

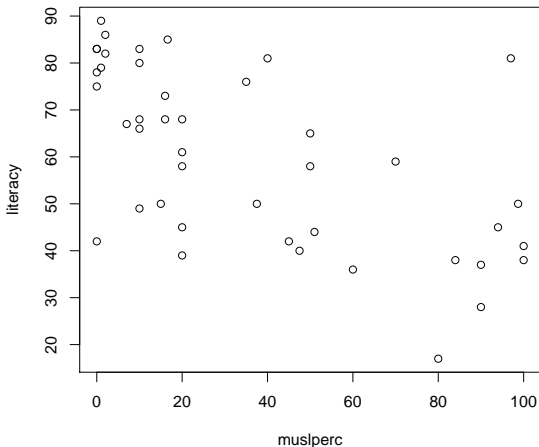
# PLSC 502 – Autumn 2016

## Bivariate and Multivariate Graphics

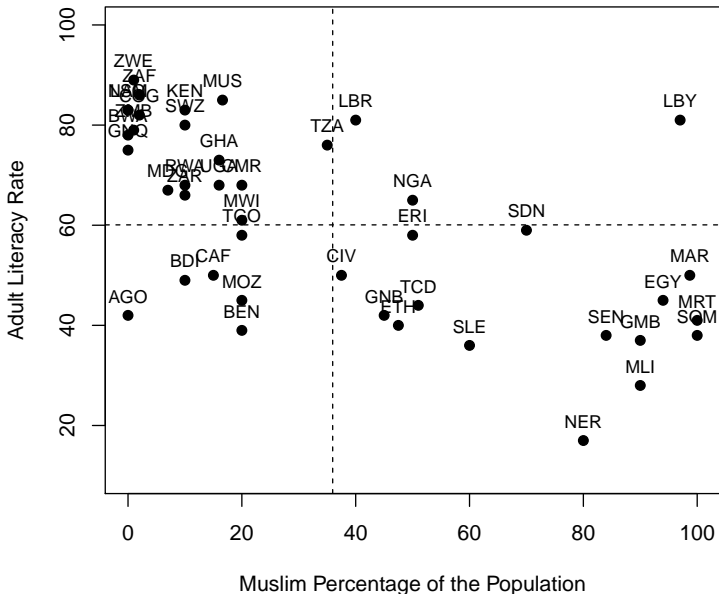
September 8, 2016

# Continuous Data: Scatterplots

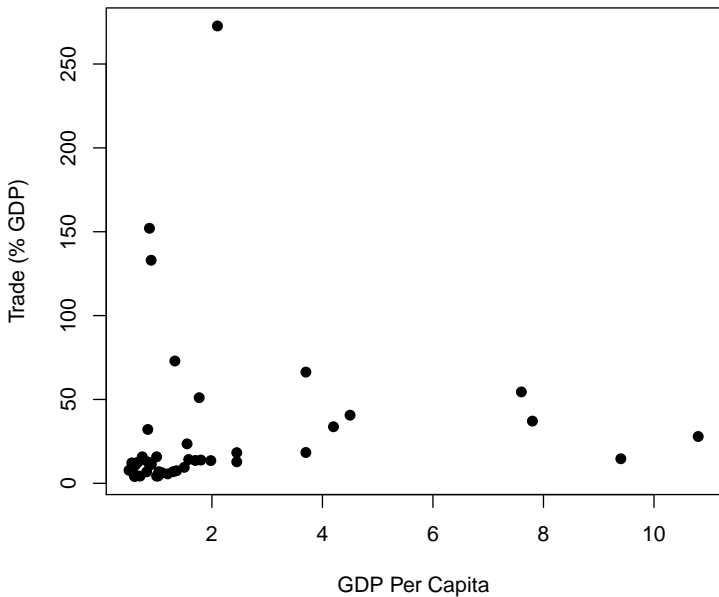
```
> with(Africa, plot(muslperc,literacy))
```



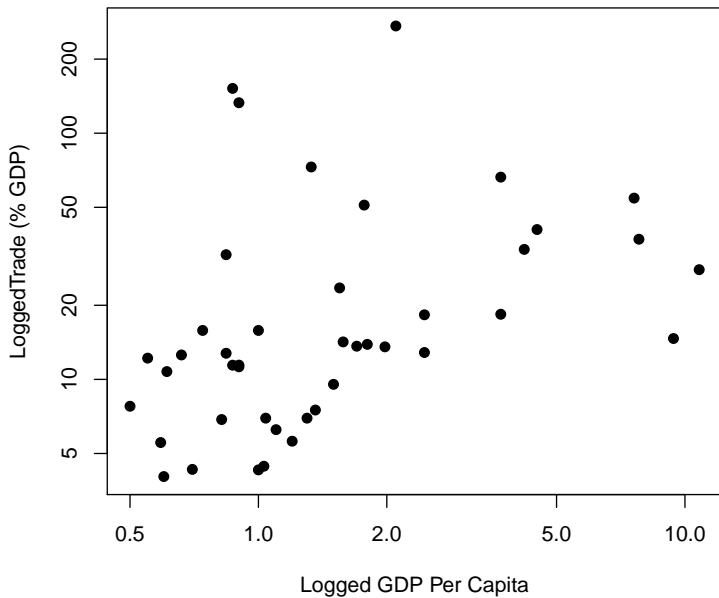
# A Better Scatterplot



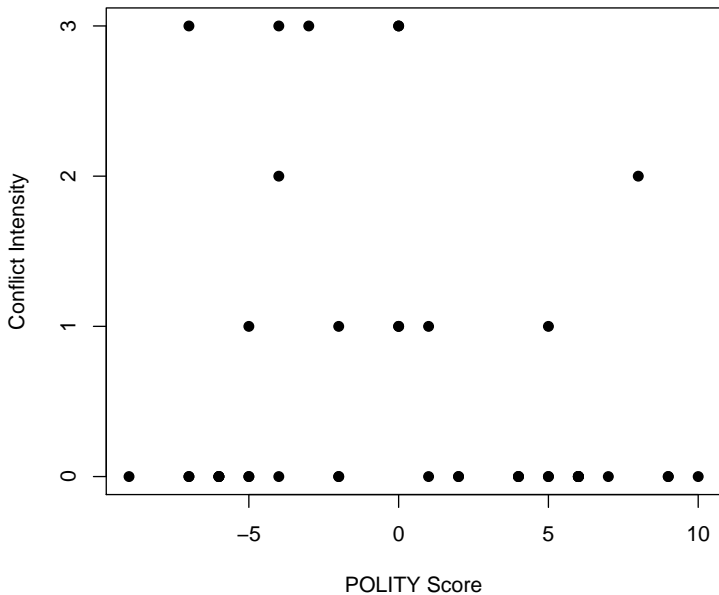
# Skewed Data: Trade and GDP



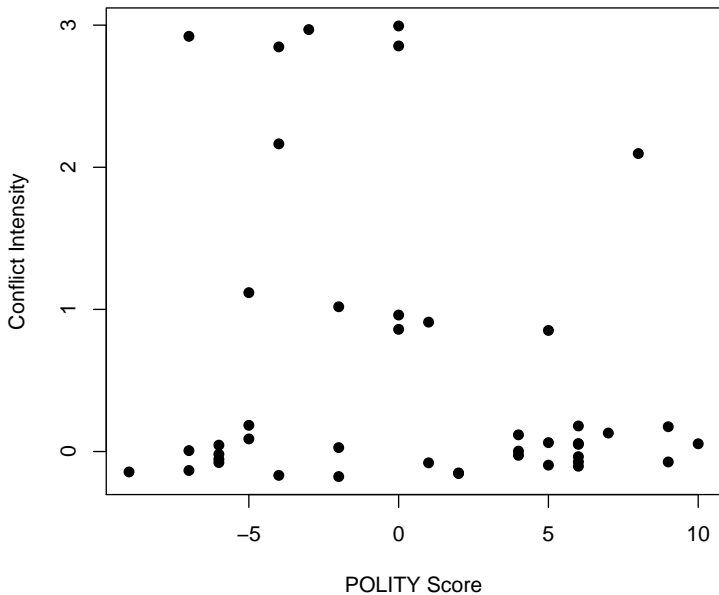
# Log-Scale Axes



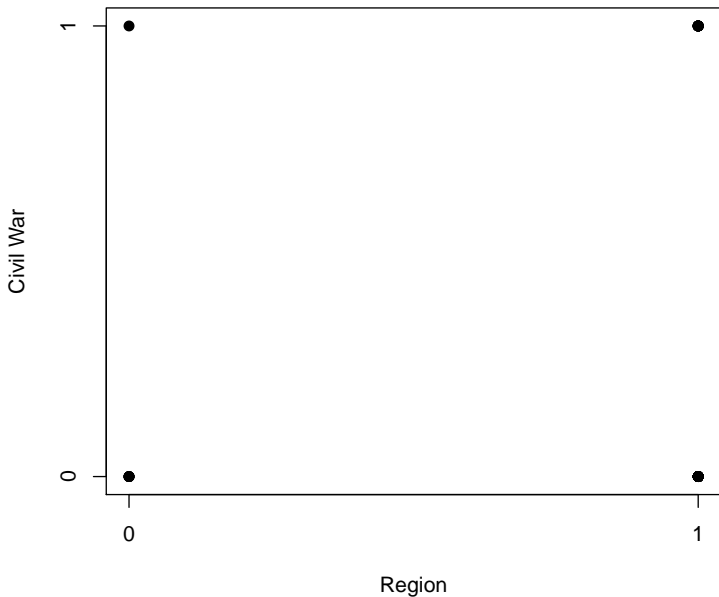
# “Binned” Data: Conflict Intensity and Democracy



## “Jittering” Binned Data



# How Not To Draw A Scatterplot



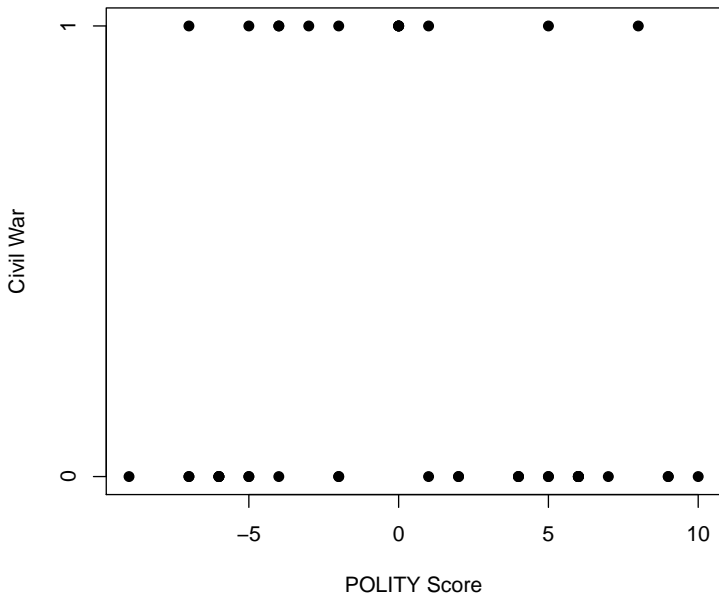


## Binary Data = Tables

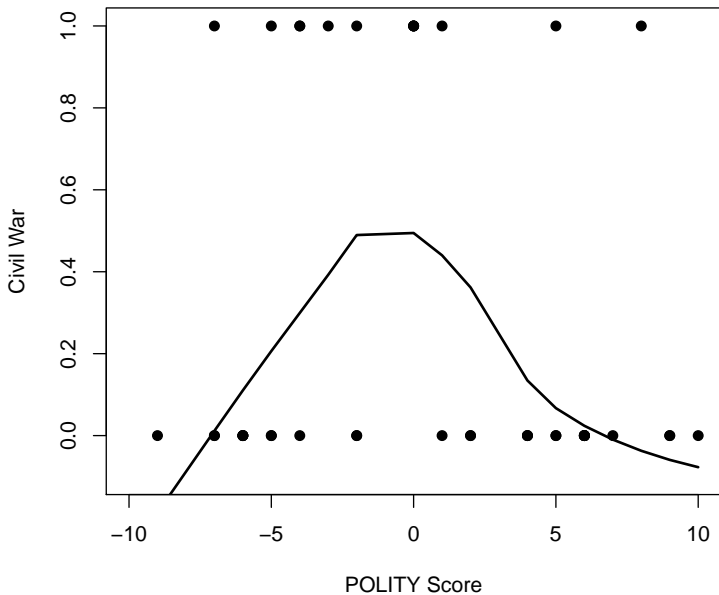
```
> with(Africa,  
       xtabs(~subsaharan+internalwar))
```

	internalwar	
subsaharan	0	1
Not Sub-Saharan	5	1
Sub-Saharan	25	12

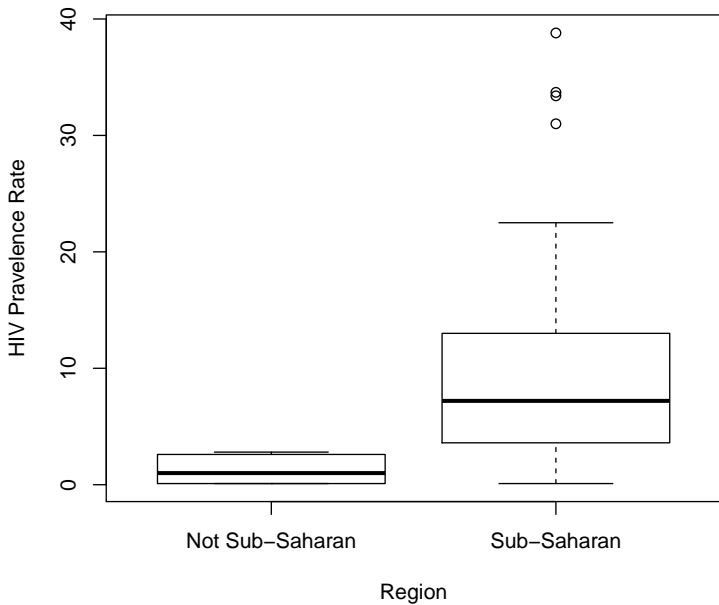
# Mixed Binary-Continuous



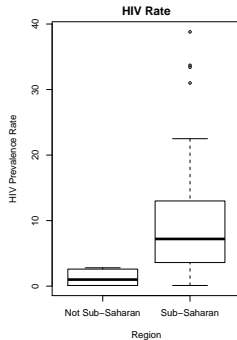
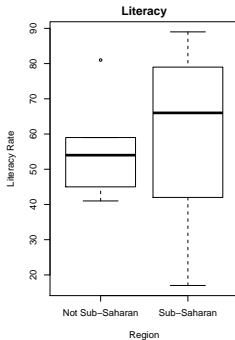
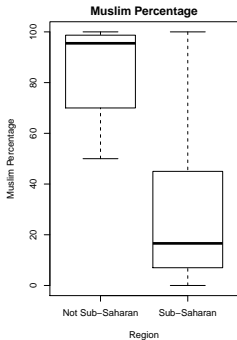
# "Lowess" Smoothed Plot



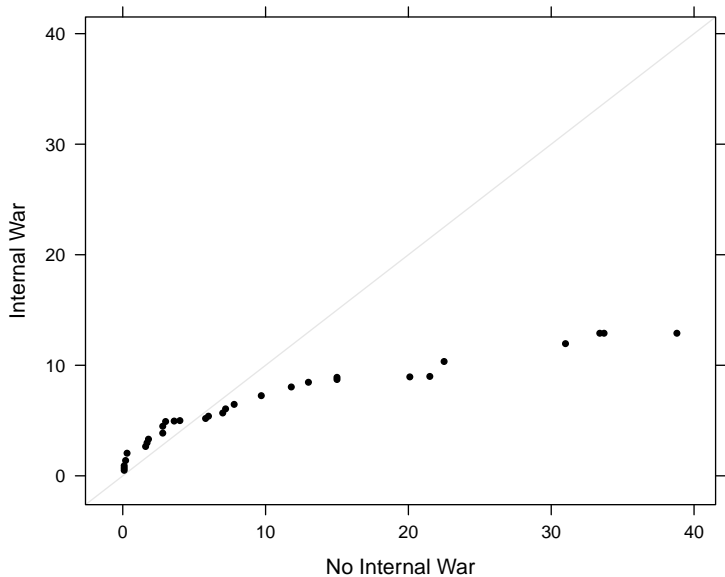
# Conditioned Boxplots



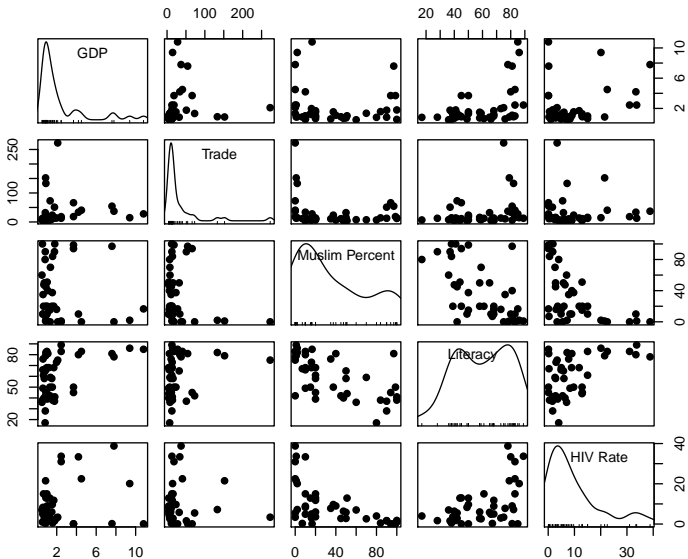
# Multiple Conditioned Boxplots



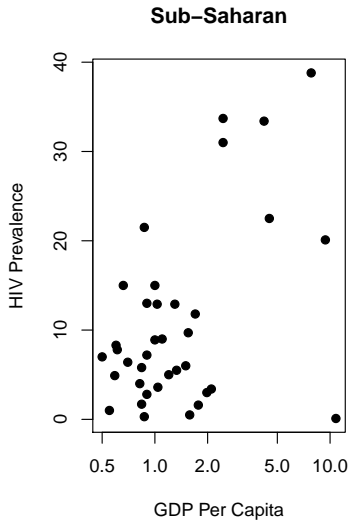
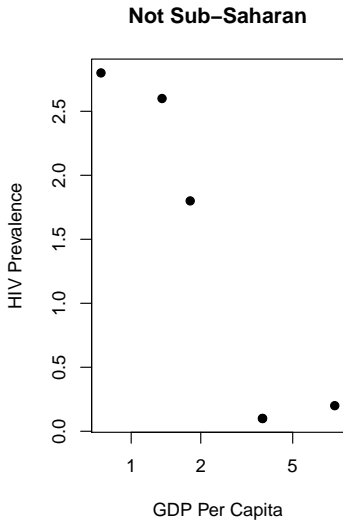
# Empirical Q-Q Plots



# Scatterplot Matrix

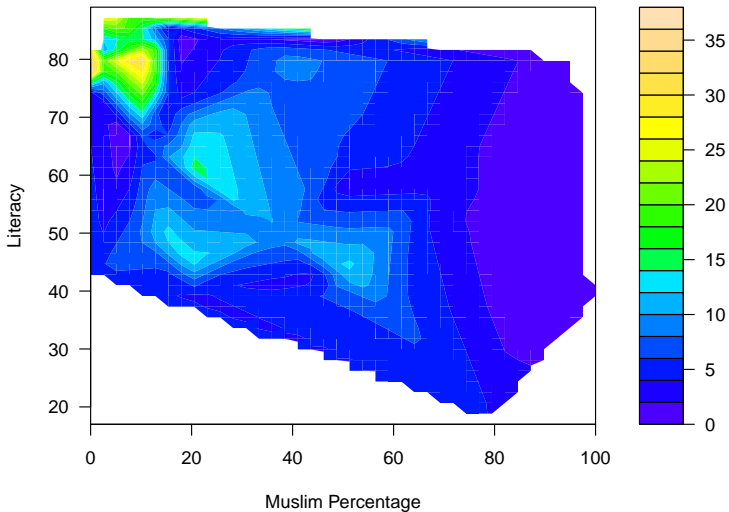


# Conditional Scatterplots

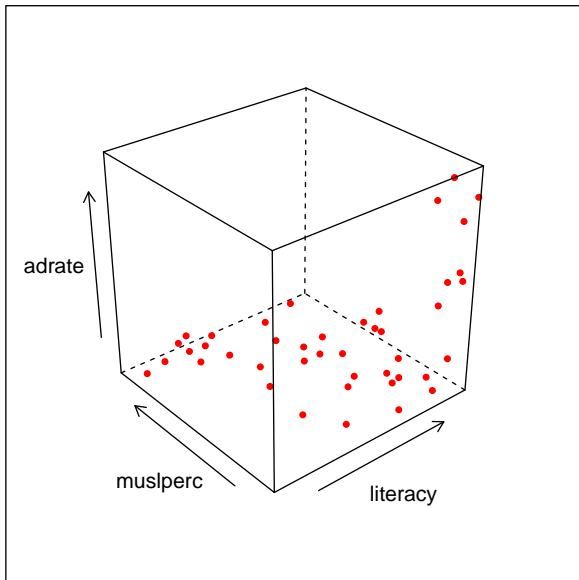




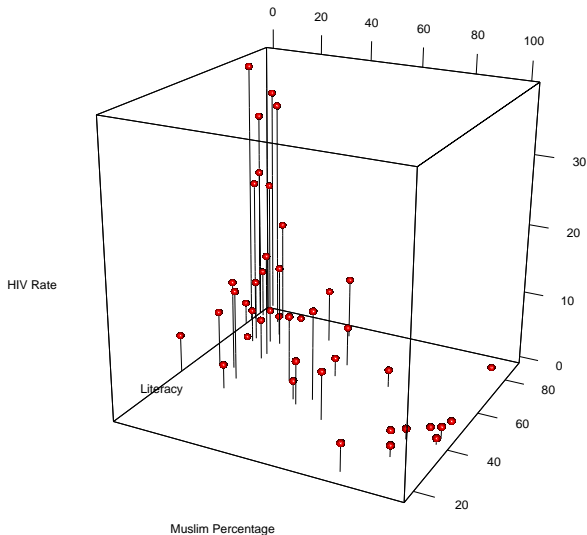
# Contour Plot



# “3-D” Scatterplot



# Interactive 3-D Scatterplot



# “Four-Way” Scatterplots

