03 CSI online aphasia: Spoken - Descriptives

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Load packages

```
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
## filter, lag

## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union

library(tidyr)

rm(list = ls())
```

Load and preprocess data

Duration of the experiment

```
print("Total duration, not outlier corrected")
## [1] "Total duration, not outlier corrected"
```

```
# mean(df$timetotal, na.rm=TRUE) # 33.13 min
mean(df$time_correct)
## [1] 28.59683
sd(df$timetotal) # 21.04 min
## [1] 21.13194
range(df$timetotal) # 15 to 126 min
## [1] 12.68333 167.58333
print("Total duration, split by session")
## [1] "Total duration, split by session"
df %>% group_by(type,session) %>% summarise(mean = mean(timetotal),
                                         median=median(timetotal),
                                    sd = sd(timetotal),
                                    min = min(timetotal),
                                    max = max(timetotal))
## 'summarise()' has grouped output by 'type'. You can override using the
## '.groups' argument.
## # A tibble: 6 x 7
## # Groups: type [2]
   type session mean median sd min max
    <chr> <int> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <
##
## 1 PWA
                1 39.4 29.5 23.0 21.1 104.
## 2 PWA
                2 32.0 27.0 22.8 19.4 126.
## 3 PWA
                3 29.2 24.6 13.6 15.0 74.6
               1 28.3 19.2 32.3 13.8 168.
## 4 control
## 5 control
                2 18.2 17.5 3.62 12.7 26.1
## 6 control
                3 19.2 16.4 8.40 13.8 52.0
Description of participants
```

Gender:

```
## # A tibble: 4 x 3
## # Groups: type, gender_char [4]
            gender_char
     type
            <chr>
##
     <chr>
                        <dbl>
## 1 PWA
            female
## 2 PWA
            male
                           17
## 3 control female
                            3
## 4 control male
                            17
# 1 = female, 2 = male, 3 = diverse
print("percentage female:")
## [1] "percentage female:"
sum(df$gender == 1)/nrow(df)
## [1] 0.15
Age:
print('age:')
## [1] "age:"
df %>% group by(type) %>%
  summarise(mean=round(mean(age),2), sd=round(sd(age),2), min=min(age), max=max(age))
## # A tibble: 2 x 5
     type
            mean sd min
                                max
##
     <chr>
             <dbl> <dbl> <int> <int>
## 1 PWA
             53.4 5.43
                           39
## 2 control 53.2 5.72
Handedness:
# 1 = left handed, 2 = right handed, 3 = ambidexter/both
(handedness <- df %>% mutate(handedness_char = case_when(handedness == 1 ~ "left-handed",
                                     handedness == 2 ~ "right-handed",
                                    handedness==3 ~ "ambidexter/both")) %>%
  group_by(type) %>% count(handedness_char))
## # A tibble: 5 x 3
## # Groups: type [2]
            handedness_char
     type
     <chr>
            <chr>
                             <int>
            left-handed
## 1 PWA
                              1600
## 2 PWA
            right-handed
                              8000
## 3 control ambidexter/both
                             960
## 4 control left-handed
                              1120
## 5 control right-handed
                             7520
```

```
print("percentage right-handed:")
## [1] "percentage right-handed:"
print('PWA')
## [1] "PWA"
sum(df$handedness[df$type=="PWA"] == 2)/nrow(df[df$type=="PWA",])
## [1] 0.8333333
print('control')
## [1] "control"
sum(df$handedness[df$type=="control"] == 2)/nrow(df[df$type=="control",])
## [1] 0.7833333
Mother tongue (experiment was restricted to native German speakers): This seems to have worked
table(df$language) # 1 = yes (mother tongue is German), 2 = no
##
##
       1
## 19200
```

Attention checks

1) Item vs. non-item

```
## Item vs. non-item
# CH01_01 (Taube), CH01_02 (Apfel), CH02_01 (Luftballon) and CH02_02 (Biene) are items and 2 should be
# CH01_03 (Radio), CH01_04 (Sparschwein), CH02_03 (Laptop) and CH02_04 (Wattestäbchen) are non-items an
## Did participants cheat
# CHO3 = 1 - yes, I worked through it till the end,
# CHO3 = 2 - no, I stopped or cheated midway
\# CH03 = -9 - no answer
attcheck <- data.frame(subject = unique(df$subject))</pre>
df <- df %>% mutate(itemvsnonitem1 =
    case_when(CH01_01==2 & CH01_02==2 & CH01_03==1 & CH01_04==1 ~2, # all correct
              CH01_01==2 | CH01_02==2 ~1, # one correct
              CH01_01!=2 & CH01_02!=2 ~0)) %>% # none correct
  dplyr::mutate(itemvsnonitem2 =
    case_when(CH02_01==2 & CH02_02==2 & CH02_03==1 & CH02_04==1 ~2,
              CH02_01 == 2 \mid CH02_02 == 2 \sim 1,
              CH02_01!=2 & CH02_02!=2 ~0))
df %>% group_by(type, session) %>% count(itemvsnonitem1) %>% mutate(n=n/160)
```

```
## # A tibble: 12 x 4
## # Groups: type, session [6]
             session itemvsnonitem1
      type
##
      <chr>
                <int>
                           <dbl> <dbl>
##
   1 PWA
                    1
                                   0
##
   2 PWA
                    1
                                   1
                                         6
   3 PWA
                    1
                                   2
                                        13
                    2
##
  4 PWA
                                   1
                                         1
## 5 PWA
                    2
                                   2
                                        19
## 6 PWA
                    3
                                        2
                                   1
## 7 PWA
                    3
                                   2
                                        18
## 8 control
                    1
                                        4
                                   1
                    1
                                   2
                                        16
## 9 control
## 10 control
                    2
                                   2
                                        20
## 11 control
                    3
                                   1
                                         1
                                   2
## 12 control
                    3
                                         19
df %>% group_by(type, session) %>% count(itemvsnonitem2) %>% mutate(n=n/160)
## # A tibble: 13 x 4
               type, session [6]
## # Groups:
##
      type
              session itemvsnonitem2
##
      <chr>
               <int>
                               <dbl> <dbl>
##
   1 PWA
                                         2
                    1
                                   1
##
    2 PWA
                    1
                                   2
                                         18
## 3 PWA
                    2
                                   0
                                         1
                    2
## 4 PWA
                                   1
                                         1
                    2
## 5 PWA
                                   2
                                        18
## 6 PWA
                    3
                                   0
                                         1
## 7 PWA
                    3
                                         2
                                   1
## 8 PWA
                    3
                                        17
## 9 control
                   1
                                   1
                                         1
## 10 control
                    1
                                   2
                                        19
## 11 control
                    2
                                   1
                                        1
## 12 control
                    2
                                   2
                                        19
## 13 control
                    3
                                        20
# table(df$itemvsnonitem1)/160
# table(df$itemvsnonitem2)/160
All had at leas one item selected correctly in the attention test
2) Cheating
df \leftarrow df \%\% mutate(CH03 = case_when(CH03 == 1 ~
```

```
<chr>
              <int> <chr>
                                                                              <dbl>
## 1 PWA
                  1 " Ja, ich habe alles bis zum Ende bearbeitet."
                                                                                 19
                  1 "Nein, ich habe zwischendurch aufgehoert oder geschumme~
## 2 PWA
                                                                                 1
                  2 " Ja, ich habe alles bis zum Ende bearbeitet."
## 3 PWA
                                                                                 20
## 4 PWA
                  3 " Ja, ich habe alles bis zum Ende bearbeitet."
                                                                                 19
## 5 PWA
                  3 "Nein, ich habe zwischendurch aufgehoert oder geschumme~
                                                                                  1
## 6 control
                 1 " Ja, ich habe alles bis zum Ende bearbeitet."
                                                                                 20
                  2 " Ja, ich habe alles bis zum Ende bearbeitet."
                                                                                 20
## 7 control
## 8 control
                  3 " Ja, ich habe alles bis zum Ende bearbeitet."
                                                                                 19
## 9 control
                  3 "Nein, ich habe zwischendurch aufgehoert oder geschumme~
                                                                                  1
```

table(df\$CH03)/160

```
##
## Ja, ich habe alles bis zum Ende bearbeitet.
## 117
## Nein, ich habe zwischendurch aufgehoert oder geschummelt.
## 3
```

Comments

Comments don't indicate any problems that should lead to participant exclusion:

```
table(df$comments)/160
## numeric(0)
```

Arrays

```
table(df$array)/160
##
## 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
```

5 4 3 3 4 4 5 5 4 3 4 4 5 3 4 3 7 5 5 3 3 4 3 3 5 4

```
## 27 28 29 30
## 4 3 3 5

x <- df %>% group_by(subject, session) %>% count(array) %>% mutate(n=n/160)
array_rep = 0
for(i in 2:nrow(x)){
  if(x$subject[i-1] == x$subject[i] & x$array[i-1] == x$array[i]){
    array_rep = array_rep+1
  }
}
print(paste0(array_rep, " time an array was repeated within the same participant"))
```

[1] "1 time an array was repeated within the same participant"

```
df %>% group_by(type, session) %>% count(array) %>% mutate(n=n/160) %>% arrange(array)
## # A tibble: 94 x 4
## # Groups: type, session [6]
      type
             session array
##
      <chr>
                <int> <int> <dbl>
##
   1 PWA
                    1
                         1
## 2 PWA
                    3
                          1
                                1
## 3 control
                    2
                          1
                                1
## 4 PWA
                    2
                          2
                                1
                    3
## 5 PWA
                          2
                                2
## 6 control
                    2
                          2
                                1
## 7 control
                    1
                          3
                                1
                    2
## 8 control
                          3
                                1
## 9 control
                    3
                          3
                                1
## 10 PWA
                    1
                                1
## # i 84 more rows
df %>% count(array) %>% mutate(n=n/160)
##
      array n
## 1
         1 5
## 2
          2 4
## 3
          3 3
## 4
          4 3
## 5
          5 4
## 6
          6 4
## 7
         7 5
## 8
         8 5
## 9
         9 4
## 10
        10 3
## 11
         11 4
## 12
         12 4
        13 5
## 13
## 14
        14 3
## 15
        15 4
## 16
         16 3
## 17
         17 7
## 18
        18 5
## 19
         19 5
## 20
         20 3
## 21
        21 3
## 22
         22 4
         23 3
## 23
## 24
        24 3
## 25
        25 5
         26 4
## 26
## 27
         27 4
## 28
        28 3
## 29
        29 3
```

30 5

30

Get an overview of the computer setups

```
Information was read-out automatically from SoSci Survey SD22_PRV (provider): 1 = Android 2 = Apple 3 = BlackBerry 4 = PlayBook 5 = Kindle 6 = Microsoft -1 = Sonstige oder unbekannt

SD22_OS (OS): 10 = Windows NT 11 = Windows Vista 12 = Windows 7 13 = Windows 8 15 = Windows 10 20 = Linux 30 = MaxOS X 40 = iOS 50 = Android -1 = Sonstiges -2 = unbekannt

SD22_BID (Browser-Identification (HTTP_USER_AGENT))

SD22_BNM (Browser) 1 = Android WebView 2 = Chrome 3 = Chromium 4 = Coast 5 = Firefox 6 = IE 7 = Opera 8 = Safari 9 = Edge 10 = Safari WebView 11 = IE (mobile) 12 = Edge (mobile) -1 = Sonstiges -2 = Default Browser -3 = unbekannt

SD22_BVS (Browser-version)

SD22_FmF (Format) 1 = Computer 2 = Fernsehgerät 3 = Tablet 4 = Mobilgerät 5 = Smartphone -2 = unbekannt

SD22_ScW (screen width [Pixel]) SD22_ScH (screen [Pixel]

SD22_QnW (questionnaire width [Pixel])
```

```
#colnames(df)
df <- df %>% mutate(SD22_OS=as.character(as.numeric(SD22_OS))) %>%
  mutate(os_system = case_when(
  SD22_OS==10 ~ "Windows NT",
  SD22_OS==11 ~ "Windows Vista",
  SD22_OS==12 ~ "Windows 7",
  SD22_OS==13 ~ "Windows 8",
  SD22_OS==15 ~ "Windows 10",
  SD22 OS==20 ~ "Linux",
  SD22 OS==30 ~ "MaxOS X",
  SD22 OS==40 ~ "iOS",
  SD22 OS==50 ~ "Android",
  SD22 OS==-1 \sim "other",
  SD22 OS==-2 ~ "unknown")) %>%
  mutate(os_system_raw=case_when(
  SD22_OS==10 ~ "Windows",
  SD22_OS==11 ~ "Windows",
  SD22_OS==12 ~ "Windows",
  SD22_OS==13 ~ "Windows",
  SD22 OS==15 \sim "Windows",
  SD22_OS==20 ~ "Linux",
  SD22_OS==30 ~ "Apple",
  SD22_OS==40 ~ "Apple",
  SD22 OS==50 ~ "Android",
  SD22_OS==-1 ~ "other",
  SD22 OS==-2 ~ "unknown"))
df %>% group_by(os_system) %>% count() %>% mutate(n=n/40/3)
```

```
## # A tibble: 5 x 2
## # Groups: os_system [5]
## os_system n
## <chr> <dbl>
## 1 MaxOS X 12
```

```
## 2 Windows 10
## 3 Windows 7
                   4
## 4 Windows 8
                   4
## 5 unknown
                  108
df %>% group_by(os_system_raw) %>% count() %>% mutate(n=n/40/3)
## # A tibble: 3 x 2
## # Groups: os_system_raw [3]
##
    os_system_raw
                    n
     <chr>
                 <dbl>
## 1 Apple
                     12
## 2 Windows
                     40
## 3 unknown
                     108
\# df \leftarrow df \%\%  mutate(SD22_PRV=as.character(as.numeric(SD22_PRV))) \%\%
# mutate(provider = case when(
# SD22 PRV==1 ~ "Android",
# SD22_PRV==2 ~ "Apple",
# SSD22_PRV==3 ~ "BlackBerry",
# SD22_PRV==4 ~ "PlayBook",
# SD22_PRV==5 ~ "Kindle",
  SD22\_PRV==6 ~ "Microsoft",
# SD22_PRV==-1 ~ "other or unknown"))
# df %>% group_by(provider) %>% count() %>% mutate(n=n/40/3)
#df %>% group_by(SD22_BID) %>% count() %>% mutate(n=n/40/3)
df <- df %>% mutate(SD22_BNM=as.character(as.numeric(SD22_BNM))) %>%
  mutate(browser = case_when(
  SD22_BNM==1 ~ "Android WebView",
  SD22_BNM==2 ~ "Chrome",
  SD22 BNM==3 ~ "Chromium",
  SD22_BNM==4 ~ "Coast",
  SD22 BNM==5 ~ "Firefox",
  SD22_BNM==6 ~ "IE",
  SD22_BNM==7 ~ "Opera",
  SD22_BNM==8 ~ "Safari",
  SD22_BNM==9 ~ "Edge",
  SD22_BNM==10 ~ "Safari WebView",
  SD22_BNM==11 ~ "IE (mobile)",
  SD22_BNM==12 ~ "Edge (mobile)",
  SD22_BNM==-1 ~ "other",
  SD22_BNM==-2 ~ "default browser",
  SD22_BNM==-3 ~ "unknown"))
#df \%\% group_by(SD22_BVS) \%\% count() \%\% mutate(n=n/40/3) # browser version
df <- df %>% mutate(SD22_FmF=as.character(as.numeric(SD22_FmF))) %>%
  mutate(system_format = case_when(
  SD22_FmF==1 ~ "Computer",
  SD22_FmF==2 ~ "Television";
```

```
SD22_FmF==3 ~ "Tablet",
 SD22_FmF==4 ~ "Mobile device",
 SD22_FmF==5 ~ "Smartphone",
 SD22_BNM==-2 ~ "unknown"))
df %>% group_by(system_format) %>% count() %>% mutate(n=n/40/3)
## # A tibble: 2 x 2
## # Groups: system_format [2]
     system_format
                       n
##
     <chr>
                   <dbl>
## 1 Computer
                   153.
## 2 Tablet
                    6.67
df <- df %>% mutate(screen_width=as.character(as.numeric(SD22_ScW)))
df %>% group_by(screen_width) %>% count() %>% mutate(n=n/40/3)
## # A tibble: 10 x 2
## # Groups: screen_width [10]
      screen_width
##
                      n
##
      <chr>
                  <dbl>
## 1 1024
                    4
## 2 1280
                   12
## 3 1366
                   58.7
## 4 1368
                    4
## 5 1440
                    8
## 6 1536
                   16
## 7 1600
                   12
## 8 1768
                    4
## 9 1920
                   37.3
## 10 2560
                    4
df <- df %>% mutate(screen height=as.character(as.numeric(SD22 ScH)))
df %>% group_by(screen_height) %>% count() %>% mutate(n=n/40/3)
## # A tibble: 12 x 2
## # Groups: screen_height [12]
##
      screen_height
                      n
##
      <chr>
                   <dbl>
## 1 1000
                    4
## 2 1080
                   21.3
## 3 1200
                   16
## 4 1440
                    4
## 5 720
                    5.33
## 6 768
                   62.7
## 7 800
                    6.67
## 8 864
                   16
## 9 900
                   12
## 10 912
                    4
## 11 960
                    4
## 12 992
                    4
```

```
df <- df %>% mutate(questionnaire_width=as.character(as.numeric(SD22_QnW)))
df %% group_by(questionnaire_width) %% count() %% mutate(n=n/40/3)
## # A tibble: 2 x 2
## # Groups:
              questionnaire width [2]
     questionnaire_width
                             n
##
     <chr>>
                         <dbl>
## 1 799
                             4
## 2 800
                           156
(df %>% group_by(subject, session) %>% select(SD22_BID, os_system_raw,
                                             os_system, browser,
                                             system_format,
                                             screen_width, screen_height,
                                             questionnaire_width) %>%
  unique() -> setup_overview)
## Adding missing grouping variables: 'subject', 'session'
## # A tibble: 120 x 10
## # Groups:
              subject, session [120]
##
      subject session SD22 BID
                                      os_system_raw os_system browser system_format
               <int> <chr>
##
        <int>
                                      <chr>
                                                    <chr>
                                                              <chr>
                                                                      <chr>
##
          101
                    1 Mozilla/5.0 (W~ unknown
                                                    unknown defaul~ Computer
   1
          101
                    2 Mozilla/5.0 (W~ unknown
##
  2
                                                    unknown defaul~ Computer
                                                    unknown
## 3
         101
                    3 Mozilla/5.0 (W~ unknown
                                                             defaul~ Computer
## 4
         102
                    1 Mozilla/5.0 (W~ unknown
                                                              defaul~ Computer
                                                    unknown
## 5
         102
                    2 Mozilla/5.0 (W~ unknown
                                                    unknown
                                                              defaul~ Computer
         102
                    3 Mozilla/5.0 (W~ unknown
##
  6
                                                    unknown
                                                              defaul~ Computer
         103
                    1 Mozilla/5.0 (W~ unknown
  7
                                                    unknown
                                                             defaul~ Computer
                    2 Mozilla/5.0 (W~ unknown
## 8
          103
                                                    unknown
                                                              defaul~ Computer
## 9
          103
                    3 Mozilla/5.0 (W~ unknown
                                                              defaul~ Computer
                                                    unknown
## 10
          104
                    1 Mozilla/5.0 (M~ Apple
                                                    MaxOS X
                                                              Firefox Computer
## # i 110 more rows
## # i 3 more variables: screen_width <chr>, screen_height <chr>,
      questionnaire_width <chr>>
## save this table and anonymize by hand
write.csv(setup_overview,here::here("data", "transient_data_files", "setup_overview_all.csv"),
            row.names = FALSE)
Load manually cleaned overview and create table
setups <- read.csv2(here::here("data", "transient_data_files",</pre>
                              "setup_overview_cleaned.csv"))
setups %>% group_by(OS) %>% count()
## # A tibble: 6 x 2
## # Groups:
              OS [6]
    OS
                                               n
##
                                           <int>
     <chr>
```

```
## 1 MaxOS X
## 2 Samsung Galaxy Tab A 9.7
                                              1
## 3 Windows 10
                                             30
## 4 Windows 10 (Android on day2 and day8)
                                              1
## 5 Windows 7
## 6 Windows 8
                                              3
setups %>%
 mutate(group=case_when(subject<200 ~ "PWA", subject >200 ~ "Control")) %>%
group_by(group,browser) %>% count()
## # A tibble: 9 x 3
## # Groups: group, browser [9]
## group browser
   <chr>
           <chr>
                                  <int>
## 1 Control Chrome
                                      5
## 2 Control Edge
                                      3
                                      9
## 3 Control Firefox
## 4 Control Opera
                                      2
## 5 Control SamsungBrowser
                                      1
                                      2
## 6 PWA
         Chrome
## 7 PWA
            Chrome (Edge on day8)
                                      1
## 8 PWA Edge
                                     13
## 9 PWA Firefox
                                      4
setups %>% group_by(system_format) %>% count()
## # A tibble: 3 x 2
## # Groups:
              system_format [3]
    system_format
     <chr>
                                        <int>
## 1 Computer
                                           38
## 2 Computer (Tablet on day2 and day8)
                                            1
## 3 Tablet
setups %>% group_by(test_location) %>% count()
## # A tibble: 2 x 2
## # Groups: test_location [2]
##
   {\tt test\_location}
                   n
                <int>
    <chr>
## 1 clinic
                    12
## 2 home
                     28
setups %>% group_by(screen_width) %>% count()
## # A tibble: 11 x 2
## # Groups: screen_width [11]
##
     screen_width
     <chr>
                          <int>
## 1 1024
                              1
```

```
## 2 1280
                               2
## 3 1366
                              14
## 4 1366 (1280 on day 8)
                               1
## 5 1368
## 6 1440
                               2
## 7 1536
                               4
## 8 1600
                               3
## 9 1768
                               1
## 10 1920
                              10
## 11 2560
                               1
setups %>%
  mutate(screen_width=case_when(screen_width=="1366 (1280 on day 8)" ~ 1366,
                                TRUE ~ as.numeric(as.character(screen_width)))) %>%
  summarise(min=min(screen_width), max=max(screen_width),
            mean=mean(screen_width), sd=sd(screen_width))
## Warning: There was 1 warning in 'mutate()'.
## i In argument: 'screen_width = case_when(...)'.
## Caused by warning:
## ! NAs introduced by coercion
##
      min max
                  mean
## 1 1024 2560 1569.85 295.9897
setups %>% group_by(screen_height) %>% count()
## # A tibble: 13 x 2
## # Groups: screen_height [13]
##
      screen_height
                             n
##
      <chr>
                         <int>
## 1 1000
                             1
## 2 1080
                             6
## 3 1200
                             4
## 4 1440
                             1
## 5 720
                             1
## 6 768
                            15
## 7 768 (720 on day8)
                             1
## 8 800
                             1
## 9 864
                             4
## 10 900
                             3
## 11 912
                             1
## 12 960
                             1
## 13 992
setups %>%
  mutate(screen_height=case_when(screen_height=="768" (720 on day8)" ~ 768,
                                TRUE ~ as.numeric(as.character(screen_height)))) %>%
  summarise(min=min(screen_height), max=max(screen_height),
            mean=mean(screen_height), sd=sd(screen_height))
```

```
## i In argument: 'screen_height = case_when(...)'.
## Caused by warning:
## ! NAs introduced by coercion
##
    min max mean
## 1 720 1440 913.7 174.4639
setups %>% group_by(questionnaire_width) %>% count()
## # A tibble: 2 x 2
## # Groups:
              questionnaire_width [2]
    questionnaire_width
##
                   <int> <int>
## 1
                     799
                            1
## 2
                     800
                            39
```

Fully anonymize data and reduce data frame

```
# df_a <- df %>% dplyr::select(!"gender" & !starts_with("language") &
                                  !starts with("handedness") &
#
                                  !starts_with("fingers") &
#
                                  !starts_with("KB") &
#
                                  !starts_with("CHO") &
#
                                  !"comments" & !"type" &
#
                                  #!"qender_char" &
#
                                  !"itemusnonitem1" &
                                  !"itemusnonitem2" &
#
#
                                  !starts_with("MC") &
#
                                  !starts_with("SD") &
                                  !c("os_system", "os_system_raw",
#
                                     "browser", "screen_width",
#
#
                                     "system_format",
#
                                     "questionnaire_width",
#
                                     "screen_height", "ORO2_01", "array") &
#
#
                                # !"name" & !"time_wo_outlier"
```

```
#write.csv(df_a, here::here("data", "data_long_anonymous.csv"))
```