Analysis of Teaching Evaluations

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Contents

Data Import

Copied evaluation table, added quotes around the questions and imported into excel. Converted this to a csv file for import. Did this for both 2016 and 2017 teaching evaluations, downloaded from wolverine access.

```
library(readr)
library(dplyr)
data.2016.datafile <- '2016 Evaluations.csv'
data.2017.datafile <- '2017 Evaluations.csv'

input_col_types <- cols(
  Number = col_factor(levels=NULL),
  Question = col_factor(levels=NULL))

data.2016 <- read_csv(data.2016.datafile, col_types=input_col_types) %>% mutate(Year="2016")
data.2017 <- read_csv(data.2017.datafile, col_types=input_col_types)  %>% mutate(Year="2017")

te.data.wide <- full_join(data.2016,data.2017,
                      by = c("Number", "Question"),
                      suffix = c(".16", ".17"))

te.data <-
  rbind(data.2016,data.2017) %>%
  mutate(Total = SD+D+N+A+SA) %>%
  mutate(`Strongly Disagree`=SD/Total*100,
         `Disagree`=D/Total*100,
         `Neutral`=N/Total*100,
         `Agree`=A/Total*100,
         `Strongly Agree`=SA/Total*100)
```

The imported datafiles include:

- 2016 Evaluations.csv
- 2017 Evaluations.csv

Overall Questions

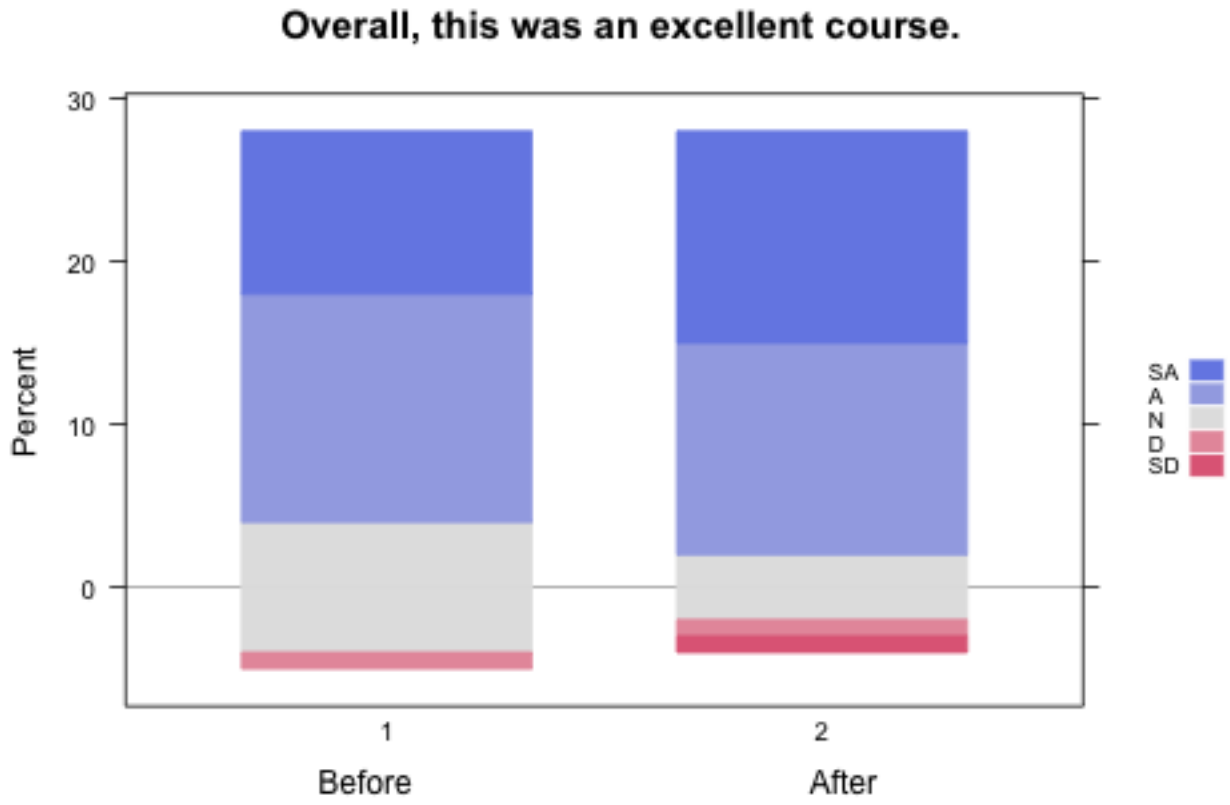
Overall, this was an excellent course.

```
overall.data <-
  te.data %>%
  filter(Number==1) %>%
  mutate(Item=as.factor(Year))

library(HH)

plot.data <- overall.data[7:3]
rownames(plot.data) <- c("Before","After")

likert(plot.data, horizontal = FALSE,
       main = "Overall, this was an excellent course.",
       xlab = "Percent", # becomes ylab due to horizontal arg,
       ylab = c("Before","After"),
       title = "Overall, this was an excellent course.",
       auto.key = list(space = "right", columns = 1,
                       reverse = TRUE))
```

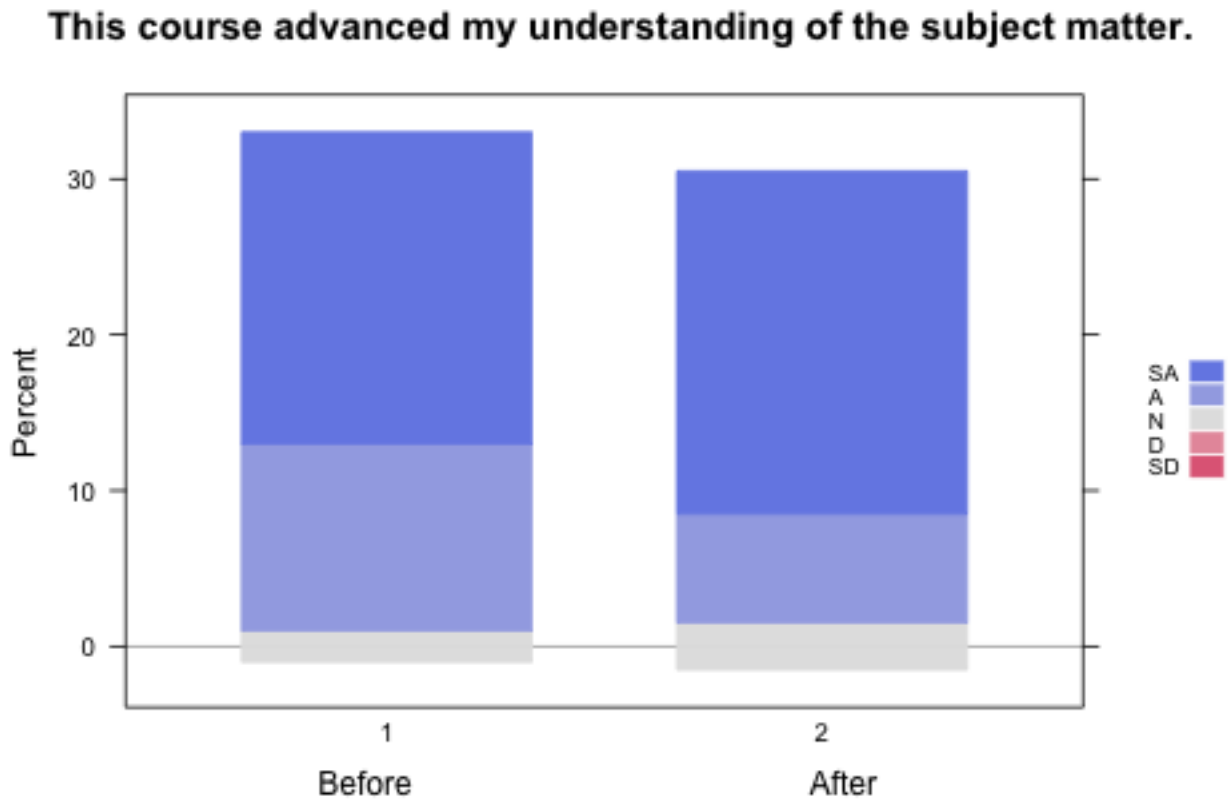


This course advanced my understanding of the subject matter.

```
overall.data <-
  te.data %>%
  filter(Number==1631) %>%
  mutate(Item=as.factor(Year))

plot.data <- overall.data[7:3]
rownames(plot.data) <- c("Before","After")

likert(plot.data, horizontal = FALSE,
       main = "This course advanced my understanding of the subject matter.",
       xlab = "Percent", # becomes ylab due to horizontal arg,
       ylab = c("Before","After"),
       title = "Overall, this was an excellent course.",
       auto.key = list(space = "right", columns = 1,
                       reverse = TRUE))
```



I learned a great deal from this course.

```
overall.data <-
  te.data %>%
  filter(Number==3) %>%
  mutate(Item=as.factor(Year))
```

```
plot.data <- overall.data[7:3]
rownames(plot.data) <- c("Before","After")

likert(plot.data, horizontal = FALSE,
       main = "I learned a great deal from this course.",
       xlab = "Percent", # becomes ylab due to horizontal arg,
       ylab = c("Before","After"),
       auto.key = list(space = "right", columns = 1,
                       reverse = TRUE))
```

The grades in this course were fairly determined.

```
overall.data <-
  te.data %>%
  filter(Number==894) %>%
  mutate(Item=as.factor(Year))

plot.data <- overall.data[7:3]
rownames(plot.data) <- c("Before","After")

likert(plot.data, horizontal = FALSE,
       main = "The grades in this course were fairly determined.", # or give "title",
       xlab = "Percent", # becomes ylab due to horizontal arg,
```

```
      ylab = c("Before","After"),
      title = "Overall, this was an excellent course.",
      auto.key = list(space = "right", columns = 1,
                      reverse = TRUE))
```