PSYCH 363 - Stroop Effect: Congruency and Response Time

Keagan McMahon, Brigitta Munds, Benjamin Brown, & Christina Rachmadita

<2020-12-14 Mon> December 14th, 2020

Contents

1	Introduction	1
2	${f Methods}$	1
3	Results	1
4	Conclusions	4
5	References	4
	Testing Plots here This is to test your installation of the files and programs needed to make upper report. To compile to pdf use C-c C-e 1 p.	4 ∋ a

1 Introduction

Insert introduction text here...

2 Methods

Insert some method text here This loads an R library

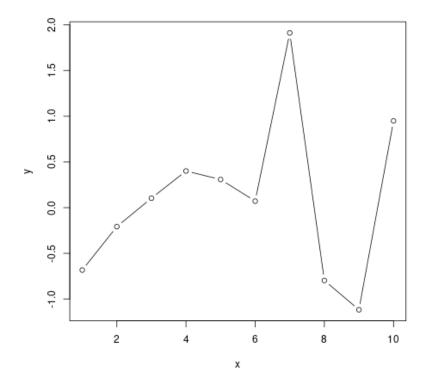
library(random)

3 Results

Insert some results text here and other content (i.e. code, etc)

Now we will see if we can some source code and a simple plot for our export.

```
x = 1:10
y = rnorm(10)
print(mean(y))
0.0938086862415748
   Here is some more R source code!
\{a=2
  b=6
  multiply <- function(a,b)</pre>
  return(a * b)
  print(paste(a, "multiplied by", b, "is", (print(multiply(a,b)))))
}
{ for(i in seq(1,10))
if(i\%2==0){
print(i) }
   Now lets try some Python source code from my loop assignment...
letters = ['t', 'r', 'i', 'b', 'q', 'v', 'h', 'p']
position = ['1st', '2nd', '3rd', '4th', '5th', '6th', '7th', '8th']
for x in letters:
  print(x)
for i in sorted(letters):
  print(i)
for x in enumerate(zip(letters, position)):
  print("The {0} letter in list 1 is {0}".format(x))
   Here is a graph of our results for you to see:
plot(x,y,type = 'b')
```



Here is some code that produces a table of data for us:

$$d \leftarrow data.frame(foo=c('a','b','n'), bar=c(1.0/3.0,22,32))$$

d

foo	bar
a	0.3333333333333333
b	22
n	32

Here is an example of an inline piece of code, it will generate 20 random numbers:

xinline = rnorm(20)

We can use that code in this way:

The mean of 20 mean 0 normally distributed numbers is -0.3251309856653.

4 Conclusions

Put some type of conclusion content here....

5 References

Insert some references here, such as... This article [1]

References

[1] Britt Anderson. There is no such thing as attention. Frontiers in Psychology, 2:246, 2011.

6 Testing Plots here.....

```
library(ggplot2)
data <- read.csv("/home/keagan/GitRepos/363Stroop/363Stroop_Data_Dec_4.csv")
incongruent <- data[which(data$Congruent == 0),]$Time
congruent <- data[which(data$Congruent == 1),]$Time
df <- data.frame(cond = c("Incongruent", "Congruent"), rt = c(mean(incongruent), mean(congruent))
p <- ggplot(df, aes(x = cond, y = rt, fill = cond)) + geom_bar(stat = "identity", width = 0)
p</pre>
```

