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

#Create a copy of the raw data
data<-rawData
```

```r
#Rename TIPI columns
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 created condition variables
colnames(conditionSplit)<-c("shockCause","pMoral")

#Add split columns into the data frame
data<-cbind(data,conditionSplit)

#Removing the original condition column
data<-data[,-4]

#Recodes missing values as NA
data$guilt<-ifelse(data$guilt==-99,NA,data$guilt)
```

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

#Calculate composite personality scores
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
#Rearranging columns
data<-data[,c(1:3,5:14,20:24,4,18:19,15:17)]



#Creating PDF Codebook
codebook<-data.frame("variable"=colnames(data))

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

```
  "Participant Age",
  "TIPI Extroversion 1",
  "TIPI Agreeableness 1 (R)",
  "TIPI Conscientiousness 1",
  "TIPI Neuroticism 1",
  "TIPI Openess 1",
  "TIPI Extroversion 2 (R)",
  "TIPI Agreeableness 2",
  "TIPI Conscientiousness 2 (R)",
  "TIPI Neuroticism 2 (R)",
  "TIPI Openess 2 (R)",
  "Composite Exrtoversion",
  "Composite Agreeableness",
  "Composite Conscientiousness",
  "Composite Neuroticism",
  "Composite Openess",
  "Shock Voltage",
  "Shock Cause (participant vs. partner)",
  "Partner Morality",
  "Amount of $ Shared with Partner (pre-shock)",
  "Amount of $ Shared with Partner (post-shock)",
  "Guilt Reported by Participant"
)

#Saves 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	Participant Age	integer
tipiE1	TIPI Extroversion 1	integer
tipiA2R	TIPI Agreeableness 1 (R)	numeric
tipiC3	TIPI Conscientiousness 1	integer
tipiN4	TIPI Neuroticism 1	integer
tipiO5	TIPI Openess 1	integer
tipiE6R	TIPI Extroversion 2 (R)	numeric
tipiA7	TIPI Agreeableness 2	integer
tipiC8R	TIPI Conscientiousness 2 (R)	numeric
tipiN9R	TIPI Neuroticism 2 (R)	numeric
tipiO10R	TIPI Openess 2 (R)	numeric
extra	Composite Exrtoversion	numeric
agree	Composite Agreeableness	numeric
consc	Composite Conscientiousness	numeric
neuro	Composite Neuroticism	numeric
open	Composite Openess	numeric
shock	Shock Voltage	character
shockCause	Shock Cause (participant vs. partner)	character
pMoral	Partner Morality	character

variable	description	type
preShare	Amount of $ Shared with Partner (pre-shock)	integer
postShare	Amount of $ Shared with Partner (post-shock)	integer
guilt	Guilt Reported by Participant	integer

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