ESSENTIAL R SYNTAX

LOAD PACKAGES

rflip(10) rflip(10, prob=0.3) $x \leftarrow rflip(10, prob=0.3)$

require(mosaic) require(mosaicData)

Function & arguments:

Optional arguments:

Assignment:

FORMULA INTERFACE Used for graphics, statistics, inference, and mod-

eling operations.

 $(\mid y \mid \sim \mid x \mid, data = \mid mydata)$ goal |

tally(homeless sex, data=HELPrct)

Read as: Calculate goal using mydata for y "broken down" by x, or "modeled by" x. Examples:

mean(age~homeless, data=HELPrct) homeless housed

36.4 35.0

quantile(age~sex,data=HELPrct,p=c(.2,.8)) .group 20% 80% 1 female 30 42.8

2 male 29 41.0

sex female male homeless

homeless 0.374 0.488 housed 0.626 0.512

RMARKDOWN DOCUMENTS

```
title: "Homework #3"
author: "Abby Seedief"
date: "January 7, 2015"
output: pdf_document
```{r include=FALSE}
require(mosaic)
require(mosaicData)
Problem 1
Build a model of wage as a function of sex, adjusting for relevant covariates.
{r}
lm(wage - sex + exper, data=CPS85)
Problem 2
```

Show whether the covariate is related to sex.

bwplot(exper - sex, data=CPS85)

Homework #3 Abby Seedief exwery 7, 2015 2+3H 2-1960 ados 20

Compile to any of HTML, PDF, or Word.

See mosaic plain template through RStudio menu: FILE/NEW FILE/RMARKDOWN/FROM TEMPLATE