

FFA-Norm values

Based on the 2009 Paper by Kohls, Sauer and Walach

Sebastian Sauer

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1 Summary

- This analyses comprises (a) descriptive (summary) statistics as well as (b) norm values
- All analyses were based on the FMI13 as presented in Kohls, Sauer and Walach (2009):
Kohls, N., Sauer, S., & Walach, H. (2009). Facets of mindfulness – Results of an online study investigating the Freiburg mindfulness inventory. *Personality and Individual Differences*, 46(2), 224–230. <https://doi.org/10.1016/j.paid.2008.10.009>
- Results are presented for (a) a general factor solution (b) and for the two factor solution, based on the paper of Kohls, Sauer and Walach (2009)
- The present norm analyses includes the following norm values: z-values, T values, percentage rank empirical, percentage rank based on a normal distribution

- For the descriptive analyses, typical statistics are reported, ie. mean, sd, range, quartiles, skewness, kurtosis as well as a “0-1-standardized mean”, defined as mean/3 (as 3 is the theoretical upper limit of each score). This statistics is meant to easy comparison.
- A number of subgroup results are presented: by sex (female and male), continuous mindfulness training (yes or no), whether intensive mindfulness retreats have been conducted (yes or no), whether Vipassana training is practiced (yes or no), age (median split, ie., 49 years)

2 Setup

Load R-Packages and other functions used.

```
library(easystats)
library(here)
library(tidyverse)
#library(knitr)
library(DataExplorer)
#library(scales)

source("R-code/funs.R")
source("R-code/01-prepare-data.R")
```

3 Prepare data

```
d <- prepare_FMI_data()
```

```
## The following items were matched to the *presence* factor:  FFA_1 FFA_2 FFA_3 FFA_5 FFA_7 FFA_10
## The following items were matched to the *acceptance* factor:  FFA_4 FFA_6 FFA_8 FFA_9 FFA_11 FFA_12
## mutating factors to character variables
```

The column names are:

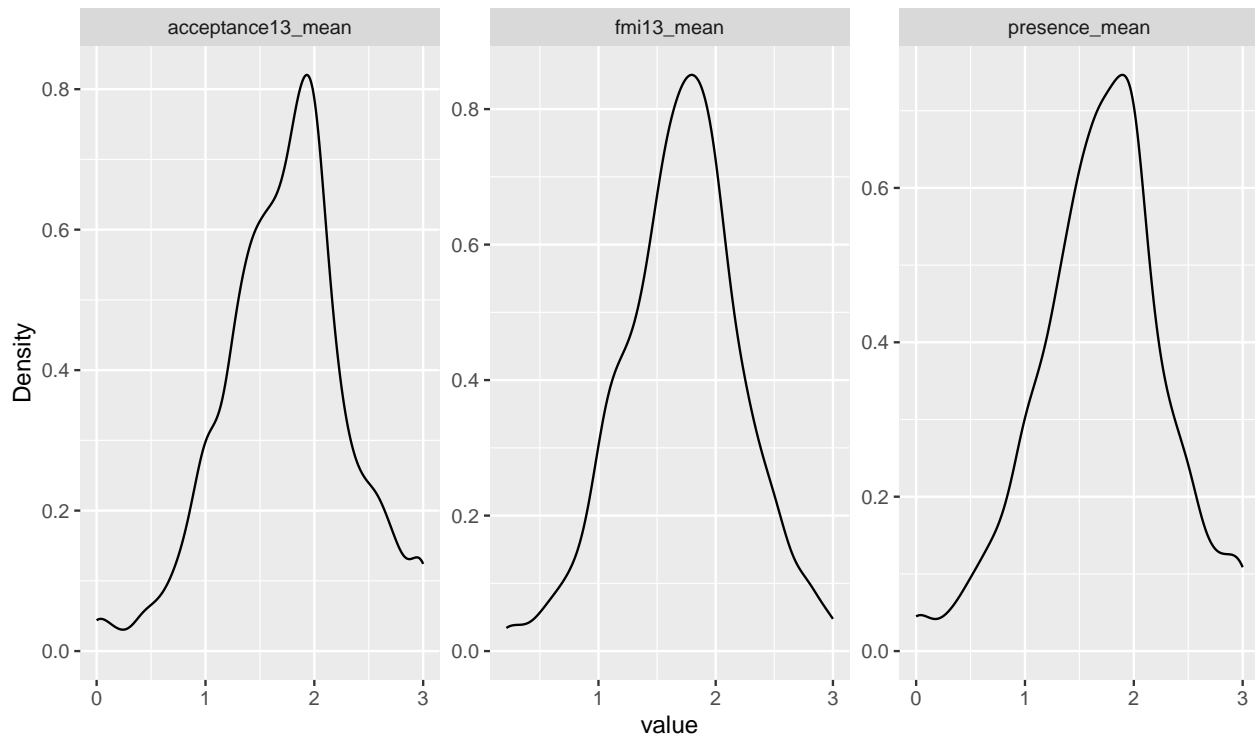
```
d2 <-
  d %>%
  select(-starts_with("FFA_"))

names(d2)
```

4 Describe data

4.1 Visualization of item distribution

```
d2 %>%
  select(ends_with("_mean")) %>%
  plot_density() + theme_minimal()
```

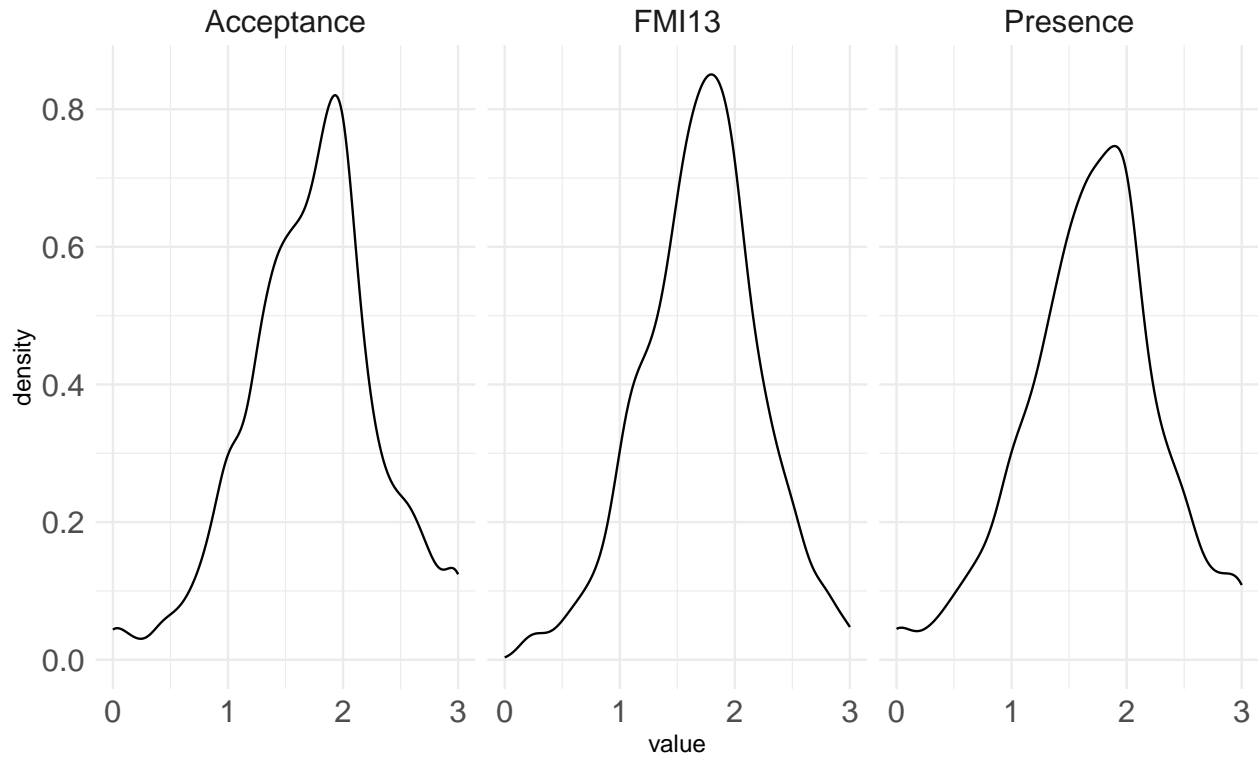


```
## NULL
```

Alternative visualization, keeping the x-axis constant:

```
facet_labs <- c(acceptance13_mean = "Acceptance",
                fmi13_mean = "FMI13",
                presence_mean = "Presence")

d2 %>%
  select(ends_with("_mean")) %>%
  pivot_longer(everything()) %>%
  ggplot(aes(x = value)) +
  geom_density() +
  facet_wrap(~ name, labeller = as_labeller(facet_labs)) +
  theme_minimal() +
  theme(strip.text = element_text(size = 14),
        axis.text = element_text(size = 14))
```



5 Results for the FMI13 overall scale (general factor solution)

5.1 descriptives

```
d2 %>%
  select(ends_with("_mean")) %>%
  describe_distribution(iqr = FALSE, range = TRUE, quartiles = TRUE) %>%
  mutate(Mean01 = Mean/3) %>%
  relocate(Mean01, .after = Mean) %>%
  knitr::kable(digits = 2)
```

Variable	Mean	Mean01	SD	Min	Max	Q1	Q3	Skewness	Kurtosis	n	n_Missing
fmi13_mean	1.71	0.57	0.51	0.21	3	1.36	2	-0.15	0.16	1012	0
presence_mean	1.70	0.57	0.59	0.00	3	1.33	2	-0.24	0.19	1012	0
acceptancel3_mean	1.73	0.58	0.58	0.00	3	1.43	2	-0.22	0.27	1012	0

5.2 Norms

```
d2 %>%
  select(ends_with("_mean")) %>%
  map(~ knitr::kable(compute_all_norms(., min_score = 0, max_score = 3, by = .1),
    digits = 2))
```

\$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.37	1.00	16.35	0.00
0.1	0.00	-3.17	1.00	18.31	0.00
0.2	0.00	-2.97	1.00	20.28	0.00
0.3	0.01	-2.78	1.00	22.24	0.00
0.4	0.01	-2.58	1.00	24.21	0.00
0.5	0.02	-2.38	1.00	26.17	0.01
0.6	0.02	-2.19	1.00	28.13	0.01
0.7	0.03	-1.99	1.02	30.10	0.02
0.8	0.04	-1.79	1.41	32.06	0.04
0.9	0.05	-1.60	1.80	34.02	0.06
1.0	0.09	-1.40	2.20	35.99	0.08
1.1	0.12	-1.20	2.59	37.95	0.11
1.2	0.15	-1.01	2.98	39.92	0.16
1.3	0.21	-0.81	3.38	41.88	0.21
1.4	0.25	-0.62	3.77	43.84	0.27
1.5	0.34	-0.42	4.16	45.81	0.34
1.6	0.40	-0.22	4.55	47.77	0.41
1.7	0.45	-0.03	4.95	49.74	0.49
1.8	0.58	0.17	5.34	51.70	0.57
1.9	0.64	0.37	5.73	53.66	0.64
2.0	0.76	0.56	6.13	55.63	0.71
2.1	0.80	0.76	6.52	57.59	0.78
2.2	0.83	0.96	6.91	59.56	0.83
2.3	0.89	1.15	7.30	61.52	0.88
2.4	0.91	1.35	7.70	63.48	0.91
2.5	0.95	1.54	8.09	65.45	0.94
2.6	0.96	1.74	8.48	67.41	0.96
2.7	0.97	1.94	8.88	69.38	0.97
2.8	0.99	2.13	9.00	71.34	0.98
2.9	0.99	2.33	9.00	73.30	0.99
3.0	1.00	2.53	9.00	75.27	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.86	1.00	21.37	0.00
0.1	0.01	-2.69	1.00	23.06	0.00
0.2	0.02	-2.53	1.00	24.74	0.01
0.3	0.02	-2.36	1.00	26.43	0.01
0.4	0.02	-2.19	1.00	28.12	0.01
0.5	0.04	-2.02	1.00	29.80	0.02
0.6	0.04	-1.85	1.30	31.49	0.03
0.7	0.06	-1.68	1.64	33.18	0.05
0.8	0.06	-1.51	1.97	34.86	0.07
0.9	0.09	-1.34	2.31	36.55	0.09
1.0	0.15	-1.18	2.65	38.24	0.12
1.1	0.15	-1.01	2.98	39.92	0.16
1.2	0.21	-0.84	3.32	41.61	0.20
1.3	0.21	-0.67	3.66	43.30	0.25
1.4	0.29	-0.50	4.00	44.99	0.31
1.5	0.40	-0.33	4.33	46.67	0.37

score	perc_rank	z	stanine	T	perc_normal
1.6	0.40	-0.16	4.67	48.36	0.43
1.7	0.52	0.00	5.01	50.05	0.50
1.8	0.52	0.17	5.35	51.73	0.57
1.9	0.64	0.34	5.68	53.42	0.63
2.0	0.77	0.51	6.02	55.11	0.70
2.1	0.77	0.68	6.36	56.79	0.75
2.2	0.84	0.85	6.70	58.48	0.80
2.3	0.84	1.02	7.03	60.17	0.85
2.4	0.89	1.19	7.37	61.85	0.88
2.5	0.93	1.35	7.71	63.54	0.91
2.6	0.93	1.52	8.05	65.23	0.94
2.7	0.96	1.69	8.38	66.91	0.95
2.8	0.96	1.86	8.72	68.60	0.97
2.9	0.98	2.03	9.00	70.29	0.98
3.0	1.00	2.20	9.00	71.97	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.99	1.00	20.06	0.00
0.1	0.01	-2.82	1.00	21.78	0.00
0.2	0.01	-2.65	1.00	23.51	0.00
0.3	0.02	-2.48	1.00	25.24	0.01
0.4	0.02	-2.30	1.00	26.96	0.01
0.5	0.03	-2.13	1.00	28.69	0.02
0.6	0.04	-1.96	1.08	30.42	0.03
0.7	0.04	-1.79	1.43	32.14	0.04
0.8	0.05	-1.61	1.77	33.87	0.05
0.9	0.08	-1.44	2.12	35.60	0.07
1.0	0.13	-1.27	2.47	37.33	0.10
1.1	0.13	-1.09	2.81	39.05	0.14
1.2	0.17	-0.92	3.16	40.78	0.18
1.3	0.24	-0.75	3.50	42.51	0.23
1.4	0.24	-0.58	3.85	44.23	0.28
1.5	0.33	-0.40	4.19	45.96	0.34
1.6	0.42	-0.23	4.54	47.69	0.41
1.7	0.42	-0.06	4.88	49.41	0.48
1.8	0.51	0.11	5.23	51.14	0.55
1.9	0.63	0.29	5.57	52.87	0.61
2.0	0.75	0.46	5.92	54.60	0.68
2.1	0.75	0.63	6.26	56.32	0.74
2.2	0.82	0.80	6.61	58.05	0.79
2.3	0.87	0.98	6.96	59.78	0.84
2.4	0.87	1.15	7.30	61.50	0.87
2.5	0.90	1.32	7.65	63.23	0.91
2.6	0.94	1.50	7.99	64.96	0.93
2.7	0.94	1.67	8.34	66.68	0.95
2.8	0.96	1.84	8.68	68.41	0.97
2.9	0.98	2.01	9.00	70.14	0.98
3.0	1.00	2.19	9.00	71.87	0.99

```

norms <-
d2 %>%
  select(ends_with("_mean")) %>%
  map(~ compute_all_norms(.,
                          min_score = 0,
                          max_score = 3,
                          by = .1),
      digits = 2)

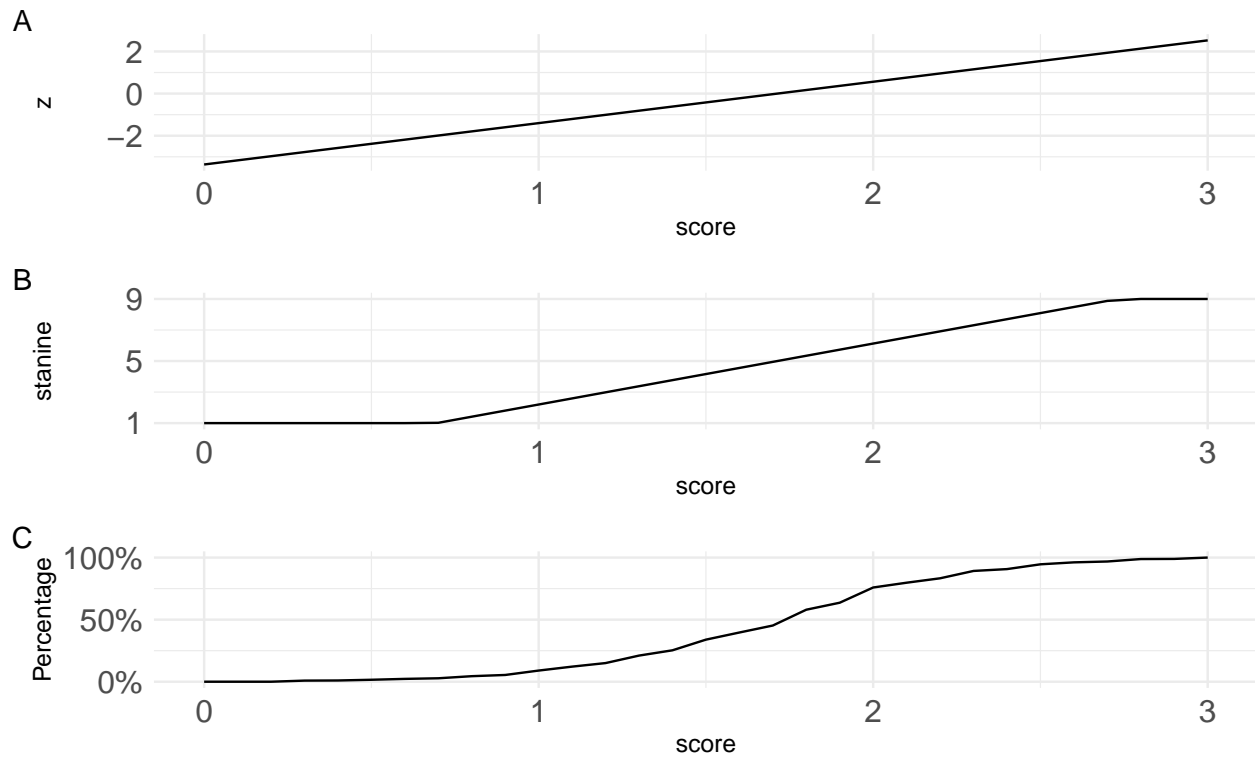
p_norm1 <-
norms %>%
  pluck(1) %>%
  ggplot(aes(x = score, y = z)) +
  geom_line() +
  scale_y_continuous(breaks = c(-2, 0, 2)) +
  theme(strip.text = element_text(size = 14),
        axis.text = element_text(size = 14))

p_norm2 <-
norms %>%
  pluck(1) %>%
  ggplot(aes(x = score, y = stanine)) +
  geom_line() +
  scale_y_continuous(breaks = c(1, 5, 9)) +
  theme(strip.text = element_text(size = 14),
        axis.text = element_text(size = 14))

p_norm3 <-
norms %>%
  pluck(1) %>%
  ggplot(aes(x = score, y = perc_rank)) +
  geom_line() +
  labs(y = "Percentage") +
  scale_y_continuous(breaks = c(0, .5, 1),
                    labels = c("0%", "50%", "100%")) +
  theme(strip.text = element_text(size = 14),
        axis.text = element_text(size = 14))

see::plots(p_norm1, p_norm2, p_norm3, tags = TRUE,
           n_rows = 3)

```



```
#
# see::plots(p_norm1, p_norm2, p_norm3, tags = TRUE,
#           n_rows = 3,
#           title = "FMI-13R mean value (x-axis) vs. different norm values (y-axis)")
```

6 Norm values for different subgroups

The following subgroup variables were considered:

```
subgroup_vars <- c("Geschlecht", "Achts_regel", "Retreats", "Vip_regel", "age_below_md")
subgroup_vars
```

```
## [1] "Geschlecht" "Achts_regel" "Retreats" "Vip_regel" "age_below_md"
```

6.1 Split by sex

6.1.1 Stats

```
d2 %>%
  #filter(Geschlecht %in% c("männlich", "weiblich")) %>%
  mutate(Geschlecht = as.character(Geschlecht)) %>%
  describe_fmi_stats(var = Geschlecht)
```

Table 5: Geschlecht=female

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.73	0.58	0.57	(0.00, 3.00)	1.29, 2.07	-0.09	-0.13	515	0
fmi13_mean	1.71	0.57	0.51	(0.21, 3.00)	1.36, 2.07	-0.11	-0.27	515	0
presence_mean	1.72	0.57	0.58	(0.00, 3.00)	1.33, 2.00	-0.11	-0.10	515	0

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
----------	------	---------	----	-------	-----------	----------	----------	---	-----------

Table 6: Geschlecht=male

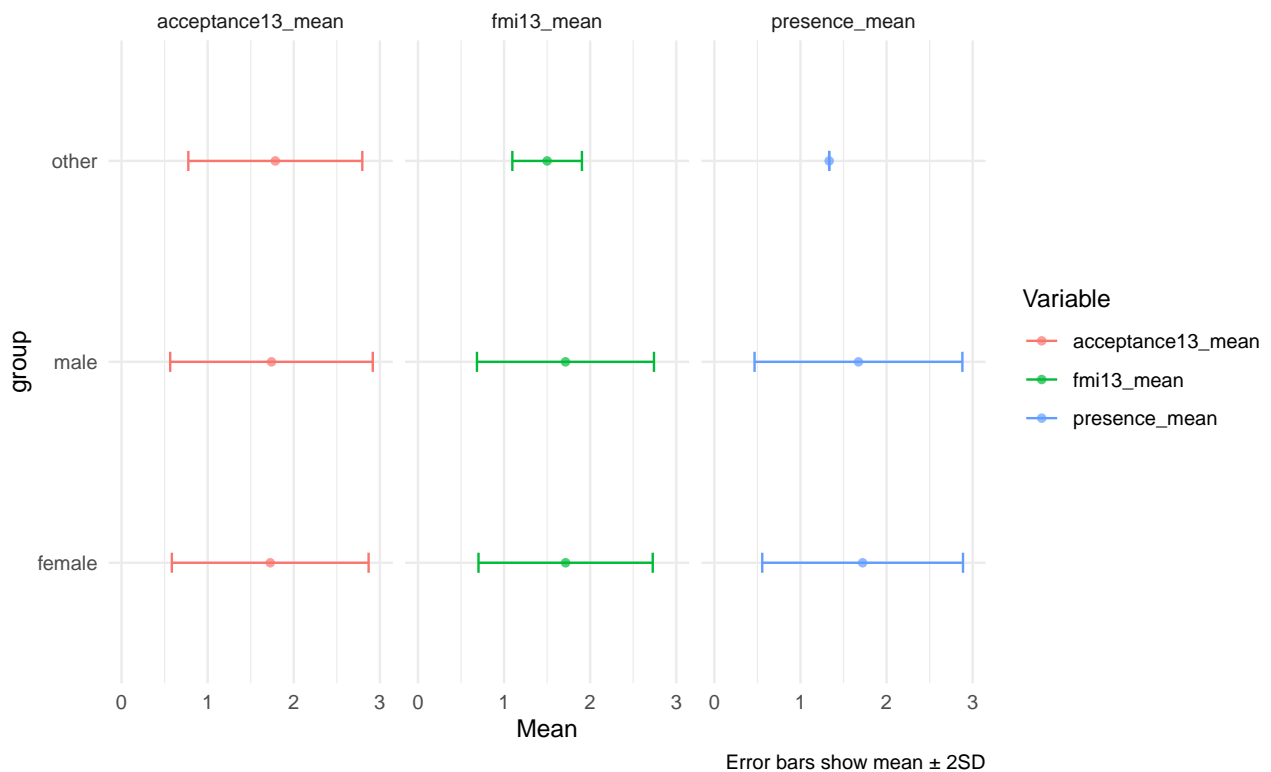
Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.74	0.58	0.59	(0.00, 3.00)	1.43, 2.00	-0.34	0.65	495	0
fmi13_mean	1.71	0.57	0.51	(0.21, 3.00)	1.43, 2.00	-0.19	0.58	495	0
presence_mean	1.67	0.56	0.60	(0.00, 3.00)	1.33, 2.00	-0.35	0.42	495	0

Table 7: Geschlecht=other

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.79	0.60	0.51	(1.43, 2.14)	1.61, 1.96	9.14e-16	-2.00	2	0
fmi13_mean	1.50	0.50	0.20	(1.36, 1.64)	1.43, 1.57	0.00	-2.00	2	0
presence_mean	1.33	0.44	0.00	(1.33, 1.33)	1.33, 1.33			2	0

Plot:

```
plot_fmi_descriptives(var = Geschlecht)
```



6.1.2 Norms

```
for (i in unique(d2$Geschlecht)) {
  cat("Group: ", i, "\n")
}
```

```
d2 %>%
  filter(Geschlecht == i) %>%
  select(ends_with("_mean")) %>%
  map(~ knitr::kable(compute_all_norms(., min_score = 0, max_score = 3, by = .1), digits = 2)) %>% p
}
```

Group: male \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.33	1.00	16.67	0.00
0.1	0.00	-3.14	1.00	18.61	0.00
0.2	0.00	-2.94	1.00	20.56	0.00
0.3	0.01	-2.75	1.00	22.50	0.00
0.4	0.02	-2.55	1.00	24.45	0.01
0.5	0.02	-2.36	1.00	26.40	0.01
0.6	0.03	-2.17	1.00	28.34	0.02
0.7	0.03	-1.97	1.06	30.29	0.02
0.8	0.05	-1.78	1.45	32.23	0.04
0.9	0.05	-1.58	1.84	34.18	0.06
1.0	0.08	-1.39	2.23	36.13	0.08
1.1	0.12	-1.19	2.61	38.07	0.12
1.2	0.15	-1.00	3.00	40.02	0.16
1.3	0.19	-0.80	3.39	41.96	0.21
1.4	0.23	-0.61	3.78	43.91	0.27
1.5	0.33	-0.41	4.17	45.86	0.34
1.6	0.39	-0.22	4.56	47.80	0.41
1.7	0.46	-0.03	4.95	49.75	0.49
1.8	0.59	0.17	5.34	51.69	0.57
1.9	0.65	0.36	5.73	53.64	0.64
2.0	0.77	0.56	6.12	55.58	0.71
2.1	0.81	0.75	6.51	57.53	0.77
2.2	0.84	0.95	6.90	59.48	0.83
2.3	0.90	1.14	7.28	61.42	0.87
2.4	0.91	1.34	7.67	63.37	0.91
2.5	0.94	1.53	8.06	65.31	0.94
2.6	0.96	1.73	8.45	67.26	0.96
2.7	0.96	1.92	8.84	69.21	0.97
2.8	0.98	2.12	9.00	71.15	0.98
2.9	0.98	2.31	9.00	73.10	0.99
3.0	1.00	2.50	9.00	75.04	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.02	-2.77	1.00	22.27	0.00
0.1	0.02	-2.61	1.00	23.92	0.00
0.2	0.03	-2.44	1.00	25.58	0.01
0.3	0.03	-2.28	1.00	27.24	0.01
0.4	0.04	-2.11	1.00	28.90	0.02
0.5	0.05	-1.94	1.11	30.55	0.03
0.6	0.05	-1.78	1.44	32.21	0.04
0.7	0.07	-1.61	1.77	33.87	0.05

score	perc_rank	z	stanine	T	perc_normal
0.8	0.07	-1.45	2.11	35.53	0.07
0.9	0.10	-1.28	2.44	37.18	0.10
1.0	0.15	-1.12	2.77	38.84	0.13
1.1	0.15	-0.95	3.10	40.50	0.17
1.2	0.21	-0.78	3.43	42.15	0.22
1.3	0.21	-0.62	3.76	43.81	0.27
1.4	0.29	-0.45	4.09	45.47	0.33
1.5	0.40	-0.29	4.43	47.13	0.39
1.6	0.40	-0.12	4.76	48.78	0.45
1.7	0.53	0.04	5.09	50.44	0.52
1.8	0.53	0.21	5.42	52.10	0.58
1.9	0.65	0.38	5.75	53.76	0.65
2.0	0.78	0.54	6.08	55.41	0.71
2.1	0.78	0.71	6.41	57.07	0.76
2.2	0.86	0.87	6.75	58.73	0.81
2.3	0.86	1.04	7.08	60.38	0.85
2.4	0.90	1.20	7.41	62.04	0.89
2.5	0.94	1.37	7.74	63.70	0.91
2.6	0.94	1.54	8.07	65.36	0.94
2.7	0.96	1.70	8.40	67.01	0.96
2.8	0.96	1.87	8.73	68.67	0.97
2.9	0.97	2.03	9.00	70.33	0.98
3.0	1.00	2.20	9.00	71.99	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.96	1.00	20.4	0.00
0.1	0.01	-2.79	1.00	22.1	0.00
0.2	0.02	-2.62	1.00	23.8	0.00
0.3	0.03	-2.45	1.00	25.5	0.01
0.4	0.03	-2.28	1.00	27.2	0.01
0.5	0.03	-2.11	1.00	28.9	0.02
0.6	0.04	-1.94	1.12	30.6	0.03
0.7	0.04	-1.77	1.46	32.3	0.04
0.8	0.05	-1.60	1.80	34.0	0.05
0.9	0.06	-1.43	2.14	35.7	0.08
1.0	0.12	-1.26	2.48	37.4	0.10
1.1	0.12	-1.09	2.82	39.1	0.14
1.2	0.15	-0.92	3.16	40.8	0.18
1.3	0.22	-0.75	3.50	42.5	0.23
1.4	0.22	-0.58	3.84	44.2	0.28
1.5	0.31	-0.41	4.18	45.9	0.34
1.6	0.41	-0.24	4.52	47.6	0.41
1.7	0.41	-0.07	4.86	49.3	0.47
1.8	0.51	0.10	5.20	51.0	0.54
1.9	0.62	0.27	5.54	52.7	0.61
2.0	0.76	0.44	5.88	54.4	0.67
2.1	0.76	0.61	6.22	56.1	0.73
2.2	0.82	0.78	6.56	57.8	0.78
2.3	0.86	0.95	6.90	59.5	0.83

score	perc_rank	z	stanine	T	perc_normal
2.4	0.86	1.12	7.24	61.2	0.87
2.5	0.90	1.29	7.58	62.9	0.90
2.6	0.94	1.46	7.92	64.6	0.93
2.7	0.94	1.63	8.26	66.3	0.95
2.8	0.96	1.80	8.60	68.0	0.96
2.9	0.97	1.97	8.94	69.7	0.98
3.0	1.00	2.14	9.00	71.4	0.98

Group: female \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.39	1.00	16.10	0.00
0.1	0.00	-3.19	1.00	18.08	0.00
0.2	0.00	-2.99	1.00	20.06	0.00
0.3	0.00	-2.80	1.00	22.03	0.00
0.4	0.00	-2.60	1.00	24.01	0.00
0.5	0.01	-2.40	1.00	25.99	0.01
0.6	0.01	-2.20	1.00	27.96	0.01
0.7	0.02	-2.01	1.00	29.94	0.02
0.8	0.04	-1.81	1.38	31.92	0.04
0.9	0.06	-1.61	1.78	33.89	0.05
1.0	0.10	-1.41	2.17	35.87	0.08
1.1	0.13	-1.22	2.57	37.85	0.11
1.2	0.15	-1.02	2.97	39.83	0.15
1.3	0.23	-0.82	3.36	41.80	0.21
1.4	0.28	-0.62	3.76	43.78	0.27
1.5	0.35	-0.42	4.15	45.76	0.34
1.6	0.40	-0.23	4.55	47.73	0.41
1.7	0.44	-0.03	4.94	49.71	0.49
1.8	0.57	0.17	5.34	51.69	0.57
1.9	0.62	0.37	5.73	53.66	0.64
2.0	0.75	0.56	6.13	55.64	0.71
2.1	0.79	0.76	6.52	57.62	0.78
2.2	0.83	0.96	6.92	59.59	0.83
2.3	0.88	1.16	7.31	61.57	0.88
2.4	0.90	1.35	7.71	63.55	0.91
2.5	0.95	1.55	8.10	65.52	0.94
2.6	0.97	1.75	8.50	67.50	0.96
2.7	0.97	1.95	8.90	69.48	0.97
2.8	1.00	2.15	9.00	71.45	0.98
2.9	1.00	2.34	9.00	73.43	0.99
3.0	1.00	2.54	9.00	75.41	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-2.95	1.00	20.46	0.00
0.1	0.00	-2.78	1.00	22.18	0.00
0.2	0.01	-2.61	1.00	23.89	0.00

score	perc_rank	z	stanine	T	perc_normal
0.3	0.01	-2.44	1.00	25.61	0.01
0.4	0.01	-2.27	1.00	27.32	0.01
0.5	0.03	-2.10	1.00	29.04	0.02
0.6	0.03	-1.92	1.15	30.75	0.03
0.7	0.06	-1.75	1.49	32.47	0.04
0.8	0.06	-1.58	1.84	34.19	0.06
0.9	0.09	-1.41	2.18	35.90	0.08
1.0	0.14	-1.24	2.52	37.62	0.11
1.1	0.14	-1.07	2.87	39.33	0.14
1.2	0.20	-0.90	3.21	41.05	0.19
1.3	0.20	-0.72	3.55	42.77	0.23
1.4	0.29	-0.55	3.90	44.48	0.29
1.5	0.39	-0.38	4.24	46.20	0.35
1.6	0.39	-0.21	4.58	47.91	0.42
1.7	0.50	-0.04	4.93	49.63	0.49
1.8	0.50	0.13	5.27	51.34	0.55
1.9	0.63	0.31	5.61	53.06	0.62
2.0	0.76	0.48	5.96	54.78	0.68
2.1	0.76	0.65	6.30	56.49	0.74
2.2	0.82	0.82	6.64	58.21	0.79
2.3	0.82	0.99	6.98	59.92	0.84
2.4	0.88	1.16	7.33	61.64	0.88
2.5	0.93	1.34	7.67	63.35	0.91
2.6	0.93	1.51	8.01	65.07	0.93
2.7	0.95	1.68	8.36	66.79	0.95
2.8	0.95	1.85	8.70	68.50	0.97
2.9	0.98	2.02	9.00	70.22	0.98
3.0	1.00	2.19	9.00	71.93	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.02	1.00	19.77	0.00
0.1	0.00	-2.85	1.00	21.52	0.00
0.2	0.00	-2.67	1.00	23.27	0.00
0.3	0.01	-2.50	1.00	25.02	0.01
0.4	0.01	-2.32	1.00	26.77	0.01
0.5	0.02	-2.15	1.00	28.53	0.02
0.6	0.03	-1.97	1.06	30.28	0.02
0.7	0.03	-1.80	1.41	32.03	0.04
0.8	0.05	-1.62	1.76	33.78	0.05
0.9	0.09	-1.45	2.11	35.53	0.07
1.0	0.14	-1.27	2.46	37.28	0.10
1.1	0.14	-1.10	2.81	39.03	0.14
1.2	0.18	-0.92	3.16	40.78	0.18
1.3	0.26	-0.75	3.51	42.53	0.23
1.4	0.26	-0.57	3.86	44.28	0.28
1.5	0.34	-0.40	4.21	46.03	0.35
1.6	0.42	-0.22	4.56	47.78	0.41
1.7	0.42	-0.05	4.91	49.53	0.48
1.8	0.51	0.13	5.26	51.28	0.55

score	perc_rank	z	stanine	T	perc_normal
1.9	0.63	0.30	5.61	53.03	0.62
2.0	0.75	0.48	5.96	54.78	0.68
2.1	0.75	0.65	6.31	56.53	0.74
2.2	0.83	0.83	6.66	58.28	0.80
2.3	0.87	1.00	7.01	60.03	0.84
2.4	0.87	1.18	7.36	61.79	0.88
2.5	0.90	1.35	7.71	63.54	0.91
2.6	0.93	1.53	8.06	65.29	0.94
2.7	0.93	1.70	8.41	67.04	0.96
2.8	0.97	1.88	8.76	68.79	0.97
2.9	0.98	2.05	9.00	70.54	0.98
3.0	1.00	2.23	9.00	72.29	0.99

Group: other \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.0	-7.42	1.00	-24.25	0.00
0.1	0.0	-6.93	1.00	-19.30	0.00
0.2	0.0	-6.43	1.00	-14.35	0.00
0.3	0.0	-5.94	1.00	-9.40	0.00
0.4	0.0	-5.44	1.00	-4.45	0.00
0.5	0.0	-4.95	1.00	0.50	0.00
0.6	0.0	-4.45	1.00	5.45	0.00
0.7	0.0	-3.96	1.00	10.40	0.00
0.8	0.0	-3.46	1.00	15.35	0.00
0.9	0.0	-2.97	1.00	20.30	0.00
1.0	0.0	-2.47	1.00	25.25	0.01
1.1	0.0	-1.98	1.04	30.20	0.02
1.2	0.0	-1.48	2.03	35.15	0.07
1.3	0.0	-0.99	3.02	40.10	0.16
1.4	0.5	-0.49	4.01	45.05	0.31
1.5	0.5	0.00	5.00	50.00	0.50
1.6	0.5	0.49	5.99	54.95	0.69
1.7	1.0	0.99	6.98	59.90	0.84
1.8	1.0	1.48	7.97	64.85	0.93
1.9	1.0	1.98	8.96	69.80	0.98
2.0	1.0	2.47	9.00	74.75	0.99
2.1	1.0	2.97	9.00	79.70	1.00
2.2	1.0	3.46	9.00	84.65	1.00
2.3	1.0	3.96	9.00	89.60	1.00
2.4	1.0	4.45	9.00	94.55	1.00
2.5	1.0	4.95	9.00	99.50	1.00
2.6	1.0	5.44	9.00	104.45	1.00
2.7	1.0	5.94	9.00	109.40	1.00
2.8	1.0	6.43	9.00	114.35	1.00
2.9	1.0	6.93	9.00	119.30	1.00
3.0	1.0	7.42	9.00	124.25	1.00

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0	-Inf	1	-Inf	0
0.1	0	-Inf	1	-Inf	0
0.2	0	-Inf	1	-Inf	0
0.3	0	-Inf	1	-Inf	0
0.4	0	-Inf	1	-Inf	0
0.5	0	-Inf	1	-Inf	0
0.6	0	-Inf	1	-Inf	0
0.7	0	-Inf	1	-Inf	0
0.8	0	-Inf	1	-Inf	0
0.9	0	-Inf	1	-Inf	0
1.0	0	-Inf	1	-Inf	0
1.1	0	-Inf	1	-Inf	0
1.2	0	-Inf	1	-Inf	0
1.3	0	-Inf	1	-Inf	0
1.4	1	Inf	9	Inf	1
1.5	1	Inf	9	Inf	1
1.6	1	Inf	9	Inf	1
1.7	1	Inf	9	Inf	1
1.8	1	Inf	9	Inf	1
1.9	1	Inf	9	Inf	1
2.0	1	Inf	9	Inf	1
2.1	1	Inf	9	Inf	1
2.2	1	Inf	9	Inf	1
2.3	1	Inf	9	Inf	1
2.4	1	Inf	9	Inf	1
2.5	1	Inf	9	Inf	1
2.6	1	Inf	9	Inf	1
2.7	1	Inf	9	Inf	1
2.8	1	Inf	9	Inf	1
2.9	1	Inf	9	Inf	1
3.0	1	Inf	9	Inf	1

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.0	-3.54	1.00	14.64	0.00
0.1	0.0	-3.34	1.00	16.62	0.00
0.2	0.0	-3.14	1.00	18.60	0.00
0.3	0.0	-2.94	1.00	20.58	0.00
0.4	0.0	-2.74	1.00	22.56	0.00
0.5	0.0	-2.55	1.00	24.54	0.01
0.6	0.0	-2.35	1.00	26.52	0.01
0.7	0.0	-2.15	1.00	28.50	0.02
0.8	0.0	-1.95	1.10	30.48	0.03
0.9	0.0	-1.75	1.49	32.46	0.04
1.0	0.0	-1.56	1.89	34.44	0.06
1.1	0.0	-1.36	2.28	36.42	0.09
1.2	0.0	-1.16	2.68	38.40	0.12
1.3	0.0	-0.96	3.08	40.38	0.17
1.4	0.0	-0.76	3.47	42.36	0.22
1.5	0.5	-0.57	3.87	44.34	0.29

score	perc_rank	z	stanine	T	perc_normal
1.6	0.5	-0.37	4.26	46.32	0.36
1.7	0.5	-0.17	4.66	48.30	0.43
1.8	0.5	0.03	5.06	50.28	0.51
1.9	0.5	0.23	5.45	52.26	0.59
2.0	0.5	0.42	5.85	54.24	0.66
2.1	0.5	0.62	6.24	56.22	0.73
2.2	1.0	0.82	6.64	58.20	0.79
2.3	1.0	1.02	7.04	60.18	0.85
2.4	1.0	1.22	7.43	62.16	0.89
2.5	1.0	1.41	7.83	64.14	0.92
2.6	1.0	1.61	8.22	66.12	0.95
2.7	1.0	1.81	8.62	68.10	0.96
2.8	1.0	2.01	9.00	70.08	0.98
2.9	1.0	2.21	9.00	72.06	0.99
3.0	1.0	2.40	9.00	74.04	0.99

6.2 Split by continuous mindfulness training

6.2.1 Stats

```
describe_fmi_stats(var = Achts_regel)
```

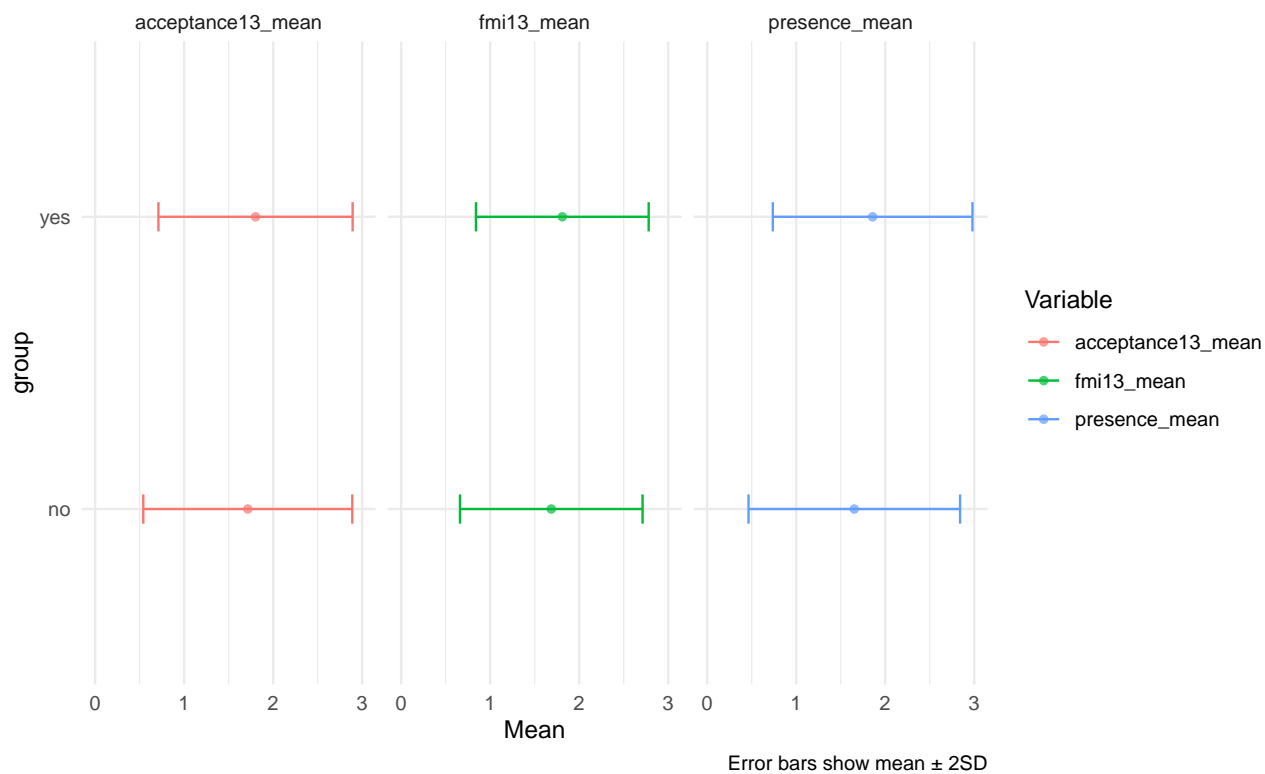
Table 17: Achts_regel=no

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptancel3_mean	1.72	0.57	0.59	(0.00, 3.00)	1.29, 2.00	-0.21	0.18	792	0
fmi13_mean	1.69	0.56	0.51	(0.21, 3.00)	1.36, 2.00	-0.16	0.05	792	0
presence_mean	1.65	0.55	0.59	(0.00, 3.00)	1.33, 2.00	-0.23	0.13	792	0

Table 18: Achts_regel=yes

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptancel3_mean	1.80	0.60	0.55	(0.00, 3.00)	1.43, 2.14	-0.19	0.64	220	0
fmi13_mean	1.81	0.60	0.49	(0.21, 3.00)	1.50, 2.07	-0.02	0.52	220	0
presence_mean	1.86	0.62	0.56	(0.00, 3.00)	1.50, 2.17	-0.20	0.45	220	0

```
plot_fmi_descriptives(var = Achts_regel)
```

6.2.2 Norms

```
for (i in unique(d2$Achts_regel)) {
  cat("Group: ", i, "\n")
  d2 %>%
    filter(Achts_regel == i) %>%
    select(ends_with("_mean")) %>%
    map(~ knitr::kable(compute_all_norms(., min_score = 0, max_score = 3, by = .1), digits = 2)) %>% print()
}
```

Group: no \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.29	1.00	17.11	0.00
0.1	0.00	-3.09	1.00	19.06	0.00
0.2	0.00	-2.90	1.00	21.01	0.00
0.3	0.01	-2.70	1.00	22.96	0.00
0.4	0.01	-2.51	1.00	24.91	0.01
0.5	0.02	-2.31	1.00	26.86	0.01
0.6	0.03	-2.12	1.00	28.81	0.02
0.7	0.03	-1.92	1.15	30.76	0.03
0.8	0.05	-1.73	1.54	32.71	0.04
0.9	0.06	-1.53	1.93	34.66	0.06
1.0	0.10	-1.34	2.32	36.61	0.09
1.1	0.13	-1.14	2.71	38.56	0.13
1.2	0.17	-0.95	3.10	40.51	0.17
1.3	0.23	-0.75	3.49	42.46	0.23
1.4	0.27	-0.56	3.88	44.41	0.29

score	perc_rank	z	stanine	T	perc_normal
1.5	0.36	-0.36	4.27	46.36	0.36
1.6	0.42	-0.17	4.66	48.31	0.43
1.7	0.48	0.03	5.05	50.26	0.51
1.8	0.60	0.22	5.44	52.21	0.59
1.9	0.65	0.42	5.83	54.16	0.66
2.0	0.78	0.61	6.22	56.11	0.73
2.1	0.81	0.81	6.61	58.06	0.79
2.2	0.84	1.00	7.00	60.01	0.84
2.3	0.90	1.20	7.39	61.97	0.88
2.4	0.91	1.39	7.78	63.92	0.92
2.5	0.95	1.59	8.17	65.87	0.94
2.6	0.97	1.78	8.56	67.82	0.96
2.7	0.97	1.98	8.95	69.77	0.98
2.8	0.99	2.17	9.00	71.72	0.99
2.9	0.99	2.37	9.00	73.67	0.99
3.0	1.00	2.56	9.00	75.62	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.78	1.00	22.18	0.00
0.1	0.01	-2.61	1.00	23.87	0.00
0.2	0.02	-2.44	1.00	25.55	0.01
0.3	0.02	-2.28	1.00	27.23	0.01
0.4	0.03	-2.11	1.00	28.92	0.02
0.5	0.05	-1.94	1.12	30.60	0.03
0.6	0.05	-1.77	1.46	32.28	0.04
0.7	0.07	-1.60	1.79	33.97	0.05
0.8	0.07	-1.44	2.13	35.65	0.08
0.9	0.10	-1.27	2.47	37.33	0.10
1.0	0.16	-1.10	2.80	39.02	0.14
1.1	0.16	-0.93	3.14	40.70	0.18
1.2	0.23	-0.76	3.48	42.38	0.22
1.3	0.23	-0.59	3.81	44.07	0.28
1.4	0.32	-0.43	4.15	45.75	0.34
1.5	0.43	-0.26	4.49	47.43	0.40
1.6	0.43	-0.09	4.82	49.12	0.46
1.7	0.55	0.08	5.16	50.80	0.53
1.8	0.55	0.25	5.50	52.48	0.60
1.9	0.67	0.42	5.83	54.16	0.66
2.0	0.79	0.58	6.17	55.85	0.72
2.1	0.79	0.75	6.51	57.53	0.77
2.2	0.85	0.92	6.84	59.21	0.82
2.3	0.85	1.09	7.18	60.90	0.86
2.4	0.90	1.26	7.52	62.58	0.90
2.5	0.94	1.43	7.85	64.26	0.92
2.6	0.94	1.59	8.19	65.95	0.94
2.7	0.97	1.76	8.53	67.63	0.96
2.8	0.97	1.93	8.86	69.31	0.97
2.9	0.98	2.10	9.00	71.00	0.98
3.0	1.00	2.27	9.00	72.68	0.99

score	perc_rank	z	stanine	T	perc_normal
-------	-----------	---	---------	---	-------------

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.92	1.00	20.78	0.00
0.1	0.01	-2.75	1.00	22.49	0.00
0.2	0.01	-2.58	1.00	24.19	0.00
0.3	0.02	-2.41	1.00	25.89	0.01
0.4	0.02	-2.24	1.00	27.60	0.01
0.5	0.03	-2.07	1.00	29.30	0.02
0.6	0.04	-1.90	1.20	31.00	0.03
0.7	0.04	-1.73	1.54	32.71	0.04
0.8	0.06	-1.56	1.88	34.41	0.06
0.9	0.09	-1.39	2.22	36.12	0.08
1.0	0.14	-1.22	2.56	37.82	0.11
1.1	0.14	-1.05	2.90	39.52	0.15
1.2	0.18	-0.88	3.25	41.23	0.19
1.3	0.26	-0.71	3.59	42.93	0.24
1.4	0.26	-0.54	3.93	44.63	0.30
1.5	0.34	-0.37	4.27	46.34	0.36
1.6	0.43	-0.20	4.61	48.04	0.42
1.7	0.43	-0.03	4.95	49.74	0.49
1.8	0.53	0.14	5.29	51.45	0.56
1.9	0.64	0.32	5.63	53.15	0.62
2.0	0.76	0.49	5.97	54.86	0.69
2.1	0.76	0.66	6.31	56.56	0.74
2.2	0.82	0.83	6.65	58.26	0.80
2.3	0.87	1.00	6.99	59.97	0.84
2.4	0.87	1.17	7.33	61.67	0.88
2.5	0.90	1.34	7.67	63.37	0.91
2.6	0.94	1.51	8.02	65.08	0.93
2.7	0.94	1.68	8.36	66.78	0.95
2.8	0.96	1.85	8.70	68.48	0.97
2.9	0.98	2.02	9.00	70.19	0.98
3.0	1.00	2.19	9.00	71.89	0.99

Group: yes \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.73	1.00	12.68	0.00
0.1	0.00	-3.53	1.00	14.74	0.00
0.2	0.00	-3.32	1.00	16.80	0.00
0.3	0.01	-3.11	1.00	18.86	0.00
0.4	0.01	-2.91	1.00	20.92	0.00
0.5	0.01	-2.70	1.00	22.99	0.00
0.6	0.01	-2.50	1.00	25.05	0.01
0.7	0.01	-2.29	1.00	27.11	0.01
0.8	0.02	-2.08	1.00	29.17	0.02
0.9	0.02	-1.88	1.25	31.23	0.03

score	perc_rank	z	stanine	T	perc_normal
1.0	0.06	-1.67	1.66	33.29	0.05
1.1	0.08	-1.46	2.07	35.35	0.07
1.2	0.09	-1.26	2.48	37.42	0.10
1.3	0.14	-1.05	2.90	39.48	0.15
1.4	0.19	-0.85	3.31	41.54	0.20
1.5	0.27	-0.64	3.72	43.60	0.26
1.6	0.32	-0.43	4.13	45.66	0.33
1.7	0.37	-0.23	4.54	47.72	0.41
1.8	0.51	-0.02	4.96	49.79	0.49
1.9	0.57	0.18	5.37	51.85	0.57
2.0	0.70	0.39	5.78	53.91	0.65
2.1	0.77	0.60	6.19	55.97	0.72
2.2	0.81	0.80	6.61	58.03	0.79
2.3	0.87	1.01	7.02	60.09	0.84
2.4	0.90	1.22	7.43	62.16	0.89
2.5	0.92	1.42	7.84	64.22	0.92
2.6	0.94	1.63	8.26	66.28	0.95
2.7	0.95	1.83	8.67	68.34	0.97
2.8	0.97	2.04	9.00	70.40	0.98
2.9	0.98	2.25	9.00	72.46	0.99
3.0	1.00	2.45	9.00	74.52	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-3.31	1.00	16.85	0.00
0.1	0.01	-3.14	1.00	18.64	0.00
0.2	0.01	-2.96	1.00	20.42	0.00
0.3	0.01	-2.78	1.00	22.20	0.00
0.4	0.01	-2.60	1.00	23.99	0.00
0.5	0.01	-2.42	1.00	25.77	0.01
0.6	0.01	-2.24	1.00	27.56	0.01
0.7	0.02	-2.07	1.00	29.34	0.02
0.8	0.02	-1.89	1.22	31.12	0.03
0.9	0.05	-1.71	1.58	32.91	0.04
1.0	0.09	-1.53	1.94	34.69	0.06
1.1	0.09	-1.35	2.29	36.47	0.09
1.2	0.12	-1.17	2.65	38.26	0.12
1.3	0.12	-1.00	3.01	40.04	0.16
1.4	0.20	-0.82	3.36	41.82	0.21
1.5	0.29	-0.64	3.72	43.61	0.26
1.6	0.29	-0.46	4.08	45.39	0.32
1.7	0.40	-0.28	4.44	47.18	0.39
1.8	0.40	-0.10	4.79	48.96	0.46
1.9	0.53	0.07	5.15	50.74	0.53
2.0	0.69	0.25	5.51	52.53	0.60
2.1	0.69	0.43	5.86	54.31	0.67
2.2	0.79	0.61	6.22	56.09	0.73
2.3	0.79	0.79	6.58	57.88	0.78
2.4	0.85	0.97	6.93	59.66	0.83
2.5	0.90	1.14	7.29	61.45	0.87

score	perc_rank	z	stanine	T	perc_normal
2.6	0.90	1.32	7.65	63.23	0.91
2.7	0.92	1.50	8.00	65.01	0.93
2.8	0.92	1.68	8.36	66.80	0.95
2.9	0.96	1.86	8.72	68.58	0.97
3.0	1.00	2.04	9.00	70.36	0.98

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.30	1.00	16.96	0.00
0.1	0.00	-3.12	1.00	18.80	0.00
0.2	0.01	-2.94	1.00	20.63	0.00
0.3	0.01	-2.75	1.00	22.46	0.00
0.4	0.01	-2.57	1.00	24.30	0.01
0.5	0.02	-2.39	1.00	26.13	0.01
0.6	0.02	-2.20	1.00	27.96	0.01
0.7	0.02	-2.02	1.00	29.80	0.02
0.8	0.03	-1.84	1.33	31.63	0.03
0.9	0.05	-1.65	1.69	33.46	0.05
1.0	0.09	-1.47	2.06	35.30	0.07
1.1	0.09	-1.29	2.43	37.13	0.10
1.2	0.12	-1.10	2.79	38.96	0.13
1.3	0.18	-0.92	3.16	40.80	0.18
1.4	0.18	-0.74	3.53	42.63	0.23
1.5	0.27	-0.55	3.89	44.46	0.29
1.6	0.38	-0.37	4.26	46.30	0.36
1.7	0.38	-0.19	4.63	48.13	0.43
1.8	0.45	0.00	4.99	49.96	0.50
1.9	0.59	0.18	5.36	51.80	0.57
2.0	0.73	0.36	5.73	53.63	0.64
2.1	0.73	0.55	6.09	55.46	0.71
2.2	0.83	0.73	6.46	57.30	0.77
2.3	0.86	0.91	6.83	59.13	0.82
2.4	0.86	1.10	7.19	60.97	0.86
2.5	0.90	1.28	7.56	62.80	0.90
2.6	0.92	1.46	7.93	64.63	0.93
2.7	0.92	1.65	8.29	66.47	0.95
2.8	0.95	1.83	8.66	68.30	0.97
2.9	0.97	2.01	9.00	70.13	0.98
3.0	1.00	2.20	9.00	71.97	0.99

6.3 Split by retreats

6.3.1 Stats

```
describe_fmi_stats(var = Retreats)
```

Table 25: Retreats=Multiple retreats per year

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.81	0.60	0.48	(0.71, 3.00)	1.57, 2.04	-0.03	-0.06	116	0
fmi13_mean	1.82	0.61	0.43	(0.71, 3.00)	1.57, 2.00	0.03	0.32	116	0
presence_mean	1.84	0.61	0.50	(0.33, 3.00)	1.50, 2.04	-0.15	0.28	116	0

Table 26: Retreats=Never

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.70	0.57	0.60	(0.00, 3.00)	1.29, 2.00	-0.27	0.21	673	0
fmi13_mean	1.68	0.56	0.52	(0.21, 3.00)	1.36, 2.00	-0.18	0.10	673	0
presence_mean	1.64	0.55	0.59	(0.00, 3.00)	1.33, 2.00	-0.28	0.20	673	0

Table 27: Retreats=Once a year

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.73	0.58	0.50	(0.71, 3.00)	1.43, 2.00	0.59	0.46	58	0
fmi13_mean	1.71	0.57	0.45	(0.57, 2.93)	1.43, 1.98	0.30	0.36	58	0
presence_mean	1.68	0.56	0.55	(0.17, 3.00)	1.33, 2.00	0.04	0.25	58	0

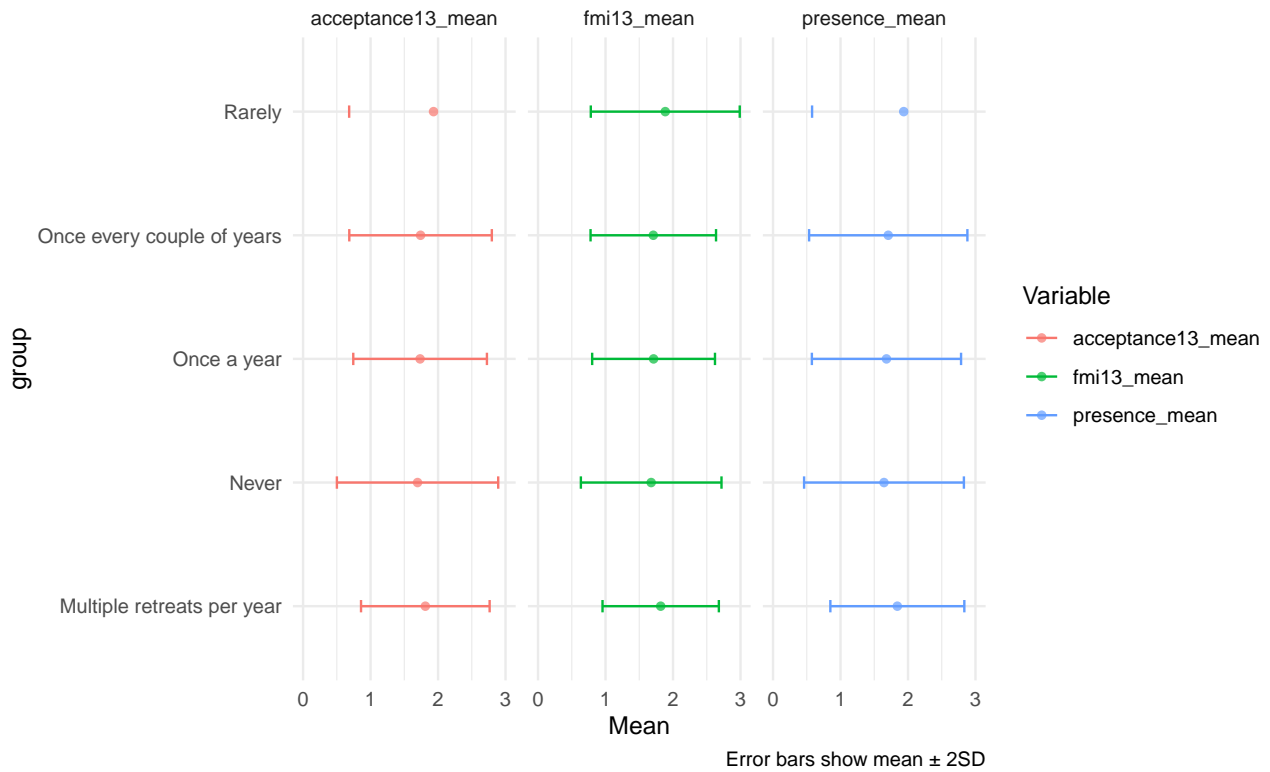
Table 28: Retreats=Once every couple of years

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.74	0.58	0.53	(0.29, 3.00)	1.43, 2.11	0.14	0.12	86	0
fmi13_mean	1.71	0.57	0.46	(0.93, 2.93)	1.36, 2.07	0.38	-0.32	86	0
presence_mean	1.71	0.57	0.59	(0.67, 3.00)	1.33, 2.17	0.20	-0.44	86	0

Table 29: Retreats=Rarely

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.93	0.64	0.63	(0.14, 3.00)	1.57, 2.29	-0.38	0.35	79	0
fmi13_mean	1.89	0.63	0.55	(0.29, 2.79)	1.57, 2.29	-0.51	0.60	79	0
presence_mean	1.94	0.65	0.68	(0.00, 3.00)	1.50, 2.33	-0.60	0.63	79	0

```
plot_fmi_descriptives(var = Retreats)
```



6.3.2 Norms

```
for (i in unique(d2$Retreats)) {
  cat("Group: ", i, "\n")
  d2 %>%
    filter(Retreats == i) %>%
    select(ends_with("_mean")) %>%
    map(~ knitr::kable(compute_all_norms(., min_score = 0, max_score = 3, by = .1), digits = 2)) %>%
    print()
}
```

Group: Never \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.22	1.00	17.82	0.00
0.1	0.00	-3.03	1.00	19.74	0.00
0.2	0.00	-2.83	1.00	21.66	0.00
0.3	0.01	-2.64	1.00	23.58	0.00
0.4	0.01	-2.45	1.00	25.50	0.01
0.5	0.02	-2.26	1.00	27.42	0.01
0.6	0.03	-2.07	1.00	29.34	0.02
0.7	0.04	-1.87	1.25	31.26	0.03
0.8	0.06	-1.68	1.64	33.18	0.05
0.9	0.07	-1.49	2.02	35.10	0.07
1.0	0.11	-1.30	2.40	37.02	0.10
1.1	0.14	-1.11	2.79	38.94	0.13
1.2	0.17	-0.91	3.17	40.86	0.18
1.3	0.24	-0.72	3.56	42.78	0.24

score	perc_rank	z	stanine	T	perc_normal
1.4	0.29	-0.53	3.94	44.70	0.30
1.5	0.36	-0.34	4.32	46.62	0.37
1.6	0.41	-0.15	4.71	48.54	0.44
1.7	0.47	0.05	5.09	50.46	0.52
1.8	0.60	0.24	5.47	52.37	0.59
1.9	0.66	0.43	5.86	54.29	0.67
2.0	0.77	0.62	6.24	56.21	0.73
2.1	0.81	0.81	6.63	58.13	0.79
2.2	0.85	1.01	7.01	60.05	0.84
2.3	0.90	1.20	7.39	61.97	0.88
2.4	0.92	1.39	7.78	63.89	0.92
2.5	0.95	1.58	8.16	65.81	0.94
2.6	0.97	1.77	8.55	67.73	0.96
2.7	0.97	1.97	8.93	69.65	0.98
2.8	0.99	2.16	9.00	71.57	0.98
2.9	0.99	2.35	9.00	73.49	0.99
3.0	1.00	2.54	9.00	75.41	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.78	1.00	22.23	0.00
0.1	0.01	-2.61	1.00	23.91	0.00
0.2	0.02	-2.44	1.00	25.60	0.01
0.3	0.02	-2.27	1.00	27.29	0.01
0.4	0.03	-2.10	1.00	28.98	0.02
0.5	0.05	-1.93	1.13	30.67	0.03
0.6	0.05	-1.76	1.47	32.36	0.04
0.7	0.08	-1.60	1.81	34.05	0.06
0.8	0.08	-1.43	2.15	35.74	0.08
0.9	0.11	-1.26	2.49	37.43	0.10
1.0	0.16	-1.09	2.82	39.12	0.14
1.1	0.16	-0.92	3.16	40.81	0.18
1.2	0.23	-0.75	3.50	42.49	0.23
1.3	0.23	-0.58	3.84	44.18	0.28
1.4	0.32	-0.41	4.17	45.87	0.34
1.5	0.42	-0.24	4.51	47.56	0.40
1.6	0.42	-0.07	4.85	49.25	0.47
1.7	0.55	0.09	5.19	50.94	0.54
1.8	0.55	0.26	5.53	52.63	0.60
1.9	0.68	0.43	5.86	54.32	0.67
2.0	0.80	0.60	6.20	56.01	0.73
2.1	0.80	0.77	6.54	57.70	0.78
2.2	0.86	0.94	6.88	59.38	0.83
2.3	0.86	1.11	7.21	61.07	0.87
2.4	0.91	1.28	7.55	62.76	0.90
2.5	0.95	1.45	7.89	64.45	0.93
2.6	0.95	1.61	8.23	66.14	0.95
2.7	0.97	1.78	8.57	67.83	0.96
2.8	0.97	1.95	8.90	69.52	0.97
2.9	0.98	2.12	9.00	71.21	0.98

score	perc_rank	z	stanine	T	perc_normal
3.0	1.00	2.29	9.00	72.90	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.84	1.00	21.61	0.00
0.1	0.01	-2.67	1.00	23.29	0.00
0.2	0.02	-2.50	1.00	24.96	0.01
0.3	0.02	-2.34	1.00	26.63	0.01
0.4	0.02	-2.17	1.00	28.31	0.02
0.5	0.03	-2.00	1.00	29.98	0.02
0.6	0.05	-1.83	1.33	31.65	0.03
0.7	0.05	-1.67	1.67	33.33	0.05
0.8	0.07	-1.50	2.00	35.00	0.07
0.9	0.10	-1.33	2.33	36.67	0.09
1.0	0.15	-1.17	2.67	38.35	0.12
1.1	0.15	-1.00	3.00	40.02	0.16
1.2	0.20	-0.83	3.34	41.69	0.20
1.3	0.27	-0.66	3.67	43.37	0.25
1.4	0.27	-0.50	4.01	45.04	0.31
1.5	0.35	-0.33	4.34	46.72	0.37
1.6	0.43	-0.16	4.68	48.39	0.44
1.7	0.43	0.01	5.01	50.06	0.50
1.8	0.53	0.17	5.35	51.74	0.57
1.9	0.64	0.34	5.68	53.41	0.63
2.0	0.76	0.51	6.02	55.08	0.69
2.1	0.76	0.68	6.35	56.76	0.75
2.2	0.83	0.84	6.69	58.43	0.80
2.3	0.87	1.01	7.02	60.10	0.84
2.4	0.87	1.18	7.36	61.78	0.88
2.5	0.91	1.35	7.69	63.45	0.91
2.6	0.95	1.51	8.03	65.13	0.93
2.7	0.95	1.68	8.36	66.80	0.95
2.8	0.96	1.85	8.69	68.47	0.97
2.9	0.98	2.01	9.00	70.15	0.98
3.0	1.00	2.18	9.00	71.82	0.99

Group: Once every couple of years \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.67	1.00	13.26	0.00
0.1	0.00	-3.46	1.00	15.41	0.00
0.2	0.00	-3.24	1.00	17.56	0.00
0.3	0.00	-3.03	1.00	19.72	0.00
0.4	0.00	-2.81	1.00	21.87	0.00
0.5	0.00	-2.60	1.00	24.02	0.00
0.6	0.00	-2.38	1.00	26.17	0.01
0.7	0.00	-2.17	1.00	28.32	0.02
0.8	0.00	-1.95	1.09	30.47	0.03

score	perc_rank	z	stanine	T	perc_normal
0.9	0.00	-1.74	1.52	32.62	0.04
1.0	0.07	-1.52	1.96	34.78	0.06
1.1	0.09	-1.31	2.39	36.93	0.10
1.2	0.14	-1.09	2.82	39.08	0.14
1.3	0.23	-0.88	3.25	41.23	0.19
1.4	0.28	-0.66	3.68	43.38	0.25
1.5	0.37	-0.45	4.11	45.53	0.33
1.6	0.48	-0.23	4.54	47.68	0.41
1.7	0.51	-0.02	4.97	49.84	0.49
1.8	0.60	0.20	5.40	51.99	0.58
1.9	0.63	0.41	5.83	54.14	0.66
2.0	0.73	0.63	6.26	56.29	0.74
2.1	0.80	0.84	6.69	58.44	0.80
2.2	0.87	1.06	7.12	60.59	0.86
2.3	0.92	1.27	7.55	62.74	0.90
2.4	0.92	1.49	7.98	64.90	0.93
2.5	0.95	1.70	8.41	67.05	0.96
2.6	0.97	1.92	8.84	69.20	0.97
2.7	0.97	2.14	9.00	71.35	0.98
2.8	0.99	2.35	9.00	73.50	0.99
2.9	0.99	2.57	9.00	75.65	0.99
3.0	1.00	2.78	9.00	77.80	1.00

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-2.91	1.00	20.88	0.00
0.1	0.00	-2.74	1.00	22.58	0.00
0.2	0.00	-2.57	1.00	24.29	0.01
0.3	0.00	-2.40	1.00	26.00	0.01
0.4	0.00	-2.23	1.00	27.70	0.01
0.5	0.00	-2.06	1.00	29.41	0.02
0.6	0.00	-1.89	1.22	31.11	0.03
0.7	0.05	-1.72	1.56	32.82	0.04
0.8	0.05	-1.55	1.90	34.52	0.06
0.9	0.10	-1.38	2.25	36.23	0.08
1.0	0.17	-1.21	2.59	37.94	0.11
1.1	0.17	-1.04	2.93	39.64	0.15
1.2	0.22	-0.87	3.27	41.35	0.19
1.3	0.22	-0.69	3.61	43.05	0.24
1.4	0.29	-0.52	3.95	44.76	0.30
1.5	0.45	-0.35	4.29	46.46	0.36
1.6	0.45	-0.18	4.63	48.17	0.43
1.7	0.56	-0.01	4.97	49.87	0.49
1.8	0.56	0.16	5.32	51.58	0.56
1.9	0.63	0.33	5.66	53.29	0.63
2.0	0.72	0.50	6.00	54.99	0.69
2.1	0.72	0.67	6.34	56.70	0.75
2.2	0.81	0.84	6.68	58.40	0.80
2.3	0.81	1.01	7.02	60.11	0.84
2.4	0.92	1.18	7.36	61.81	0.88

score	perc_rank	z	stanine	T	perc_normal
2.5	0.93	1.35	7.70	63.52	0.91
2.6	0.93	1.52	8.04	65.22	0.94
2.7	0.93	1.69	8.39	66.93	0.95
2.8	0.93	1.86	8.73	68.64	0.97
2.9	0.97	2.03	9.00	70.34	0.98
3.0	1.00	2.20	9.00	72.05	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.30	1.00	17.03	0.00
0.1	0.00	-3.11	1.00	18.92	0.00
0.2	0.00	-2.92	1.00	20.82	0.00
0.3	0.01	-2.73	1.00	22.71	0.00
0.4	0.01	-2.54	1.00	24.60	0.01
0.5	0.01	-2.35	1.00	26.50	0.01
0.6	0.01	-2.16	1.00	28.39	0.02
0.7	0.01	-1.97	1.06	30.29	0.02
0.8	0.01	-1.78	1.44	32.18	0.04
0.9	0.05	-1.59	1.81	34.07	0.06
1.0	0.12	-1.40	2.19	35.97	0.08
1.1	0.12	-1.21	2.57	37.86	0.11
1.2	0.15	-1.02	2.95	39.76	0.15
1.3	0.21	-0.84	3.33	41.65	0.20
1.4	0.21	-0.65	3.71	43.54	0.26
1.5	0.35	-0.46	4.09	45.44	0.32
1.6	0.45	-0.27	4.47	47.33	0.39
1.7	0.45	-0.08	4.85	49.23	0.47
1.8	0.55	0.11	5.22	51.12	0.54
1.9	0.63	0.30	5.60	53.01	0.62
2.0	0.74	0.49	5.98	54.91	0.69
2.1	0.74	0.68	6.36	56.80	0.75
2.2	0.84	0.87	6.74	58.70	0.81
2.3	0.87	1.06	7.12	60.59	0.86
2.4	0.87	1.25	7.50	62.48	0.89
2.5	0.93	1.44	7.88	64.38	0.92
2.6	0.95	1.63	8.25	66.27	0.95
2.7	0.95	1.82	8.63	68.17	0.97
2.8	0.97	2.01	9.00	70.06	0.98
2.9	0.97	2.20	9.00	71.95	0.99
3.0	1.00	2.38	9.00	73.85	0.99

Group: Multiple retreats per year \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-4.22	1.00	7.83	0.00
0.1	0.00	-3.99	1.00	10.15	0.00
0.2	0.00	-3.75	1.00	12.47	0.00
0.3	0.00	-3.52	1.00	14.79	0.00

score	perc_rank	z	stanine	T	perc_normal
0.4	0.00	-3.29	1.00	17.11	0.00
0.5	0.00	-3.06	1.00	19.43	0.00
0.6	0.00	-2.82	1.00	21.75	0.00
0.7	0.00	-2.59	1.00	24.07	0.00
0.8	0.02	-2.36	1.00	26.39	0.01
0.9	0.02	-2.13	1.00	28.71	0.02
1.0	0.03	-1.90	1.21	31.04	0.03
1.1	0.07	-1.66	1.67	33.36	0.05
1.2	0.09	-1.43	2.14	35.68	0.08
1.3	0.13	-1.20	2.60	38.00	0.12
1.4	0.16	-0.97	3.06	40.32	0.17
1.5	0.22	-0.74	3.53	42.64	0.23
1.6	0.28	-0.50	3.99	44.96	0.31
1.7	0.34	-0.27	4.46	47.28	0.39
1.8	0.51	-0.04	4.92	49.60	0.48
1.9	0.59	0.19	5.38	51.92	0.58
2.0	0.76	0.42	5.85	54.24	0.66
2.1	0.78	0.66	6.31	56.57	0.74
2.2	0.80	0.89	6.78	58.89	0.81
2.3	0.90	1.12	7.24	61.21	0.87
2.4	0.91	1.35	7.71	63.53	0.91
2.5	0.93	1.58	8.17	65.85	0.94
2.6	0.95	1.82	8.63	68.17	0.97
2.7	0.97	2.05	9.00	70.49	0.98
2.8	0.99	2.28	9.00	72.81	0.99
2.9	0.99	2.51	9.00	75.13	0.99
3.0	1.00	2.75	9.00	77.45	1.00

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.71	1.00	12.89	0.00
0.1	0.00	-3.51	1.00	14.90	0.00
0.2	0.00	-3.31	1.00	16.92	0.00
0.3	0.00	-3.11	1.00	18.93	0.00
0.4	0.01	-2.91	1.00	20.95	0.00
0.5	0.01	-2.70	1.00	22.96	0.00
0.6	0.01	-2.50	1.00	24.98	0.01
0.7	0.02	-2.30	1.00	26.99	0.01
0.8	0.02	-2.10	1.00	29.01	0.02
0.9	0.03	-1.90	1.20	31.02	0.03
1.0	0.08	-1.70	1.61	33.03	0.04
1.1	0.08	-1.50	2.01	35.05	0.07
1.2	0.12	-1.29	2.41	37.06	0.10
1.3	0.12	-1.09	2.82	39.08	0.14
1.4	0.18	-0.89	3.22	41.09	0.19
1.5	0.28	-0.69	3.62	43.11	0.25
1.6	0.28	-0.49	4.02	45.12	0.31
1.7	0.39	-0.29	4.43	47.14	0.39
1.8	0.39	-0.08	4.83	49.15	0.47
1.9	0.52	0.12	5.23	51.17	0.55

score	perc_rank	z	stanine	T	perc_normal
2.0	0.75	0.32	5.64	53.18	0.62
2.1	0.75	0.52	6.04	55.20	0.70
2.2	0.84	0.72	6.44	57.21	0.76
2.3	0.84	0.92	6.85	59.23	0.82
2.4	0.86	1.12	7.25	61.24	0.87
2.5	0.92	1.33	7.65	63.26	0.91
2.6	0.92	1.53	8.05	65.27	0.94
2.7	0.97	1.73	8.46	67.29	0.96
2.8	0.97	1.93	8.86	69.30	0.97
2.9	0.98	2.13	9.00	71.32	0.98
3.0	1.00	2.33	9.00	73.33	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.80	1.00	11.98	0.00
0.1	0.00	-3.59	1.00	14.08	0.00
0.2	0.00	-3.38	1.00	16.18	0.00
0.3	0.00	-3.17	1.00	18.27	0.00
0.4	0.00	-2.96	1.00	20.37	0.00
0.5	0.00	-2.75	1.00	22.47	0.00
0.6	0.00	-2.54	1.00	24.57	0.01
0.7	0.00	-2.33	1.00	26.67	0.01
0.8	0.02	-2.12	1.00	28.77	0.02
0.9	0.03	-1.91	1.17	30.87	0.03
1.0	0.09	-1.70	1.59	32.97	0.04
1.1	0.09	-1.49	2.01	35.07	0.07
1.2	0.11	-1.28	2.43	37.16	0.10
1.3	0.18	-1.07	2.85	39.26	0.14
1.4	0.18	-0.86	3.27	41.36	0.19
1.5	0.23	-0.65	3.69	43.46	0.26
1.6	0.33	-0.44	4.11	45.56	0.33
1.7	0.33	-0.23	4.53	47.66	0.41
1.8	0.43	-0.02	4.95	49.76	0.49
1.9	0.60	0.19	5.37	51.86	0.57
2.0	0.75	0.40	5.79	53.95	0.65
2.1	0.75	0.61	6.21	56.05	0.73
2.2	0.84	0.82	6.63	58.15	0.79
2.3	0.88	1.03	7.05	60.25	0.85
2.4	0.88	1.24	7.47	62.35	0.89
2.5	0.91	1.44	7.89	64.45	0.93
2.6	0.93	1.65	8.31	66.55	0.95
2.7	0.93	1.86	8.73	68.65	0.97
2.8	0.99	2.07	9.00	70.75	0.98
2.9	0.99	2.28	9.00	72.84	0.99
3.0	1.00	2.49	9.00	74.94	0.99

Group: Rarely \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.42	1.00	15.83	0.00
0.1	0.00	-3.24	1.00	17.64	0.00
0.2	0.00	-3.05	1.00	19.45	0.00
0.3	0.01	-2.87	1.00	21.27	0.00
0.4	0.01	-2.69	1.00	23.08	0.00
0.5	0.04	-2.51	1.00	24.89	0.01
0.6	0.04	-2.33	1.00	26.70	0.01
0.7	0.04	-2.15	1.00	28.52	0.02
0.8	0.05	-1.97	1.07	30.33	0.02
0.9	0.05	-1.79	1.43	32.14	0.04
1.0	0.05	-1.60	1.79	33.95	0.05
1.1	0.08	-1.42	2.15	35.77	0.08
1.2	0.08	-1.24	2.52	37.58	0.11
1.3	0.09	-1.06	2.88	39.39	0.14
1.4	0.13	-0.88	3.24	41.21	0.19
1.5	0.24	-0.70	3.60	43.02	0.24
1.6	0.30	-0.52	3.97	44.83	0.30
1.7	0.35	-0.34	4.33	46.64	0.37
1.8	0.44	-0.15	4.69	48.46	0.44
1.9	0.49	0.03	5.05	50.27	0.51
2.0	0.63	0.21	5.42	52.08	0.58
2.1	0.68	0.39	5.78	53.89	0.65
2.2	0.71	0.57	6.14	55.71	0.72
2.3	0.77	0.75	6.50	57.52	0.77
2.4	0.80	0.93	6.87	59.33	0.82
2.5	0.89	1.11	7.23	61.14	0.87
2.6	0.90	1.30	7.59	62.96	0.90
2.7	0.90	1.48	7.95	64.77	0.93
2.8	1.00	1.66	8.32	66.58	0.95
2.9	1.00	1.84	8.68	68.40	0.97
3.0	1.00	2.02	9.00	70.21	0.98

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.03	-2.85	1.00	21.48	0.00
0.1	0.03	-2.71	1.00	22.95	0.00
0.2	0.04	-2.56	1.00	24.42	0.01
0.3	0.04	-2.41	1.00	25.90	0.01
0.4	0.04	-2.26	1.00	27.37	0.01
0.5	0.04	-2.12	1.00	28.84	0.02
0.6	0.04	-1.97	1.06	30.31	0.02
0.7	0.05	-1.82	1.36	31.79	0.03
0.8	0.05	-1.67	1.65	33.26	0.05
0.9	0.05	-1.53	1.95	34.73	0.06
1.0	0.08	-1.38	2.24	36.20	0.08
1.1	0.08	-1.23	2.54	37.68	0.11
1.2	0.15	-1.08	2.83	39.15	0.14
1.3	0.15	-0.94	3.12	40.62	0.17
1.4	0.19	-0.79	3.42	42.10	0.21
1.5	0.28	-0.64	3.71	43.57	0.26

score	perc_rank	z	stanine	T	perc_normal
1.6	0.28	-0.50	4.01	45.04	0.31
1.7	0.35	-0.35	4.30	46.51	0.36
1.8	0.35	-0.20	4.60	47.99	0.42
1.9	0.46	-0.05	4.89	49.46	0.48
2.0	0.58	0.09	5.19	50.93	0.54
2.1	0.58	0.24	5.48	52.40	0.60
2.2	0.68	0.39	5.78	53.88	0.65
2.3	0.68	0.54	6.07	55.35	0.70
2.4	0.76	0.68	6.36	56.82	0.75
2.5	0.82	0.83	6.66	58.30	0.80
2.6	0.82	0.98	6.95	59.77	0.84
2.7	0.87	1.12	7.25	61.24	0.87
2.8	0.87	1.27	7.54	62.71	0.90
2.9	0.91	1.42	7.84	64.19	0.92
3.0	1.00	1.57	8.13	65.66	0.94

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.09	1.00	19.08	0.00
0.1	0.00	-2.93	1.00	20.68	0.00
0.2	0.01	-2.77	1.00	22.28	0.00
0.3	0.03	-2.61	1.00	23.88	0.00
0.4	0.03	-2.45	1.00	25.48	0.01
0.5	0.03	-2.29	1.00	27.08	0.01
0.6	0.05	-2.13	1.00	28.68	0.02
0.7	0.05	-1.97	1.06	30.28	0.02
0.8	0.05	-1.81	1.37	31.87	0.03
0.9	0.05	-1.65	1.69	33.47	0.05
1.0	0.05	-1.49	2.01	35.07	0.07
1.1	0.05	-1.33	2.33	36.67	0.09
1.2	0.09	-1.17	2.65	38.27	0.12
1.3	0.15	-1.01	2.97	39.87	0.16
1.4	0.15	-0.85	3.29	41.47	0.20
1.5	0.24	-0.69	3.61	43.07	0.24
1.6	0.29	-0.53	3.93	44.67	0.30
1.7	0.29	-0.37	4.25	46.27	0.35
1.8	0.41	-0.21	4.57	47.87	0.42
1.9	0.47	-0.05	4.89	49.47	0.48
2.0	0.63	0.11	5.21	51.07	0.54
2.1	0.63	0.27	5.53	52.67	0.61
2.2	0.70	0.43	5.85	54.27	0.67
2.3	0.76	0.59	6.17	55.87	0.72
2.4	0.76	0.75	6.49	57.47	0.77
2.5	0.78	0.91	6.81	59.07	0.82
2.6	0.85	1.07	7.13	60.67	0.86
2.7	0.85	1.23	7.45	62.27	0.89
2.8	0.90	1.39	7.77	63.87	0.92
2.9	0.94	1.55	8.09	65.47	0.94
3.0	1.00	1.71	8.41	67.07	0.96

Group: Once a year \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.76	1.00	12.37	0.00
0.1	0.00	-3.54	1.00	14.57	0.00
0.2	0.00	-3.32	1.00	16.77	0.00
0.3	0.00	-3.10	1.00	18.96	0.00
0.4	0.00	-2.88	1.00	21.16	0.00
0.5	0.00	-2.66	1.00	23.36	0.00
0.6	0.02	-2.44	1.00	25.56	0.01
0.7	0.02	-2.22	1.00	27.76	0.01
0.8	0.02	-2.00	1.00	29.96	0.02
0.9	0.02	-1.78	1.43	32.15	0.04
1.0	0.07	-1.56	1.87	34.35	0.06
1.1	0.07	-1.34	2.31	36.55	0.09
1.2	0.10	-1.13	2.75	38.75	0.13
1.3	0.14	-0.91	3.19	40.95	0.18
1.4	0.21	-0.69	3.63	43.15	0.25
1.5	0.38	-0.47	4.07	45.34	0.32
1.6	0.45	-0.25	4.51	47.54	0.40
1.7	0.52	-0.03	4.95	49.74	0.49
1.8	0.66	0.19	5.39	51.94	0.58
1.9	0.67	0.41	5.83	54.14	0.66
2.0	0.79	0.63	6.27	56.33	0.74
2.1	0.83	0.85	6.71	58.53	0.80
2.2	0.83	1.07	7.15	60.73	0.86
2.3	0.90	1.29	7.59	62.93	0.90
2.4	0.91	1.51	8.03	65.13	0.93
2.5	0.95	1.73	8.47	67.33	0.96
2.6	0.97	1.95	8.90	69.52	0.97
2.7	0.98	2.17	9.00	71.72	0.99
2.8	0.98	2.39	9.00	73.92	0.99
2.9	0.98	2.61	9.00	76.12	1.00
3.0	1.00	2.83	9.00	78.32	1.00

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.04	1.00	19.58	0.00
0.1	0.00	-2.86	1.00	21.39	0.00
0.2	0.02	-2.68	1.00	23.20	0.00
0.3	0.02	-2.50	1.00	25.01	0.01
0.4	0.02	-2.32	1.00	26.82	0.01
0.5	0.02	-2.14	1.00	28.63	0.02
0.6	0.02	-1.96	1.09	30.44	0.03
0.7	0.03	-1.78	1.45	32.25	0.04
0.8	0.03	-1.59	1.81	34.06	0.06
0.9	0.05	-1.41	2.17	35.87	0.08
1.0	0.14	-1.23	2.54	37.68	0.11
1.1	0.14	-1.05	2.90	39.49	0.15
1.2	0.21	-0.87	3.26	41.29	0.19
1.3	0.21	-0.69	3.62	43.10	0.25

score	perc_rank	z	stanine	T	perc_normal
1.4	0.33	-0.51	3.98	44.91	0.31
1.5	0.43	-0.33	4.34	46.72	0.37
1.6	0.43	-0.15	4.71	48.53	0.44
1.7	0.57	0.03	5.07	50.34	0.51
1.8	0.57	0.22	5.43	52.15	0.59
1.9	0.67	0.40	5.79	53.96	0.65
2.0	0.79	0.58	6.15	55.77	0.72
2.1	0.79	0.76	6.52	57.58	0.78
2.2	0.86	0.94	6.88	59.39	0.83
2.3	0.86	1.12	7.24	61.20	0.87
2.4	0.88	1.30	7.60	63.01	0.90
2.5	0.95	1.48	7.96	64.82	0.93
2.6	0.95	1.66	8.33	66.63	0.95
2.7	0.97	1.84	8.69	68.44	0.97
2.8	0.97	2.02	9.00	70.25	0.98
2.9	0.98	2.21	9.00	72.06	0.99
3.0	1.00	2.39	9.00	73.87	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.50	1.00	14.98	0.00
0.1	0.00	-3.30	1.00	17.00	0.00
0.2	0.00	-3.10	1.00	19.02	0.00
0.3	0.00	-2.90	1.00	21.04	0.00
0.4	0.00	-2.69	1.00	23.06	0.00
0.5	0.00	-2.49	1.00	25.08	0.01
0.6	0.00	-2.29	1.00	27.10	0.01
0.7	0.00	-2.09	1.00	29.12	0.02
0.8	0.02	-1.89	1.23	31.14	0.03
0.9	0.03	-1.68	1.63	33.16	0.05
1.0	0.09	-1.48	2.04	35.18	0.07
1.1	0.09	-1.28	2.44	37.20	0.10
1.2	0.10	-1.08	2.84	39.22	0.14
1.3	0.19	-0.88	3.25	41.24	0.19
1.4	0.19	-0.67	3.65	43.26	0.25
1.5	0.31	-0.47	4.05	45.27	0.32
1.6	0.53	-0.27	4.46	47.29	0.39
1.7	0.53	-0.07	4.86	49.31	0.47
1.8	0.57	0.13	5.27	51.33	0.55
1.9	0.69	0.34	5.67	53.35	0.63
2.0	0.79	0.54	6.07	55.37	0.70
2.1	0.79	0.74	6.48	57.39	0.77
2.2	0.86	0.94	6.88	59.41	0.83
2.3	0.91	1.14	7.29	61.43	0.87
2.4	0.91	1.34	7.69	63.45	0.91
2.5	0.91	1.55	8.09	65.47	0.94
2.6	0.93	1.75	8.50	67.49	0.96
2.7	0.93	1.95	8.90	69.51	0.97
2.8	0.93	2.15	9.00	71.53	0.98
2.9	0.98	2.35	9.00	73.55	0.99

score	perc_rank	z	stanine	T	perc_normal
3.0	1.00	2.56	9.00	75.57	0.99

6.4 Split by Vipassana continuously

6.4.1 Stats

```
describe_fmi_stats(var = Vip_regel)
```

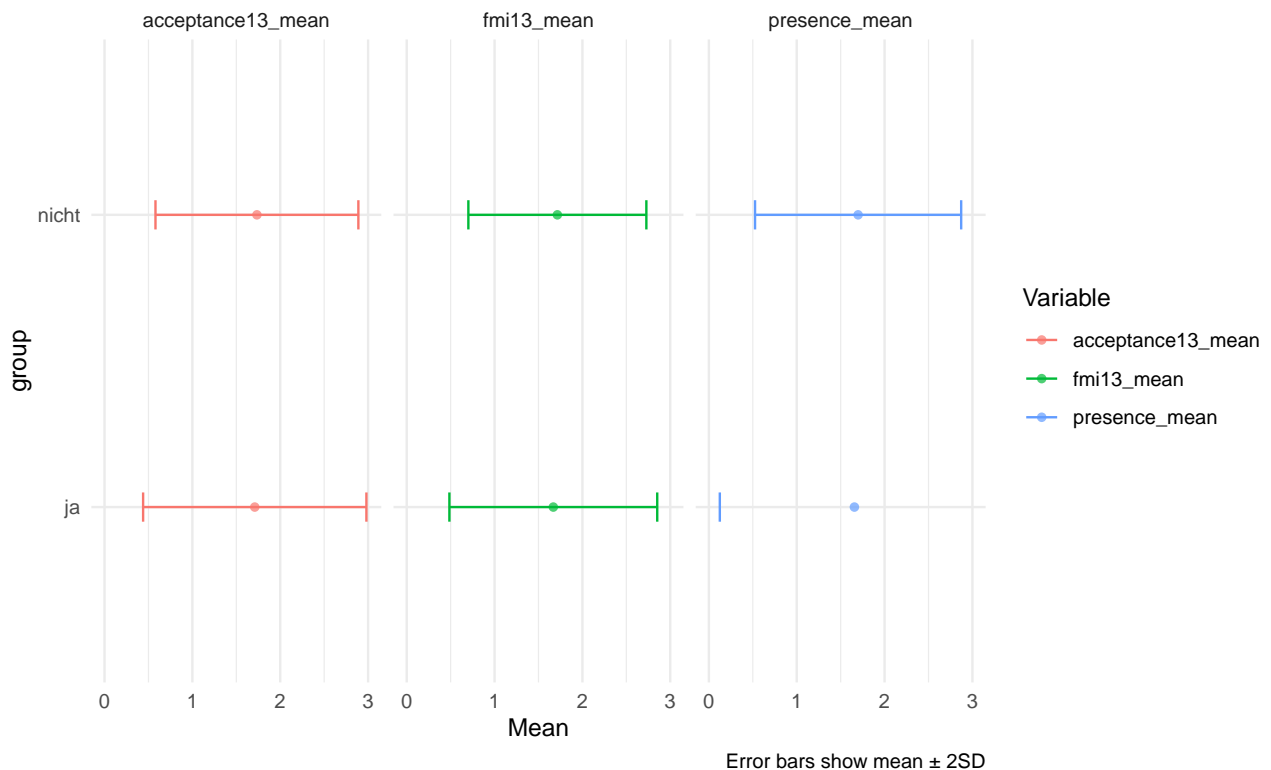
Table 45: Vip_regel=ja

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.71	0.57	0.64	(0.29, 3.00)	1.43, 2.14	-0.02	0.04	33	0
fmi13_mean	1.67	0.56	0.59	(0.43, 2.79)	1.36, 2.14	-0.21	0.02	33	0
presence_mean	1.66	0.55	0.77	(0.00, 3.00)	1.33, 2.17	-0.37	-0.18	33	0

Table 46: Vip_regel=nicht

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptance13_mean	1.73	0.58	0.58	(0.00, 3.00)	1.43, 2.00	-0.22	0.28	979	0
fmi13_mean	1.71	0.57	0.51	(0.21, 3.00)	1.36, 2.00	-0.14	0.16	979	0
presence_mean	1.70	0.57	0.59	(0.00, 3.00)	1.33, 2.00	-0.22	0.19	979	0

```
plot_fmi_descriptives(var = Vip_regel)
```



6.4.2 Norms

```
for (i in unique(d2$Vip_regel)) {
  cat("Group: ", i, "\n")
  d2 %>%
    filter(Vip_regel == i) %>%
    select(ends_with("_mean")) %>%
    map(~ knitr::kable(compute_all_norms(., min_score = 0, max_score = 3, by = .1), digits = 2)) %>%
    print()
}
```

Group: nicht \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.39	1.00	16.14	0.00
0.1	0.00	-3.19	1.00	18.11	0.00
0.2	0.00	-2.99	1.00	20.09	0.00
0.3	0.01	-2.79	1.00	22.06	0.00
0.4	0.01	-2.60	1.00	24.04	0.00
0.5	0.01	-2.40	1.00	26.01	0.01
0.6	0.02	-2.20	1.00	27.99	0.01
0.7	0.03	-2.00	1.00	29.96	0.02
0.8	0.04	-1.81	1.39	31.93	0.04
0.9	0.05	-1.61	1.78	33.91	0.05
1.0	0.09	-1.41	2.18	35.88	0.08
1.1	0.12	-1.21	2.57	37.86	0.11
1.2	0.15	-1.02	2.97	39.83	0.15
1.3	0.21	-0.82	3.36	41.81	0.21
1.4	0.25	-0.62	3.76	43.78	0.27
1.5	0.34	-0.42	4.15	45.76	0.34
1.6	0.39	-0.23	4.55	47.73	0.41
1.7	0.45	-0.03	4.94	49.70	0.49
1.8	0.58	0.17	5.34	51.68	0.57
1.9	0.63	0.37	5.73	53.65	0.64
2.0	0.76	0.56	6.13	55.63	0.71
2.1	0.80	0.76	6.52	57.60	0.78
2.2	0.83	0.96	6.92	59.58	0.83
2.3	0.89	1.16	7.31	61.55	0.88
2.4	0.91	1.35	7.71	63.53	0.91
2.5	0.95	1.55	8.10	65.50	0.94
2.6	0.96	1.75	8.50	67.48	0.96
2.7	0.97	1.94	8.89	69.45	0.97
2.8	0.99	2.14	9.00	71.42	0.98
2.9	0.99	2.34	9.00	73.40	0.99
3.0	1.00	2.54	9.00	75.37	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.90	1.00	21.04	0.00
0.1	0.01	-2.73	1.00	22.75	0.00
0.2	0.01	-2.55	1.00	24.45	0.01

score	perc_rank	z	stanine	T	perc_normal
0.3	0.01	-2.38	1.00	26.16	0.01
0.4	0.02	-2.21	1.00	27.86	0.01
0.5	0.04	-2.04	1.00	29.56	0.02
0.6	0.04	-1.87	1.25	31.27	0.03
0.7	0.06	-1.70	1.59	32.97	0.04
0.8	0.06	-1.53	1.94	34.68	0.06
0.9	0.09	-1.36	2.28	36.38	0.09
1.0	0.14	-1.19	2.62	38.09	0.12
1.1	0.14	-1.02	2.96	39.79	0.15
1.2	0.21	-0.85	3.30	41.50	0.20
1.3	0.21	-0.68	3.64	43.20	0.25
1.4	0.29	-0.51	3.98	44.91	0.31
1.5	0.40	-0.34	4.32	46.61	0.37
1.6	0.40	-0.17	4.66	48.32	0.43
1.7	0.51	0.00	5.00	50.02	0.50
1.8	0.51	0.17	5.35	51.73	0.57
1.9	0.64	0.34	5.69	53.43	0.63
2.0	0.77	0.51	6.03	55.14	0.70
2.1	0.77	0.68	6.37	56.84	0.75
2.2	0.84	0.85	6.71	58.55	0.80
2.3	0.84	1.03	7.05	60.25	0.85
2.4	0.89	1.20	7.39	61.96	0.88
2.5	0.94	1.37	7.73	63.66	0.91
2.6	0.94	1.54	8.07	65.37	0.94
2.7	0.96	1.71	8.41	67.07	0.96
2.8	0.96	1.88	8.76	68.78	0.97
2.9	0.98	2.05	9.00	70.48	0.98
3.0	1.00	2.22	9.00	72.19	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-3.00	1.00	19.96	0.00
0.1	0.01	-2.83	1.00	21.69	0.00
0.2	0.01	-2.66	1.00	23.42	0.00
0.3	0.02	-2.48	1.00	25.15	0.01
0.4	0.02	-2.31	1.00	26.88	0.01
0.5	0.03	-2.14	1.00	28.62	0.02
0.6	0.03	-1.97	1.07	30.35	0.02
0.7	0.03	-1.79	1.42	32.08	0.04
0.8	0.05	-1.62	1.76	33.81	0.05
0.9	0.08	-1.45	2.11	35.54	0.07
1.0	0.13	-1.27	2.46	37.28	0.10
1.1	0.13	-1.10	2.80	39.01	0.14
1.2	0.17	-0.93	3.15	40.74	0.18
1.3	0.24	-0.75	3.49	42.47	0.23
1.4	0.24	-0.58	3.84	44.20	0.28
1.5	0.33	-0.41	4.19	45.93	0.34
1.6	0.42	-0.23	4.53	47.67	0.41
1.7	0.42	-0.06	4.88	49.40	0.48
1.8	0.51	0.11	5.23	51.13	0.55

score	perc_rank	z	stanine	T	perc_normal
1.9	0.63	0.29	5.57	52.86	0.61
2.0	0.75	0.46	5.92	54.59	0.68
2.1	0.75	0.63	6.27	56.33	0.74
2.2	0.82	0.81	6.61	58.06	0.79
2.3	0.87	0.98	6.96	59.79	0.84
2.4	0.87	1.15	7.30	61.52	0.88
2.5	0.90	1.33	7.65	63.25	0.91
2.6	0.94	1.50	8.00	64.99	0.93
2.7	0.94	1.67	8.34	66.72	0.95
2.8	0.96	1.85	8.69	68.45	0.97
2.9	0.98	2.02	9.00	70.18	0.98
3.0	1.00	2.19	9.00	71.91	0.99

Group: ja \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-2.82	1.00	21.78	0.00
0.1	0.00	-2.65	1.00	23.47	0.00
0.2	0.00	-2.48	1.00	25.16	0.01
0.3	0.00	-2.31	1.00	26.85	0.01
0.4	0.00	-2.15	1.00	28.55	0.02
0.5	0.06	-1.98	1.05	30.24	0.02
0.6	0.09	-1.81	1.39	31.93	0.04
0.7	0.09	-1.64	1.72	33.62	0.05
0.8	0.09	-1.47	2.06	35.31	0.07
0.9	0.09	-1.30	2.40	37.00	0.10
1.0	0.12	-1.13	2.74	38.69	0.13
1.1	0.12	-0.96	3.08	40.38	0.17
1.2	0.12	-0.79	3.41	42.07	0.21
1.3	0.21	-0.62	3.75	43.76	0.27
1.4	0.27	-0.45	4.09	45.45	0.32
1.5	0.39	-0.29	4.43	47.15	0.39
1.6	0.52	-0.12	4.77	48.84	0.45
1.7	0.52	0.05	5.11	50.53	0.52
1.8	0.70	0.22	5.44	52.22	0.59
1.9	0.73	0.39	5.78	53.91	0.65
2.0	0.73	0.56	6.12	55.60	0.71
2.1	0.73	0.73	6.46	57.29	0.77
2.2	0.79	0.90	6.80	58.98	0.82
2.3	0.85	1.07	7.13	60.67	0.86
2.4	0.88	1.24	7.47	62.36	0.89
2.5	0.94	1.41	7.81	64.05	0.92
2.6	0.94	1.57	8.15	65.75	0.94
2.7	0.94	1.74	8.49	67.44	0.96
2.8	1.00	1.91	8.83	69.13	0.97
2.9	1.00	2.08	9.00	70.82	0.98
3.0	1.00	2.25	9.00	72.51	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.03	-2.16	1.00	28.37	0.02
0.1	0.03	-2.03	1.00	29.68	0.02
0.2	0.09	-1.90	1.20	30.98	0.03
0.3	0.09	-1.77	1.46	32.29	0.04
0.4	0.09	-1.64	1.72	33.59	0.05
0.5	0.09	-1.51	1.98	34.90	0.07
0.6	0.09	-1.38	2.24	36.21	0.08
0.7	0.12	-1.25	2.50	37.51	0.11
0.8	0.12	-1.12	2.76	38.82	0.13
0.9	0.15	-0.99	3.02	40.12	0.16
1.0	0.21	-0.86	3.29	41.43	0.20
1.1	0.21	-0.73	3.55	42.73	0.23
1.2	0.24	-0.60	3.81	44.04	0.28
1.3	0.24	-0.47	4.07	45.34	0.32
1.4	0.30	-0.33	4.33	46.65	0.37
1.5	0.45	-0.20	4.59	47.96	0.42
1.6	0.45	-0.07	4.85	49.26	0.47
1.7	0.58	0.06	5.11	50.57	0.52
1.8	0.58	0.19	5.37	51.87	0.57
1.9	0.67	0.32	5.64	53.18	0.62
2.0	0.67	0.45	5.90	54.48	0.67
2.1	0.67	0.58	6.16	55.79	0.72
2.2	0.76	0.71	6.42	57.09	0.76
2.3	0.76	0.84	6.68	58.40	0.80
2.4	0.82	0.97	6.94	59.71	0.83
2.5	0.91	1.10	7.20	61.01	0.86
2.6	0.91	1.23	7.46	62.32	0.89
2.7	0.91	1.36	7.72	63.62	0.91
2.8	0.91	1.49	7.99	64.93	0.93
2.9	0.97	1.62	8.25	66.23	0.95
3.0	1.00	1.75	8.51	67.54	0.96

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-2.69	1.00	23.09	0.00
0.1	0.00	-2.53	1.00	24.66	0.01
0.2	0.00	-2.38	1.00	26.23	0.01
0.3	0.03	-2.22	1.00	27.81	0.01
0.4	0.03	-2.06	1.00	29.38	0.02
0.5	0.03	-1.90	1.19	30.96	0.03
0.6	0.06	-1.75	1.51	32.53	0.04
0.7	0.06	-1.59	1.82	34.10	0.06
0.8	0.09	-1.43	2.14	35.68	0.08
0.9	0.12	-1.27	2.45	37.25	0.10
1.0	0.12	-1.12	2.77	38.83	0.13
1.1	0.12	-0.96	3.08	40.40	0.17
1.2	0.18	-0.80	3.39	41.97	0.21
1.3	0.24	-0.65	3.71	43.55	0.26
1.4	0.24	-0.49	4.02	45.12	0.31
1.5	0.33	-0.33	4.34	46.70	0.37

score	perc_rank	z	stanine	T	perc_normal
1.6	0.45	-0.17	4.65	48.27	0.43
1.7	0.45	-0.02	4.97	49.84	0.49
1.8	0.64	0.14	5.28	51.42	0.56
1.9	0.67	0.30	5.60	52.99	0.62
2.0	0.73	0.46	5.91	54.57	0.68
2.1	0.73	0.61	6.23	56.14	0.73
2.2	0.82	0.77	6.54	57.71	0.78
2.3	0.85	0.93	6.86	59.29	0.82
2.4	0.85	1.09	7.17	60.86	0.86
2.5	0.85	1.24	7.49	62.43	0.89
2.6	0.91	1.40	7.80	64.01	0.92
2.7	0.91	1.56	8.12	65.58	0.94
2.8	0.94	1.72	8.43	67.16	0.96
2.9	0.97	1.87	8.75	68.73	0.97
3.0	1.00	2.03	9.00	70.30	0.98

6.5 Split by Age

6.5.1 Stats

Median age in sample?

```
d2$Alter %>% median()
```

```
## [1] 49
```

```
d2 <-
```

```
  d2 %>%
```

```
  mutate(age_below_md = if_else(Alter < median(Alter), "young", "old"))
```

```
describe_fmi_stats(var = age_below_md)
```

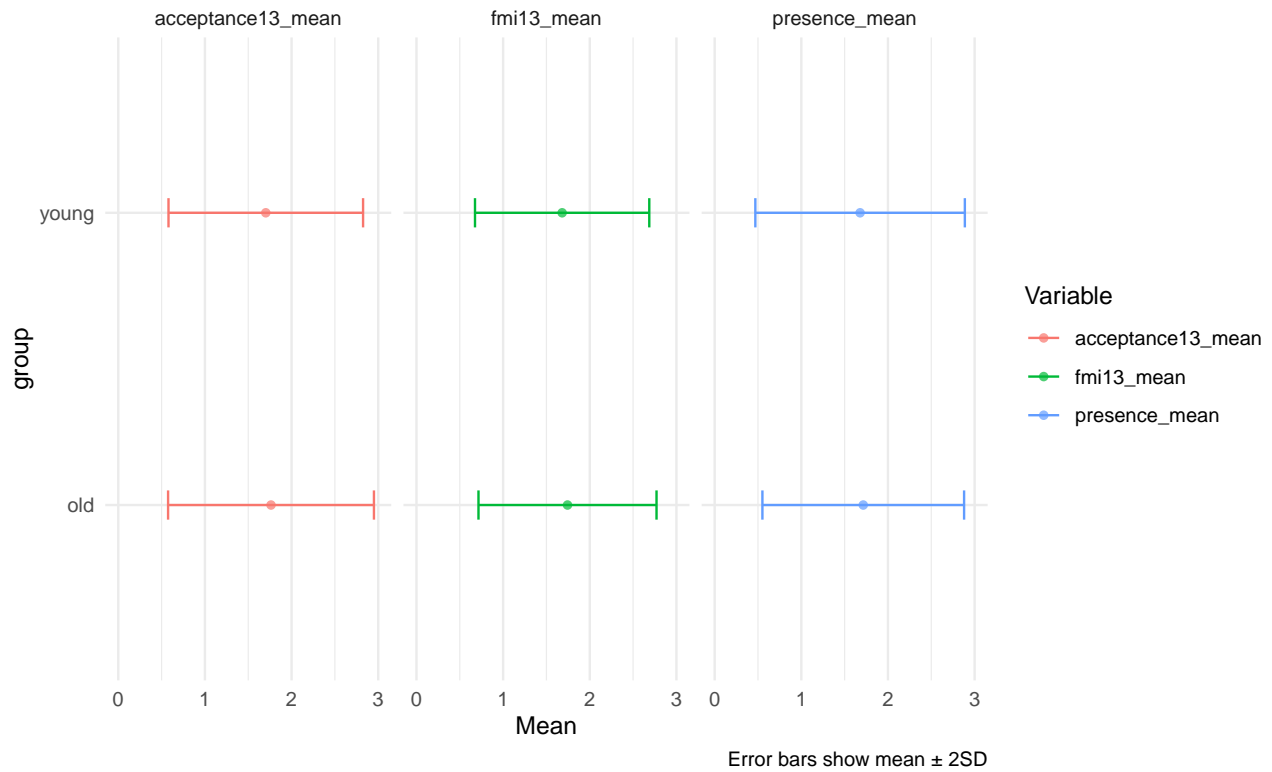
Table 53: age_below_md=old

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptancel3_mean	1.76	0.59	0.59	(0.00, 3.00)	1.43, 2.14	-0.38	0.41	526	0
fmi13_mean	1.74	0.58	0.51	(0.21, 3.00)	1.43, 2.07	-0.29	0.25	526	0
presence_mean	1.71	0.57	0.58	(0.00, 3.00)	1.33, 2.00	-0.38	0.39	526	0

Table 54: age_below_md=young

Variable	Mean	Mean_01	SD	Range	Quartiles	Skewness	Kurtosis	n	n_Missing
acceptancel3_mean	1.70	0.57	0.56	(0.00, 3.00)	1.29, 2.00	-0.03	0.17	486	0
fmi13_mean	1.68	0.56	0.50	(0.21, 3.00)	1.36, 2.00	0.01	0.14	486	0
presence_mean	1.68	0.56	0.60	(0.00, 3.00)	1.33, 2.00	-0.09	0.05	486	0

```
plot_fmi_descriptives(var = age_below_md)
```



6.5.2 Norms

```
for (i in unique(d2$age_below_md)) {
  cat("Group: ", i, "\n")
  d2 %>%
    filter(age_below_md == i) %>%
    select(ends_with("_mean")) %>%
    map(~ knitr::kable(compute_all_norms(., min_score = 0, max_score = 3, by = .1), digits = 2)) %>%
    print()
}
```

Group: young \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.34	1.00	16.56	0.00
0.1	0.00	-3.14	1.00	18.55	0.00
0.2	0.00	-2.95	1.00	20.54	0.00
0.3	0.01	-2.75	1.00	22.53	0.00
0.4	0.01	-2.55	1.00	24.52	0.01
0.5	0.01	-2.35	1.00	26.51	0.01
0.6	0.02	-2.15	1.00	28.50	0.02
0.7	0.02	-1.95	1.10	30.49	0.03
0.8	0.04	-1.75	1.49	32.47	0.04
0.9	0.06	-1.55	1.89	34.46	0.06
1.0	0.09	-1.35	2.29	36.45	0.09
1.1	0.12	-1.16	2.69	38.44	0.12
1.2	0.16	-0.96	3.09	40.43	0.17
1.3	0.22	-0.76	3.48	42.42	0.22

score	perc_rank	z	stanine	T	perc_normal
1.4	0.27	-0.56	3.88	44.41	0.29
1.5	0.39	-0.36	4.28	46.40	0.36
1.6	0.45	-0.16	4.68	48.38	0.44
1.7	0.50	0.04	5.07	50.37	0.51
1.8	0.62	0.24	5.47	52.36	0.59
1.9	0.66	0.44	5.87	54.35	0.67
2.0	0.78	0.63	6.27	56.34	0.74
2.1	0.83	0.83	6.67	58.33	0.80
2.2	0.86	1.03	7.06	60.32	0.85
2.3	0.90	1.23	7.46	62.31	0.89
2.4	0.91	1.43	7.86	64.29	0.92
2.5	0.95	1.63	8.26	66.28	0.95
2.6	0.96	1.83	8.65	68.27	0.97
2.7	0.96	2.03	9.00	70.26	0.98
2.8	0.99	2.22	9.00	72.25	0.99
2.9	0.99	2.42	9.00	74.24	0.99
3.0	1.00	2.62	9.00	76.23	1.00

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.78	1.00	22.23	0.00
0.1	0.01	-2.61	1.00	23.89	0.00
0.2	0.02	-2.45	1.00	25.54	0.01
0.3	0.02	-2.28	1.00	27.20	0.01
0.4	0.02	-2.11	1.00	28.85	0.02
0.5	0.03	-1.95	1.10	30.51	0.03
0.6	0.03	-1.78	1.43	32.16	0.04
0.7	0.07	-1.62	1.76	33.82	0.05
0.8	0.07	-1.45	2.09	35.47	0.07
0.9	0.10	-1.29	2.42	37.12	0.10
1.0	0.15	-1.12	2.76	38.78	0.13
1.1	0.15	-0.96	3.09	40.43	0.17
1.2	0.23	-0.79	3.42	42.09	0.21
1.3	0.23	-0.63	3.75	43.74	0.27
1.4	0.31	-0.46	4.08	45.40	0.32
1.5	0.43	-0.30	4.41	47.05	0.38
1.6	0.43	-0.13	4.74	48.70	0.45
1.7	0.56	0.04	5.07	50.36	0.51
1.8	0.56	0.20	5.40	52.01	0.58
1.9	0.66	0.37	5.73	53.67	0.64
2.0	0.77	0.53	6.06	55.32	0.70
2.1	0.77	0.70	6.40	56.98	0.76
2.2	0.84	0.86	6.73	58.63	0.81
2.3	0.84	1.03	7.06	60.28	0.85
2.4	0.88	1.19	7.39	61.94	0.88
2.5	0.92	1.36	7.72	63.59	0.91
2.6	0.92	1.52	8.05	65.25	0.94
2.7	0.95	1.69	8.38	66.90	0.95
2.8	0.95	1.86	8.71	68.56	0.97
2.9	0.97	2.02	9.00	70.21	0.98

score	perc_rank	z	stanine	T	perc_normal
3.0	1.00	2.19	9.00	71.86	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.03	1.00	19.67	0.00
0.1	0.00	-2.85	1.00	21.45	0.00
0.2	0.01	-2.68	1.00	23.23	0.00
0.3	0.01	-2.50	1.00	25.02	0.01
0.4	0.01	-2.32	1.00	26.80	0.01
0.5	0.02	-2.14	1.00	28.58	0.02
0.6	0.03	-1.96	1.07	30.36	0.02
0.7	0.03	-1.79	1.43	32.14	0.04
0.8	0.04	-1.61	1.78	33.92	0.05
0.9	0.08	-1.43	2.14	35.70	0.08
1.0	0.13	-1.25	2.50	37.49	0.11
1.1	0.13	-1.07	2.85	39.27	0.14
1.2	0.18	-0.90	3.21	41.05	0.19
1.3	0.26	-0.72	3.57	42.83	0.24
1.4	0.26	-0.54	3.92	44.61	0.29
1.5	0.35	-0.36	4.28	46.39	0.36
1.6	0.46	-0.18	4.63	48.17	0.43
1.7	0.46	0.00	4.99	49.95	0.50
1.8	0.55	0.17	5.35	51.74	0.57
1.9	0.66	0.35	5.70	53.52	0.64
2.0	0.78	0.53	6.06	55.30	0.70
2.1	0.78	0.71	6.42	57.08	0.76
2.2	0.84	0.89	6.77	58.86	0.81
2.3	0.89	1.06	7.13	60.64	0.86
2.4	0.89	1.24	7.48	62.42	0.89
2.5	0.91	1.42	7.84	64.21	0.92
2.6	0.94	1.60	8.20	65.99	0.95
2.7	0.94	1.78	8.55	67.77	0.96
2.8	0.96	1.96	8.91	69.55	0.97
2.9	0.98	2.13	9.00	71.33	0.98
3.0	1.00	2.31	9.00	73.11	0.99

Group: old \$fmi13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.00	-3.39	1.00	16.06	0.00
0.1	0.00	-3.20	1.00	18.01	0.00
0.2	0.00	-3.00	1.00	19.96	0.00
0.3	0.01	-2.81	1.00	21.90	0.00
0.4	0.01	-2.61	1.00	23.85	0.00
0.5	0.02	-2.42	1.00	25.80	0.01
0.6	0.03	-2.23	1.00	27.74	0.01
0.7	0.03	-2.03	1.00	29.69	0.02
0.8	0.05	-1.84	1.33	31.64	0.03

score	perc_rank	z	stanine	T	perc_normal
0.9	0.05	-1.64	1.72	33.58	0.05
1.0	0.09	-1.45	2.11	35.53	0.07
1.1	0.12	-1.25	2.50	37.48	0.11
1.2	0.14	-1.06	2.88	39.42	0.15
1.3	0.20	-0.86	3.27	41.37	0.19
1.4	0.23	-0.67	3.66	43.32	0.25
1.5	0.29	-0.47	4.05	45.27	0.32
1.6	0.34	-0.28	4.44	47.21	0.39
1.7	0.41	-0.08	4.83	49.16	0.47
1.8	0.54	0.11	5.22	51.11	0.54
1.9	0.61	0.31	5.61	53.05	0.62
2.0	0.74	0.50	6.00	55.00	0.69
2.1	0.77	0.69	6.39	56.95	0.76
2.2	0.81	0.89	6.78	58.89	0.81
2.3	0.89	1.08	7.17	60.84	0.86
2.4	0.90	1.28	7.56	62.79	0.90
2.5	0.94	1.47	7.95	64.73	0.93
2.6	0.96	1.67	8.34	66.68	0.95
2.7	0.97	1.86	8.73	68.63	0.97
2.8	0.99	2.06	9.00	70.57	0.98
2.9	0.99	2.25	9.00	72.52	0.99
3.0	1.00	2.45	9.00	74.47	0.99

\$presence_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.95	1.00	20.53	0.00
0.1	0.01	-2.78	1.00	22.25	0.00
0.2	0.01	-2.60	1.00	23.97	0.00
0.3	0.01	-2.43	1.00	25.69	0.01
0.4	0.03	-2.26	1.00	27.41	0.01
0.5	0.05	-2.09	1.00	29.12	0.02
0.6	0.05	-1.92	1.17	30.84	0.03
0.7	0.06	-1.74	1.51	32.56	0.04
0.8	0.06	-1.57	1.86	34.28	0.06
0.9	0.09	-1.40	2.20	36.00	0.08
1.0	0.14	-1.23	2.54	37.72	0.11
1.1	0.14	-1.06	2.89	39.43	0.15
1.2	0.19	-0.88	3.23	41.15	0.19
1.3	0.19	-0.71	3.57	42.87	0.24
1.4	0.28	-0.54	3.92	44.59	0.29
1.5	0.37	-0.37	4.26	46.31	0.36
1.6	0.37	-0.20	4.61	48.03	0.42
1.7	0.48	-0.03	4.95	49.75	0.49
1.8	0.48	0.15	5.29	51.46	0.56
1.9	0.61	0.32	5.64	53.18	0.62
2.0	0.77	0.49	5.98	54.90	0.69
2.1	0.77	0.66	6.32	56.62	0.75
2.2	0.84	0.83	6.67	58.34	0.80
2.3	0.84	1.01	7.01	60.06	0.84
2.4	0.90	1.18	7.35	61.77	0.88

score	perc_rank	z	stanine	T	perc_normal
2.5	0.94	1.35	7.70	63.49	0.91
2.6	0.94	1.52	8.04	65.21	0.94
2.7	0.96	1.69	8.39	66.93	0.95
2.8	0.96	1.86	8.73	68.65	0.97
2.9	0.98	2.04	9.00	70.37	0.98
3.0	1.00	2.21	9.00	72.09	0.99

\$acceptance13_mean

score	perc_rank	z	stanine	T	perc_normal
0.0	0.01	-2.97	1.00	20.32	0.00
0.1	0.01	-2.80	1.00	22.00	0.00
0.2	0.02	-2.63	1.00	23.69	0.00
0.3	0.02	-2.46	1.00	25.37	0.01
0.4	0.02	-2.29	1.00	27.05	0.01
0.5	0.03	-2.13	1.00	28.74	0.02
0.6	0.04	-1.96	1.08	30.42	0.03
0.7	0.04	-1.79	1.42	32.11	0.04
0.8	0.06	-1.62	1.76	33.79	0.05
0.9	0.08	-1.45	2.09	35.47	0.07
1.0	0.12	-1.28	2.43	37.16	0.10
1.1	0.12	-1.12	2.77	38.84	0.13
1.2	0.16	-0.95	3.10	40.52	0.17
1.3	0.23	-0.78	3.44	42.21	0.22
1.4	0.23	-0.61	3.78	43.89	0.27
1.5	0.30	-0.44	4.11	45.57	0.33
1.6	0.37	-0.27	4.45	47.26	0.39
1.7	0.37	-0.11	4.79	48.94	0.46
1.8	0.48	0.06	5.12	50.62	0.52
1.9	0.60	0.23	5.46	52.31	0.59
2.0	0.73	0.40	5.80	53.99	0.66
2.1	0.73	0.57	6.14	55.68	0.71
2.2	0.81	0.74	6.47	57.36	0.77
2.3	0.85	0.90	6.81	59.04	0.82
2.4	0.85	1.07	7.15	60.73	0.86
2.5	0.89	1.24	7.48	62.41	0.89
2.6	0.94	1.41	7.82	64.09	0.92
2.7	0.94	1.58	8.16	65.78	0.94
2.8	0.96	1.75	8.49	67.46	0.96
2.9	0.97	1.91	8.83	69.14	0.97
3.0	1.00	2.08	9.00	70.83	0.98

7 Overview on descriptive statistics per subgroup

```
subgroup_stats <- list()

for (i in seq_along(subgroup_vars)){

subgroup_stats[[i]] <-
```

```

d2 %>%
  select(ends_with("mean"),
         any_of(subgroup_vars)[i]) %>%
  group_by(across(any_of(subgroup_vars[i]))) %>%
  describe_distribution() %>%
  select(Variable, Mean, SD, IQR, Min, Max, n, .group)

subgroup_stats[[i]][["subgroup_var"]] <- subgroup_vars[i]
}

subgroup_stats_df <- do.call(rbind, subgroup_stats)

subgroup_stats_df <-
  subgroup_stats_df %>%
  mutate(group = str_remove(.group, "^\\.=")) %>%
  select(-.group)

display(subgroup_stats_df)

```

Variable	Mean	SD	IQR	Range	n	subgroup_var	group
fmi13_mean	1.71	0.51	0.71	(0.21, 3.00)	515	Geschlecht	female
presence_mean	1.72	0.58	0.67	(0.00, 3.00)	515	Geschlecht	female
acceptancel3_mean	1.73	0.57	0.86	(0.00, 3.00)	515	Geschlecht	female
fmi13_mean	1.71	0.51	0.57	(0.21, 3.00)	495	Geschlecht	male
presence_mean	1.67	0.60	0.67	(0.00, 3.00)	495	Geschlecht	male
acceptancel3_mean	1.74	0.59	0.57	(0.00, 3.00)	495	Geschlecht	male
fmi13_mean	1.50	0.20	0.29	(1.36, 1.64)	2	Geschlecht	other
presence_mean	1.33	0.00	0.00	(1.33, 1.33)	2	Geschlecht	other
acceptancel3_mean	1.79	0.51	0.71	(1.43, 2.14)	2	Geschlecht	other
fmi13_mean	1.69	0.51	0.64	(0.21, 3.00)	792	Achts_regel	no
presence_mean	1.65	0.59	0.67	(0.00, 3.00)	792	Achts_regel	no
acceptancel3_mean	1.72	0.59	0.71	(0.00, 3.00)	792	Achts_regel	no
fmi13_mean	1.81	0.49	0.57	(0.21, 3.00)	220	Achts_regel	yes
presence_mean	1.86	0.56	0.67	(0.00, 3.00)	220	Achts_regel	yes
acceptancel3_mean	1.80	0.55	0.71	(0.00, 3.00)	220	Achts_regel	yes
fmi13_mean	1.82	0.43	0.43	(0.71, 3.00)	116	Retreats	Multiple retreats per year
presence_mean	1.84	0.50	0.62	(0.33, 3.00)	116	Retreats	Multiple retreats per year
acceptancel3_mean	1.81	0.48	0.54	(0.71, 3.00)	116	Retreats	Multiple retreats per year
fmi13_mean	1.68	0.52	0.64	(0.21, 3.00)	673	Retreats	Never
presence_mean	1.64	0.59	0.67	(0.00, 3.00)	673	Retreats	Never
acceptancel3_mean	1.70	0.60	0.71	(0.00, 3.00)	673	Retreats	Never
fmi13_mean	1.71	0.45	0.57	(0.57, 2.93)	58	Retreats	Once a year
presence_mean	1.68	0.55	0.67	(0.17, 3.00)	58	Retreats	Once a year
acceptancel3_mean	1.73	0.50	0.57	(0.71, 3.00)	58	Retreats	Once a year
fmi13_mean	1.71	0.46	0.71	(0.93, 2.93)	86	Retreats	Once every couple of years
presence_mean	1.71	0.59	0.83	(0.67, 3.00)	86	Retreats	Once every couple of years
acceptancel3_mean	1.74	0.53	0.71	(0.29, 3.00)	86	Retreats	Once every couple of years
fmi13_mean	1.89	0.55	0.71	(0.29, 2.79)	79	Retreats	Rarely
presence_mean	1.94	0.68	0.83	(0.00, 3.00)	79	Retreats	Rarely
acceptancel3_mean	1.93	0.63	0.71	(0.14, 3.00)	79	Retreats	Rarely

Variable	Mean	SD	IQR	Range	n	subgroup_var	group
fmi13_mean	1.67	0.59	0.79	(0.43, 2.79)	33	Vip_regel	ja
presence_mean	1.66	0.77	1.00	(0.00, 3.00)	33	Vip_regel	ja
acceptancel3_mean	1.71	0.64	0.79	(0.29, 3.00)	33	Vip_regel	ja
fmi13_mean	1.71	0.51	0.64	(0.21, 3.00)	979	Vip_regel	nicht
presence_mean	1.70	0.59	0.67	(0.00, 3.00)	979	Vip_regel	nicht
acceptancel3_mean	1.73	0.58	0.57	(0.00, 3.00)	979	Vip_regel	nicht
fmi13_mean	1.74	0.51	0.64	(0.21, 3.00)	526	age_below_md	old
presence_mean	1.71	0.58	0.67	(0.00, 3.00)	526	age_below_md	old
acceptancel3_mean	1.76	0.59	0.71	(0.00, 3.00)	526	age_below_md	old
fmi13_mean	1.68	0.50	0.64	(0.21, 3.00)	486	age_below_md	young
presence_mean	1.68	0.60	0.67	(0.00, 3.00)	486	age_below_md	young
acceptancel3_mean	1.70	0.56	0.71	(0.00, 3.00)	486	age_below_md	young

```

subgroup_stats_long <-
subgroup_stats_df %>%
  select(Variable, Mean, SD, group, subgroup_var) %>%
  mutate(Subscale = str_remove(Variable, "_mean")) %>%
  pivot_longer(-c(Variable, group, Mean, Subscale, subgroup_var), values_to = "SD")

display(subgroup_stats_long)

```

Variable	Mean		group	subgroup_var	Subscale	name	SD
fmi13_mean	1.71		female	Geschlecht	fmi13	SD	0.51
presence_mean	1.72		female	Geschlecht	presence	SD	0.58
acceptancel3_mean	1.73		female	Geschlecht	acceptancel3	SD	0.57
fmi13_mean	1.71		male	Geschlecht	fmi13	SD	0.51
presence_mean	1.67		male	Geschlecht	presence	SD	0.60
acceptancel3_mean	1.74		male	Geschlecht	acceptancel3	SD	0.59
fmi13_mean	1.50		other	Geschlecht	fmi13	SD	0.20
presence_mean	1.33		other	Geschlecht	presence	SD	0.00
acceptancel3_mean	1.79		other	Geschlecht	acceptancel3	SD	0.51
fmi13_mean	1.69		no	Achts_regel	fmi13	SD	0.51
presence_mean	1.65		no	Achts_regel	presence	SD	0.59
acceptancel3_mean	1.72		no	Achts_regel	acceptancel3	SD	0.59
fmi13_mean	1.81		yes	Achts_regel	fmi13	SD	0.49
presence_mean	1.86		yes	Achts_regel	presence	SD	0.56
acceptancel3_mean	1.80		yes	Achts_regel	acceptancel3	SD	0.55
fmi13_mean	1.82	Multiple retreats per year		Retreats	fmi13	SD	0.43
presence_mean	1.84	Multiple retreats per year		Retreats	presence	SD	0.50
acceptancel3_mean	1.81	Multiple retreats per year		Retreats	acceptancel3	SD	0.48
fmi13_mean	1.68		Never	Retreats	fmi13	SD	0.52
presence_mean	1.64		Never	Retreats	presence	SD	0.59
acceptancel3_mean	1.70		Never	Retreats	acceptancel3	SD	0.60
fmi13_mean	1.71		Once a year	Retreats	fmi13	SD	0.45
presence_mean	1.68		Once a year	Retreats	presence	SD	0.55
acceptancel3_mean	1.73		Once a year	Retreats	acceptancel3	SD	0.50
fmi13_mean	1.71	Once every couple of years		Retreats	fmi13	SD	0.46
presence_mean	1.71	Once every couple of years		Retreats	presence	SD	0.59
acceptancel3_mean	1.74	Once every couple of years		Retreats	acceptancel3	SD	0.53
fmi13_mean	1.89		Rarely	Retreats	fmi13	SD	0.55
presence_mean	1.94		Rarely	Retreats	presence	SD	0.68

Variable	Mean	group	subgroup_var	Subscale	name	SD
acceptance13_mean	1.93	Rarely	Retreats	acceptance13	SD	0.63
fmi13_mean	1.67	ja	Vip_regel	fmi13	SD	0.59
presence_mean	1.66	ja	Vip_regel	presence	SD	0.77
acceptance13_mean	1.71	ja	Vip_regel	acceptance13	SD	0.64
fmi13_mean	1.71	nicht	Vip_regel	fmi13	SD	0.51
presence_mean	1.70	nicht	Vip_regel	presence	SD	0.59
acceptance13_mean	1.73	nicht	Vip_regel	acceptance13	SD	0.58
fmi13_mean	1.74	old	age_below_md	fmi13	SD	0.51
presence_mean	1.71	old	age_below_md	presence	SD	0.58
acceptance13_mean	1.76	old	age_below_md	acceptance13	SD	0.59
fmi13_mean	1.68	young	age_below_md	fmi13	SD	0.50
presence_mean	1.68	young	age_below_md	presence	SD	0.60
acceptance13_mean	1.70	young	age_below_md	acceptance13	SD	0.56

```
# subgroup_stats_long %>%
#   ggplot(aes(x = Variable, color = group)) +
#   geom_errorbar(aes(ymin = Mean-SD, ymax = Mean+SD), position = "dodge") +
#   geom_point2(aes(y = Mean), alpha = .7, size = 2) +
#   facet_wrap(subgroup_vars ~ Variable, scales = "free")
```

7.1 Regression models

7.1.1 m1

```
m1 <- lm(PHQ_Sum ~ presence_mean + acceptance13_mean, data = d2)
parameters(m1) %>% display()
```

Parameter	Coefficient	SE	95% CI	t(1009)	p
(Intercept)	8.47	0.29	(7.90, 9.04)	29.09	< .001
presence mean	0.98	0.22	(0.56, 1.41)	4.54	< .001
acceptance13 mean	-1.79	0.22	(-2.22, -1.35)	-8.08	< .001

```
performance(m1) %>% display
```

AIC	AICc	BIC	R2	R2 (adj.)	RMSE	Sigma
4957.88	4957.92	4977.56	0.06	0.06	2.79	2.80

Standardized data:

```
parameters(m1, standardize = "refit") %>% display
```

Parameter	Coefficient	SE	95% CI	t(1009)	p
(Intercept)	-2.91e-16	0.03	(-0.06, 0.06)	-9.55e-15	> .999
presence mean	0.20	0.04	(0.11, 0.29)	4.54	< .001
acceptance13 mean	-0.36	0.04	(-0.45, -0.27)	-8.08	< .001

```
summary(m1)
```

```
##
## Call:
## lm(formula = PHQ_Sum ~ presence_mean + acceptance13_mean, data = d2)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -5.1756 -2.1170 -0.5514  1.4387  9.9491
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      8.4692     0.2911  29.093 < 2e-16 ***
## presence_mean      0.9818     0.2162   4.541 6.28e-06 ***
## acceptance13_mean -1.7878     0.2214  -8.077 1.88e-15 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.796 on 1009 degrees of freedom
## Multiple R-squared:  0.06403,    Adjusted R-squared:  0.06217
## F-statistic: 34.51 on 2 and 1009 DF,  p-value: 3.175e-15
```

8 Session info

```
sessionInfo()
```

```
## R version 4.2.1 (2022-06-23)
## Platform: x86_64-apple-darwin17.0 (64-bit)
## Running under: macOS Big Sur ... 10.16
##
## Matrix products: default
## BLAS:   /Library/Frameworks/R.framework/Versions/4.2/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.2/Resources/lib/libRlapack.dylib
##
## locale:
##  [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
##  [1] DataExplorer_0.8.2 lubridate_1.9.3   forcats_1.0.0    stringr_1.5.1
##  [5] dplyr_1.1.4        purrr_1.0.2       readr_2.1.5      tidyr_1.3.1
##  [9] tibble_3.2.1       ggplot2_3.5.1     tidyverse_2.0.0   here_1.0.1
## [13] see_0.9.0          report_0.5.9      parameters_0.22.2 performance_0.12.3
## [17] modelbased_0.8.8   insight_0.20.4    effectsize_0.8.9  datawizard_0.12.3
## [21] correlation_0.8.5  bayestestR_0.14.0 easystats_0.7.3
##
## loaded via a namespace (and not attached):
##  [1] splines_4.2.1      yaml_2.3.8         pillar_1.9.0      lattice_0.21-8
##  [5] glue_1.6.2         digest_0.6.33      colorspace_2.1-0  sandwich_3.0-2
##  [9] htmltools_0.5.7    Matrix_1.5-4.1     pkgconfig_2.0.3   haven_2.5.4
## [13] xtable_1.8-4       mvtnorm_1.2-2      patchwork_1.2.0    scales_1.3.0
```


## [17] tzdb_0.4.0	timechange_0.2.0	emmeans_1.8.9	farver_2.1.1
## [21] generics_0.1.3	TH.data_1.1-2	withr_3.0.0	cli_3.6.2
## [25] survival_3.5-5	magrittr_2.0.3	estimability_1.4.1	evaluate_0.23
## [29] fansi_1.0.6	MASS_7.3-60	tools_4.2.1	data.table_1.15.4
## [33] hms_1.1.3	lifecycle_1.0.4	multcomp_1.4-25	munsell_0.5.0
## [37] networkD3_0.4	compiler_4.2.1	tinytex_0.52	rlang_1.1.4
## [41] grid_4.2.1	rstudioapi_0.16.0	htmlwidgets_1.6.4	igraph_2.0.2
## [45] labeling_0.4.3	rmarkdown_2.28	gtable_0.3.4	codetools_0.2-19
## [49] R6_2.5.1	gridExtra_2.3	zoo_1.8-12	knitr_1.48
## [53] fastmap_1.1.1	utf8_1.2.4	rprojroot_2.0.4	stringi_1.8.3
## [57] parallel_4.2.1	vctrs_0.6.5	tidyselect_1.2.0	xfun_0.47
## [61] coda_0.19-4			