```r
#Load the raw data
rawData<-read.csv("Week 3/Raw Data/Week 3 Example Data.csv")


#Create a copy of the raw data to trace back and compare
data<-rawData
```

```r
colnames(data)[6:15]<-paste0("tipi",
                             rep(c("E","A","C","N","O"),2),
                             1:10)

#Append an R to reverse coded items
colnames(data)[c(7,11,13:15)]<-paste0(colnames(data)[c(7,11,13:15)],"R")


###Restructure variables###


#Split the condition variable into two columns
conditionSplit<-str_split_fixed(data$condition,"_",2)


#Rename the newly conditioned variables
colnames(conditionSplit)<-c("shockCause","pMoral")

#Add the split columns back to the data
data<-cbind(data,conditionSplit)

data<-data[,-4]

data$guilt<-ifelse(data$guilt==-99,NA,data$guilt)
```

```r
data[,c(6,10,12:14)]<-(-1*data[,c(6,10,12:14)])+8


#compute composite personality scores
data$extra<-rowMeans(data[,c(5,10)])

data$extra<-rowMeans(data[,c(5,10)])
data$agree<-rowMeans(data[,c(6,11)])
data$consc<-rowMeans(data[,c(7,12)])
data$neuro<-rowMeans(data[,c(8,13)])
data$open<-rowMeans(data[,c(9,14)])
```

```r
#Rearrange
data<-data[,c(1:3,5:14,20:24,4,18:19,15:17)]

codebook<-data.frame("variable"=colnames(data))

codebook$description<-c(
  "Participant ID Number",
  "Participant Sex",
  "Age",
```

```
  "TIPI Extraversion 1",
  "TIPI Agreeableness 1 (R)",
  "TIPI Conscientiousness 1",
  "TIPI Neuroticism 1",
  "TIPI Openness 1",
  "TIPI Extraversion 2 (R)",
  "TIPI Agreeableness 2",
  "TIPI Conscientiousness 2 (R)",
  "TIPI Neuroticism 2 (R)",
  "TIPI Openness 2 (R)",
  "Composite Extraversion",
  "Composite Agreeableness",
  "Composite Conscientiousness",
  "Composite Neuroticism",
  "Composite Openness",
  "Shock Voltage",
  "Shock Cause (participant vs. partner)",
  "Partner Morality (good vs. bad)",
  "Amount of $ Shared with Partner (pre-shock)",
  "Amount of $ Shared with Partner (post-shock)",
  "Guilt"


)

#Save the data type for each variable
codebook$type<-sapply(data,class)

#Output the codebook as a table
kable(codebook)
```

variable	description	type
PIN	Participant ID Number	integer
sex	Participant Sex	character
age	Age	integer
tipiE1	TIPI Extraversion 1	integer
tipiA2R	TIPI Agreeableness 1 (R)	numeric
tipiC3	TIPI Conscientiousness 1	integer
tipiN4	TIPI Neuroticism 1	integer
tipiO5	TIPI Openness 1	integer
tipiE6R	TIPI Extraversion 2 (R)	numeric
tipiA7	TIPI Agreeableness 2	integer
tipiC8R	TIPI Conscientiousness 2 (R)	numeric
tipiN9R	TIPI Neuroticism 2 (R)	numeric
tipiO10R	TIPI Openness 2 (R)	numeric
extra	Composite Extraversion	numeric
agree	Composite Agreeableness	numeric
consc	Composite Conscientiousness	numeric
neuro	Composite Neuroticism	numeric
open	Composite Openness	numeric
shock	Shock Voltage	character
shockCause	Shock Cause (participant vs. partner)	character

variable	description	type
pMoral	Partner Morality (good vs. bad)	character
preShare	Amount of $ Shared with Partner (pre-shock)	integer
postShare	Amount of $ Shared with Partner (post-shock)	integer
guilt	Guilt	integer

```
#Save the Data
write.csv(data,"Week 3/Processed Data/Week 3 Data PROCESSED.csv")
```