```
# R course for beginners
# Week 7
# assignment by Omri Sabato, id 322777988
#### PRE-PROCCESSING COLLECTED DATA ----
#clear environment and set up data
rm(list = ls())
unzip("stroop_data.zip", exdir = "stroop_data")
setwd("stroop_data")
library(dplyr)
library(tools)
#binding data to collected_data
collected data <- data.frame()</pre>
for (subjects_data in dir()) {
  if(file_ext(subjects_data) == "csv") {
    collected_data <- rbind(collected_data, read.csv(subjects_data))</pre>
  }
  else{
    message(paste("Skipping non-CSV file:", subjects_data))
#converting to raw data
raw data <- collected data |>
  mutate(
    congruency = factor(ifelse(grepl("_cong", condition), "congruent", "incongruent")),
task = factor(ifelse(grepl("reading", condition), "word_reading", "ink_labeling")),
    accuracy = if else(correct response == participant response, 1, 0),
    trial = as.numeric(trial),
    block = as.numeric(block),
    rt = as.numeric(rt)
  ) |>
  select(subject, block, trial, congruency, task, accuracy, rt)
#checking for conversion problems on independent variables
ifelse(sum(is.na(raw data$congruency)) > 0, "congruency variable generation failed",
"congruency variable generation worked")
ifelse(sum(is.na(raw data$task) > 0), "task variable generation failed", "task variable
generation worked")
#assigning contrasts
contrasts(raw data$congruency) <- contr.treatment(levels(raw data$congruency), base =</pre>
which(levels(raw data$congruency) == "congruent"))
contrasts(raw data$task) <- contr.treatment(levels(raw data$task), base =</pre>
which(levels(raw_data$task) == "word reading"))
#save raw data
save(raw data, file = "raw data.RData")
```