroup() %>%  
 arrange(desc(gdpPercap\_diff))  
  
## 4 ##  
gap\_wider <- gap\_rel\_gdp %>%   
 select(country, year, gdpPercap\_diff) %>%   
 spread(year, gdpPercap\_diff)  
  
# 5  
gap\_super\_long <- gap\_wider %>%   
 gather(year, gdpPercap\_diff, 2:length(names(gap\_wider)))