Kable

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library(MASS)  
library(plyr)  
str(birthwt)

## 'data.frame': 189 obs. of 10 variables:  
## $ low : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ age : int 19 33 20 21 18 21 22 17 29 26 ...  
## $ lwt : int 182 155 105 108 107 124 118 103 123 113 ...  
## $ race : int 2 3 1 1 1 3 1 3 1 1 ...  
## $ smoke: int 0 0 1 1 1 0 0 0 1 1 ...  
## $ ptl : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ ht : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ ui : int 1 0 0 1 1 0 0 0 0 0 ...  
## $ ftv : int 0 3 1 2 0 0 1 1 1 0 ...  
## $ bwt : int 2523 2551 2557 2594 2600 2622 2637 2637 2663 2665 ...

# Assign better variable names  
colnames(birthwt) <- c("birthwt.below.2500", "mother.age", "mother.weight",   
 "race", "mother.smokes", "previous.prem.labor", "hypertension", "uterine.irr",   
 "physician.visits", "birthwt.grams")  
  
# Assign better labels to categorical variables  
birthwt <- transform(birthwt,   
 race = as.factor(mapvalues(race, c(1, 2, 3),   
 c("white","black", "other"))),  
 mother.smokes = as.factor(mapvalues(mother.smokes,   
 c(0,1), c("no", "yes"))),  
 hypertension = as.factor(mapvalues(hypertension,   
 c(0,1), c("no", "yes"))),  
 uterine.irr = as.factor(mapvalues(uterine.irr,   
 c(0,1), c("no", "yes"))),  
 birthwt.below.2500 = as.factor(mapvalues(birthwt.below.2500,  
 c(0,1), c("no", "yes")))  
 )

library(knitr)  
kable(with(birthwt, tapply(birthwt.grams, INDEX = list(race, mother.smokes), FUN=mean)), format = "markdown")

|  |  |  |
| --- | --- | --- |
|  | no | yes |
| black | 2854.500 | 2504.000 |
| other | 2815.782 | 2757.167 |
| white | 3428.750 | 2826.846 |

boxplot(with(birthwt, aggregate(birthwt.grams, by=list(race,mother.smokes), FUN=mean)))

