McFall - EAMMi2

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### Vignette Setup:

### Project/Data Title:

Emerging Adulthood Measured at Multiple Institutions 2: The Next Generation (EAMMi2)

Data provided by: Joe McFall

### Project/Data Description:

Collaborators from 32 academic institutions primarily in the United States collected data from emerging adults (Nraw = 4220, Nprocessed = 3134). Participants completed self-report measures assessing markers of adulthood, IDEA inventory of dimensions of emerging adulthood, subjective well-being, mindfulness, belonging, self-efficacy, disability identity, somatic health, perceived stress, perceived social support, social media use, political affiliation, beliefs about the American dream, interpersonal transgressions, narcissism, interpersonal exploitativeness, beliefs about marriage, and demographics.

### Methods Description:

Project organizers recruited contributors through social media (Facebook & Twitter) and listserv invitations (Society of Personality and Social Psychology, Society of Teaching Psychology).

### Data Location:

<https://osf.io/qtqpb/>

EAMMi2<- import("mcfall\_data.sav") %>%   
 select(starts\_with("moa1#"), starts\_with("moa2#"))  
str(EAMMi2)

## 'data.frame': 3134 obs. of 40 variables:  
## $ moa1#1\_1 : num 3 4 4 4 4 4 3 4 4 1 ...  
## ..- attr(\*, "label")= chr "imp\_financialindependence"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_2 : num 4 4 4 3 2 3 2 3 3 2 ...  
## ..- attr(\*, "label")= chr "imp\_nolongerhom"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_3 : num 3 4 4 4 4 4 1 2 4 1 ...  
## ..- attr(\*, "label")= chr "imp\_finishededucation"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_4 : num 2 1 4 3 3 NA 1 1 4 1 ...  
## ..- attr(\*, "label")= chr "imp\_married"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_5 : num 3 1 4 3 3 NA 1 1 4 1 ...  
## ..- attr(\*, "label")= chr "imp\_havechild"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_6 : num 4 3 3 4 3 4 1 2 4 1 ...  
## ..- attr(\*, "label")= chr "imp\_settledcareer"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_7 : num 4 2 1 4 4 4 1 1 3 4 ...  
## ..- attr(\*, "label")= chr "imp\_avoiddrunk"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_8 : num 4 3 4 4 4 4 4 1 3 4 ...  
## ..- attr(\*, "label")= chr "imp\_avoiddrugs"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_9 : num 4 4 4 4 2 4 4 1 2 4 ...  
## ..- attr(\*, "label")= chr "imp\_usecontraception"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#1\_10: num 2 2 4 3 3 3 1 1 3 1 ...  
## ..- attr(\*, "label")= chr "imp\_committedlongterm"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa1#2\_1 : num 1 2 2 3 2 1 2 1 2 3 ...  
## ..- attr(\*, "label")= chr "ach\_financialindependence"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa1#2\_2 : num 3 1 3 1 2 3 2 2 1 3 ...  
## ..- attr(\*, "label")= chr "ach\_nolongerhome"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa1#2\_3 : num 1 2 2 2 1 1 2 1 1 3 ...  
## ..- attr(\*, "label")= chr "ach\_finishededucation"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa1#2\_4 : num 2 1 3 1 1 NA 2 1 1 3 ...  
## ..- attr(\*, "label")= chr "ach\_married"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa1#2\_5 : num 3 1 3 1 1 NA 2 1 1 2 ...  
## ..- attr(\*, "label")= chr "ach\_havechild"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa1#2\_6 : num 2 2 1 1 1 1 2 1 1 3 ...  
## ..- attr(\*, "label")= chr "ach\_settledcareer"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa1#2\_7 : num 3 2 1 3 2 3 2 1 1 3 ...  
## ..- attr(\*, "label")= chr "ach\_avoiddrunk"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa1#2\_8 : num 3 3 3 3 3 3 2 1 1 3 ...  
## ..- attr(\*, "label")= chr "ach\_avoiddrugs"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa1#2\_9 : num 3 3 3 3 3 3 2 3 3 3 ...  
## ..- attr(\*, "label")= chr "ach\_usecontraception"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa1#2\_10: num 3 1 3 1 1 1 2 2 1 2 ...  
## ..- attr(\*, "label")= chr "ach\_committedlongterm"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "achieved"  
## $ moa2#1\_1 : num 4 4 3 4 4 3 1 4 4 4 ...  
## ..- attr(\*, "label")= chr "imp\_indepedentdecisions"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_2 : num 4 4 4 4 4 3 1 3 4 4 ...  
## ..- attr(\*, "label")= chr "imp\_supportfamily"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_3 : num 3 3 4 3 4 1 1 2 4 4 ...  
## ..- attr(\*, "label")= chr "imp\_carechildren"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_4 : num 4 4 4 4 3 4 1 4 3 4 ...  
## ..- attr(\*, "label")= chr "imp\_acceptresponsibility"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_5 : num 4 3 4 3 3 4 1 3 4 2 ...  
## ..- attr(\*, "label")= chr "imp\_employfulltime"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_6 : num 4 4 4 4 4 4 1 2 3 4 ...  
## ..- attr(\*, "label")= chr "imp\_avoiddrunkdriving"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_7 : num 3 4 4 3 2 2 1 3 3 4 ...  
## ..- attr(\*, "label")= chr "imp\_parentasequal"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_8 : num 4 3 4 4 4 4 1 4 4 4 ...  
## ..- attr(\*, "label")= chr "imp\_emotionalcontrol"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_9 : num 3 3 4 4 3 4 1 3 4 2 ...  
## ..- attr(\*, "label")= chr "imp\_considerothers"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#1\_10: num 2 4 2 3 4 1 1 4 4 1 ...  
## ..- attr(\*, "label")= chr "imp\_supportparentsfinance"  
## ..- attr(\*, "format.spss")= chr "F12.0"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:2] 1 4  
## .. ..- attr(\*, "names")= chr [1:2] "not important" "important"  
## $ moa2#2\_1 : num 3 3 2 3 2 3 2 2 3 3 ...  
## ..- attr(\*, "label")= chr "achi\_independentdecisions"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_2 : num 2 1 2 2 1 1 2 1 1 2 ...  
## ..- attr(\*, "label")= chr "ach\_supportfamily"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_3 : num 3 1 3 2 2 1 2 1 3 3 ...  
## ..- attr(\*, "label")= chr "ach\_carechildren"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_4 : num 2 3 2 3 3 3 2 2 2 3 ...  
## ..- attr(\*, "label")= chr "ach\_acceptresponsibility"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_5 : num 3 1 1 2 2 3 2 1 3 3 ...  
## ..- attr(\*, "label")= chr "ach\_employfulltime"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_6 : num 3 3 3 3 2 3 2 3 2 3 ...  
## ..- attr(\*, "label")= chr "ach\_avoiddrunkdriving"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_7 : num 3 3 3 2 2 1 2 1 3 2 ...  
## ..- attr(\*, "label")= chr "ach\_parentasequal"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_8 : num 2 3 2 3 2 1 2 2 3 2 ...  
## ..- attr(\*, "label")= chr "ach\_emotionalcontrol"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_9 : num 2 3 2 3 3 3 2 2 3 2 ...  
## ..- attr(\*, "label")= chr "ach\_considerothers"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"  
## $ moa2#2\_10: num 1 1 1 2 1 1 2 1 3 3 ...  
## ..- attr(\*, "label")= chr "ach\_supportparentsfinances"  
## ..- attr(\*, "format.spss")= chr "F12.1"  
## ..- attr(\*, "display\_width")= int 12  
## ..- attr(\*, "labels")= Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "no" "somewhat" "yes"

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### Dataset Citation:

Grahe, J. E., Chalk, H. M., Cramblet Alvarez, L. D., Faas, C., Hermann, A., McFall, J. P., & Molyneux, K. (2018, January 10). EAMMi2 Public Data. Retrieved from: <https://osf.io/x7mp2/>.

### Keywords:

self report, emerging adulthood

### Use License:

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### Geographic Description - City/State/Country of Participants:

Mostly United States but any English speaker could complete.

### Column Metadata:

EAMMi2metadata <- import("mcfall\_metadata.csv")  
flextable(EAMMi2metadata) %>% autofit()

| Variable | Label |
| --- | --- |
| moa1#1\_1 | imp\_financialindependence |
| moa1#1\_2 | imp\_nolongerhom |
| moa1#1\_3 | imp\_finishededucation |
| moa1#1\_4 | imp\_married |
| moa1#1\_5 | imp\_havechild |
| moa1#1\_6 | imp\_settledcareer |
| moa1#1\_7 | imp\_avoiddrunk |
| moa1#1\_8 | imp\_avoiddrugs |
| moa1#1\_9 | imp\_usecontraception |
| moa1#1\_10 | imp\_committedlongterm |
| moa1#2\_1 | ach\_financialindependence |
| moa1#2\_2 | ach\_nolongerhome |
| moa1#2\_3 | ach\_finishededucation |
| moa1#2\_4 | ach\_married |
| moa1#2\_5 | ach\_havechild |
| moa1#2\_6 | ach\_settledcareer |
| moa1#2\_7 | ach\_avoiddrunk |
| moa1#2\_8 | ach\_avoiddrugs |
| moa1#2\_9 | ach\_usecontraception |
| moa1#2\_10 | ach\_committedlongterm |
| moa2#1\_1 | imp\_indepedentdecisions |
| moa2#1\_2 | imp\_supportfamily |
| moa2#1\_3 | imp\_carechildren |
| moa2#1\_4 | imp\_acceptresponsibility |
| moa2#1\_5 | imp\_employfulltime |
| moa2#1\_6 | imp\_avoiddrunkdriving |
| moa2#1\_7 | imp\_parentasequal |
| moa2#1\_8 | imp\_emotionalcontrol |
| moa2#1\_9 | imp\_considerothers |
| moa2#1\_10 | imp\_supportparentsfinance |
| moa2#2\_1 | achi\_independentdecisions |
| moa2#2\_2 | ach\_supportfamily |
| moa2#2\_3 | ach\_carechildren |
| moa2#2\_4 | ach\_acceptresponsibility |
| moa2#2\_5 | ach\_employfulltime |
| moa2#2\_6 | ach\_avoiddrunkdriving |
| moa2#2\_7 | ach\_parentasequal |
| moa2#2\_8 | ach\_emotionalcontrol |
| moa2#2\_9 | ach\_considerothers |
| moa2#2\_10 | ach\_supportparentsfinances |
| IDEA\_1 | IDEA-manypossibility |
| IDEA\_2 | IDEA-exploration |
| IDEA\_3 | IDEA-stressed |
| IDEA\_4 | IDEA-highpressure |
| IDEA\_5 | IDEA-definingself |
| IDEA\_6 | IDEA-beliefsvalues |
| IDEA\_7 | IDEA-someways |
| IDEA\_8 | IDEA-graduallyadult |
| swb\_1 | SWB-ideal |
| swb\_2 | SWB-excellent |
| swb\_3 | SWB-satisfied |
| swb\_4 | SWB-important |
| swb\_5 | SWB-changenothing |
| swb\_6 | SWB-highselfesteem |
| mindful\_1 | MIND-emotnotconscious |
| mindful\_2 | MIND-breakspill |
| mindful\_3 | MIND-difficultfocus |
| mindful\_4 | MIND-walknoattention |
| mindful\_5 | MIND-notnoticetension |
| mindful\_6 | MIND-forgetnames |
| mindful\_7 | MIND-runautomatic |
| mindful\_8 | MIND-rushactivities |
| mindful\_9 | MIND-goalfocus |
| mindful\_10 | MIND-jobautomatically |
| mindful\_11 | MIND-listensametime |
| mindful\_12 | MIND-driveautomatic |
| mindful\_13 | MIND-preoccupied |
| mindful\_14 | MIND-withoutpayattention |
| mindful\_15 | MIND-snackunaware |
| belong\_1 | Belong\_nobother |
| belong\_2 | Belong\_avoidrejection |
| belong\_3 | Belong\_seldomworry |
| belong\_4 | Belong\_needpeople |
| belong\_5 | Belong\_othersacceptme |
| belong\_6 | Belong\_notalone |
| belong\_7 | Belong\_OKalone |
| belong\_8 | Belong\_strongNEED |
| belong\_9 | Belong\_bothernotinplans |
| belong\_10 | Belong\_feelingseasilyhurt |
| belnow | BELONG-feelIbelong |
| efficacy\_1 | EFF-solvetryhard |
| efficacy\_2 | EFF-getwhatwant |
| efficacy\_3 | EFF-stick2goals |
| efficacy\_4 | EFF-dealunexpected |
| efficacy\_5 | EFF-resourceful |
| efficacy\_6 | EFF-solvenecesseffort |
| efficacy\_7 | EFF-remaincalm |
| efficacy\_8 | EFF-findseveralsolutions |
| efficacy\_9 | EFF-thinkofsolution |
| efficacy\_10 | EFF-whatevercomesmyway |
| support\_1 | SUP-specialforneed |
| support\_2 | SUP-specialjoysorry. |
| support\_3 | SUP-familyhelp |
| support\_4 | SUP-familyemotionalhelp |
| support\_5 | SUP-specialcomfort |
| support\_6 | SUP-friendshelp |
| support\_7 | SUP-countonfriends |
| support\_8 | SUP-talkfamily |
| support\_9 | SUP-friendsjoysorrow |
| support\_10 | SUP-specialcaresfeelings |
| support\_11 | SUP-familyhelpdecisions |
| support\_12 | SUP-friendstalkproblems |
| SocMedia\_1 | SocMed-avoiddrifting |
| SocMedia\_2 | SocMed-friendsplanstonight |
| SocMedia\_3 | SocMed-friendsintouch |
| SocMedia\_4 | SocMed-friendsupto |
| SocMedia\_5 | SocMed-Reconnectwithpeople |
| SocMedia\_6 | SocMed-Findoutmore |
| SocMedia\_7 | SocMed-someonetoknowbetter |
| SocMedia\_8 | SocMed-makenewfriends |
| SocMedia\_9 | SocMed-getintouch |
| SocMedia\_10 | SocMed-getinformation |
| SocMedia\_11 | SocMed-shareinformation |
| usdream\_1 | AmDreamImport |
| usdream\_2 | AmDreamAchieve |
| usdream\_3 | attentionchechshould be1 |
| transgres\_1 | trangress-lietoyou |
| transgres\_2 | transgress-rumors |
| transgres\_3 | transgress-goteven |
| transgres\_4 | transgress-degraded |
| NPI1 | NPI1 |
| NPI2 | NPI2 |
| NPI3 | NPI3 |
| NPI4 | NPI4 |
| NPI5 | NPI5 |
| NPI6 | NPI6 |
| NPI7 | NPI7 |
| NPI8 | NPI8 |
| NPI9 | NPI9 |
| NPI10 | NPI10 |
| NPI11 | NPI11 |
| NPI12 | NPI12 |
| NPI13 | NPI13 |
| exploit\_1 | EXP-benefitfromothers |
| exploit\_2 | EXP-profitfromothers |
| exploit\_3 | EXP-usingothers |
| POQ1 | DISID-disabilityinterferes |
| POQ2 | DISID-dontthinkdisabled |
| POQ3 | DISID-lackconfidence |
| POQ4 | DISID-proudtobedisabled |
| POQ5 | DISID-ashamed |
| POQ6 | DISID-notreducedenjoy |
| POQ7 | DISID-limitedfriendships |
| POQ8 | DISID-sourcestrength |
| POQ9 | DISID-accomplishmore |
| POQ10 | DISID-notaproblem |
| POQ11 | DISID-normallife |
| POQ12 | DISID-betterperson |
| POQ13 | DISID-importantpart |
| POQ14 | DISID-proudofdisability |
| POQ15 | DISID-disabilityenriches |
| physSx\_1 | Phys\_stomach |
| physSx\_2 | Phys-back |
| physSx\_3 | Phys-appendages |
| physSx\_4 | Phys-headaches |
| physSx\_5 | Phys-chest |
| physSx\_6 | Phys-dizziness |
| physSx\_7 | Phys-fainting |
| physSx\_8 | Phys-heartpound |
| physSx\_9 | Phys-shortness |
| physSx\_10 | Phys-constipation |
| physSx\_11 | Phys-nausea |
| physSx\_12 | Phys-tired |
| physSx\_13 | Phys-troublesleeping |
| stress\_1 | stress-beenupset |
| stress\_2 | stress-unablecontrol |
| stress\_3 | stress-nervous |
| stress\_4 | stress-confident |
| stress\_5 | stress-goingmyway |
| stress\_6 | stress-couldnotcope |
| stress\_7 | stress-controlirritations |
| stress\_8 | stress-ontopofthings |
| stress\_9 | stress-beenangered |
| stress\_10 | stress-feltdifficulties |
| Variables in the working file |  |

EAMMi2 <- EAMMi2[complete.cases(EAMMi2),]  
EAMMi2long <- EAMMi2 %>% pivot\_longer(cols = everything()) %>%   
 dplyr::rename(item = name, score = value) %>%   
 group\_by(item) %>%   
 sample\_n(size = 50)  
  
flextable(head(EAMMi2long)) %>% autofit()

| item | score |
| --- | --- |
| moa1#1\_1 | 4 |
| moa1#1\_1 | 3 |
| moa1#1\_1 | 4 |
| moa1#1\_1 | 4 |
| moa1#1\_1 | 4 |
| moa1#1\_1 | 3 |

### AIPE Analysis:

#### Stopping Rule

What the usual standard error for the data that could be considered for our stopping rule?

SE <- tapply(EAMMi2long$score, EAMMi2long$item, function (x) { sd(x)/sqrt(length(x)) })  
min(SE)

## [1] 0.04956958

quantile(SE, probs = .4)

## 40%   
## 0.09805288

max(SE)

## [1] 0.1781767

cutoff <- quantile(SE, probs = .4)  
  
# we can also use semanticprimer's function  
cutoff\_score <- calculate\_cutoff(population = EAMMi2long,  
 grouping\_items = "item",  
 score = "score",  
 minimum = min(EAMMi2long$score),  
 maximum = max(EAMMi2long$score))  
cutoff\_score$cutoff

## 40%   
## 0.09805288

The items have a range of 0.0495696 to 0.1781767. We could use the 40% decile SE = 0.0980529 as our critical value for our stopping rule given the manuscript results. We could also have a set SE to a specific item if we do not believe we have representative pilot data in this example. You should also consider the scale when estimating these values (i.e., 1-7 scales will have smaller estimates than 1-100 scales).

#### Minimum Sample Size

To estimate minimum sample size, we should figure out what number of participants it would take to achieve 80% of the SEs for items below our critical score of 0.0980529?

# sequence of sample sizes to try  
samplesize\_values <- seq(20, 200, 5)  
  
# create a blank table for us to save the values in   
  
sim\_table <- matrix(NA,   
 nrow = length(samplesize\_values),   
 ncol = length(unique(EAMMi2long$item)))  
  
# make it a data frame  
sim\_table <- as.data.frame(sim\_table)  
  
# add a place for sample size values   
sim\_table$sample\_size <- NA  
  
# loop over sample sizes  
for (i in 1:length(samplesize\_values)){  
   
 # temp dataframe that samples and summarizes  
 temp <- EAMMi2long %>%   
 group\_by(item) %>%   
 sample\_n(samplesize\_values[i], replace = T) %>%   
 summarize(se = sd(score)/sqrt(length(score)))   
   
 colnames(sim\_table)[1:length(unique(EAMMi2long$item))] <- temp$item  
 sim\_table[i, 1:length(unique(EAMMi2long$item))] <- temp$se  
 sim\_table[i, "sample\_size"] <- samplesize\_values[i]  
 }  
  
final\_sample <-   
 sim\_table %>%   
 pivot\_longer(cols = -c(sample\_size)) %>%   
 group\_by(sample\_size) %>%   
 summarize(percent\_below = sum(value <= cutoff)/length(unique(EAMMi2long$item))) %>% ungroup()  
  
flextable(final\_sample %>% head()) %>% autofit()

| sample\_size | percent\_below |
| --- | --- |
| 20 | 0.150 |
| 25 | 0.125 |
| 30 | 0.225 |
| 35 | 0.225 |
| 40 | 0.300 |
| 45 | 0.375 |

final\_table <- calculate\_correction(  
 proportion\_summary = final\_sample,  
 pilot\_sample\_size = EAMMi2long %>% group\_by(item) %>%   
 summarize(sample\_size = n()) %>% ungroup() %>%   
 summarize(avg\_sample = mean(sample\_size)) %>% pull(avg\_sample),  
 proportion\_variability = cutoff\_score$prop\_var  
 )  
  
flextable(final\_table) %>%   
 autofit()

| percent\_below | sample\_size | corrected\_sample\_size |
| --- | --- | --- |
| 80 | 85 | 67.22877 |
| 85 | 105 | 82.63902 |
| 90 | 110 | 86.31245 |
| 95 | 140 | 107.21467 |

Based on these simulations, we can decide our minimum sample size is likely close to 67.

#### Maximum Sample Size

In this example, we could set our maximum sample size for 90% power, which would equate to 86 participants.

#### Final Sample Size

In any estimate for sample size, you should also consider the potential for missing data and/or unusable data due to any other exclusion criteria in your study (i.e., attention checks, speeding, getting the answer right, etc.). Another important note is that these estimates are driven by the number of items. Fewer items would require smaller sample sizes to achieve minimum power. Note: Several redundant (e.g., reverse coded items) and/or not useful variables (various checks) were omitted.