## **Untitled**

#### Introduction to R for Public Health Researchers

- · I am a section
  - I am a subsection

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com (http://rmarkdown.rstudio.com). **bold** *italicize* When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
library(stringr)
library (plyr)
library (pander)
bl = read.csv("http://johnmuschelli.com/intro to r/data/Bike Lanes.csv", as.is =TRUE)
b12 = b1
bl2$numLanes = factor(bl2$numLanes)
mod2 = lm(length ~ numLanes, data = b12)
mod = lm(length ~ factor(numLanes), data = bl)
smod = summary(mod)
ci = confint(mod)
mat = cbind(smod$coefficients[, "Estimate"], ci)
mat = data.frame(mat)
colnames(mat) = c("Beta", "Lower", "Upper")
mat$CI = paste0("(", round(mat$Lower, 2),
                ", ", round(mat$Upper, 2), ")")
mat = mat[, c("Beta", "CI")]
mat$Variable = rownames(mat)
rownames(mat) = NULL
mat$Variable = str replace(mat$Variable, fixed("factor(numLanes)"), "Number of Lanes: ")
mat = mat[, c("Variable", "Beta", "CI")]
mat$Variable = plyr::revalue(mat$Variable, c("(Intercept)" = "B0"))
```

### I am a section

# Processing math: 100% am a subsection

pander	(mat.	)
panaci	(Inac	,

Variable	Beta	CI
В0	308.4	(189.53, 427.22)
Number of Lanes: 1	-30.48	(-150.7, 89.75)
Number of Lanes: 2	-50.83	(-171.42, 69.76)

pander(smod)

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	308.4	60.59	5.09	4.006e-07
factor(numLanes)1	-30.48	61.29	-0.4972	0.6191
factor(numLanes)2	-50.83	61.48	-0.8267	0.4085

Fitting linear model: length ~ factor(numLanes)

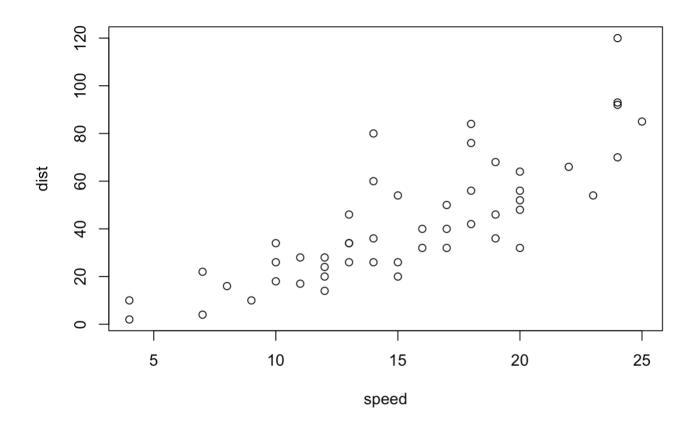
Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>	
1631	277.7	0.001564	0.0003378	

pander (mod)

Fitting linear model: length ~ factor(numLanes)

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	308.4	60.59	5.09	4.006e-07
factor(numLanes)1	-30.48	61.29	-0.4972	0.6191
factor(numLanes)2	-50.83	61.48	-0.8267	0.4085

You can also embed plots, for example:



#### My number of cars are 50.

```
pvals =smod$coefficients[, "Pr(>|t|)"]
pvals = ifelse(pvals < 0.001, "< 0.001", round(pvals, 2))</pre>
```

The beta coefficient was significant (308.3767969, p < 0.001)

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.