### NP Trends Survey Data Preparation Guide

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### **Preface**

This is a Guide Book for preparing survey data from the Nonprofit Trends project.

### 1 R Setup

The following R packages are used throughout the data preparation guide:

• haven: import data from Stata and SAS

dplyr: data wranglingtidyr: data wrangling

epoxy: quarto document textmemisc: survey data tools

• labelled: memisc helper package

```
library( haven )
library( dplyr )
```

```
Attaching package: 'dplyr'

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

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

#### 1 R Setup

```
library( tidyr )
library( epoxy )
library( memisc )
Loading required package: lattice
Loading required package: MASS
Attaching package: 'MASS'
The following object is masked from 'package:dplyr':
    select
Attaching package: 'memisc'
The following objects are masked from 'package:dplyr':
    collect, recode, rename, syms
The following objects are masked from 'package:stats':
    contr.sum, contr.treatment, contrasts
The following object is masked from 'package:base':
    as.array
```

#### library( labelled )

### 2 Generating Qualtrics Dictionaries

Working with qualtrics files can be tricky because surveys can utilizes question families that contain multiple levels of responses. As a result, variables belong to variable groups. The raw qualtrics names are not very helpful, so dictionary crosswalk files have been create to facilitate data preparation workflow.

#### Example Variable Family:

QUALTRICS		
VARIABLE NAME	NEW NAME	LABEL
Staff#1_1_1	Staff_Fulltime_2021	Number of full time staff in 2021
Staff#1_2_1	Staff_Parttime_2021	Number of part time staff in 2021
Staff#1_3_1	Staff_Boardmmbr_2021	Number of Board Members in 2021
Staff#2_1_1	Staff_Fulltime_2022	Number of full time staff in 2022
Staff#2_2_1	Staff_Parttime_2022	Number of part time staff in 2022
Staff#2_3_1	Staff_Boardmmbr_2022	Number of Board Members in 2022

Some utility scripts have been written to extract variable dictionary elements from qualtrics survey file exports and convert them into a basic crosswalk file.

#### 2.1 Qualtrics File to Crosswalk

```
# source( "../data-dictionaries/R/00-data-processing-utils.R" )
URL <- "https://raw.githubusercontent.com/UrbanInstitute/nccs-nptrends/main/</pre>
source( URL )
##########
######### DATA DICTIONARY
##########
# USE LEGACY = TRUE
# FOR THE YEAR 2 DATA DICTIONARY,
# FALSE FOR SUBSEQUENT YEARS
d <-
  read_survey(
    "data-raw/wave-02-qualtrics-download-29mar23.csv",
    legacy = T)
head( as.data.frame(d) )
# exports data dictionary
dd <- extract_colmap( d )</pre>
# add group variables
# and factor labels
dd <-
  dd %>%
  mutate( group_name = append_groups(qname) ) %>%
```

#### 2.2 Dictionary Files

After generating the skeleton of the crosswalk file from the script, it would be completed by a research assistant by providing information for fields marked **user** in the table:

DD VARIABLE	DESCRIPTION	SOURCE
q	question number (order)	qualtrix
vname_raw	variable name (from qualtrix export)	qualtrix
vname	variable name (final)	user
vlabel	variable label	user
type	data type (numeric, character, factor, logical, date)	user
group	group name	r script
group_lev1	factor levels	user

#### 2 Generating Qualtrics Dictionaries

DD VARIABLE	DESCRIPTION	SOURCE
group_lev2	second factor level for	user
	double-grouped variables	
	(e.g. finances_1_1)	
$group\_lev\_draft$	parsed categories	r script
	(clean up and use as	
	group_lev labels)	
add_noise	add noise to this	user
	variable to anonymize?	
description	survey question full	qualtrix
main	survey question sub	qualtrix
sub	survey question	qualtrix
	response categories	
	(kindof)	

These steps need to be completed each year. Most of the completed dictionaries can be reused if questions are not changing, but note that changes to the order of the questions in the survey can change the qualtrics naming conventions, and any new questions added would need documentation.

These dictionary crosswalk files are utilized in subsequent steps.

#### 2.2.1 Preview

```
dd <- readxl::read_xlsx( "../data-dictionaries/dd-nptrends-wave-02.xlsx", she
head( dd[30:50,] )</pre>
```

# A tibble:  $6 \times 13$ 

#### 2.2 Dictionary Files

```
q vname vname_raw vlabel type group_lev1 group_lev2 group_lev_draft
 <dbl> <chr> <chr>
                       <chr> <chr> <chr> <chr>
                                                      <chr>
                                                                <chr>
1
     30 Addr~ MainAddr~ Nonpr~ char~ Main~ address
                                                      <NA>
                                                                City and State
2
     31 Addr~ MainAddr~ Nonpr~ char~ Main~ address
                                                     <NA>
                                                                ZIP Code
     32 PrgS~ ProgChan~ Indic~ bool~ Prog~ number of~ increase
                                                                Increased the ~
     33 PrgS~ ProgChan~ indic~ bool~ Prog~ number of~ decrease
                                                                Dcrsuced the n~
5
     34 PrgS~ ProgChan~ indic~ bool~ Prog~ services
                                                                Suspended or p~
     35 PrgS~ ProgChan~ Indic~ bool~ Prog~ people se~ increase
                                                                Increased the ~
# i 4 more variables: add_noise <chr>, description <chr>, main <chr>, sub <chr>
```

# Part I YEAR TWO DATA

Load the data needed to process the second year survey results.

# Part II Required R Packages

This chapter will utilize the following packages:

```
library( haven )
library( dplyr )
library( tidyr )
library( epoxy )
library( memisc )
library( labelled )
```

# Part III Load the Data

```
# LOAD DATA DICTIONARY
dd <-
  readxl::read_xlsx(
   "../data-dictionaries/dd-nptrends-wave-02.xlsx",
   sheet = "data dictionary" )
# USE RAW VNAME IF VNAME IS EMPTY:
dd$vname[ is.na(dd$vname) ] <-</pre>
   dd$vname_raw[ is.na(dd$vname) ]
# LOAD QUALTRICS SURVEY DATA
fpath <- "DATA-PREP/02-year-two/01-data-raw/"</pre>
fname <- "wave-02-qualtrics-download-29mar23.csv"</pre>
survey_df <- readr::read_csv( paste0( fpath, fname ) )</pre>
survey_df <- survey_df[ -(1:2), ]</pre>
                                                            # drop qualtrics headers
fname <- "YEAR-02-COMPLETE-CASE-CODES.csv"</pre>
cases <- read.csv( paste0(fpath,fname) )</pre>
cases <- dplyr::select( cases, EIN, Completion_Status )</pre>
survey_df <- merge( survey_df, cases, by="EIN", all.x=T )</pre>
survey_df <-
  survey_df %>%
  dplyr::filter( Completion_Status %in% c("Complete", "Partial_keep") ) %>%
  dplyr::select( - Completion_Status )
```

Note the raw data is challenging because it contains qualtrics encodings and missing values need context to be used correctly (e.g. were the questions skipped by skip logic, or by the respondent?).

survey\_df[ 1:6, 51:55 ] %>% pander::pander() # data peek

PeopleServed#2_	2DemandNextY	eSataff#1_1	_1Staff#1_2	_1Staff#1_3_1
-99	Increase	60	30	-99
-99	Increase	3	4	9
-99	Increase	3	1	10
-99	Increase	13	2	11
N/A	Increase	1	-99	14
N/A	Increase	1	8	11

# Part IV Data Workflow

The following chapters describe the workflow used to import qualtrics data and apply cleaning and transformation steps to prepare the restricted use file and public use file for subsequent analysis:

- 1. Renaming columns
- 2. Drop nuisance columns (survey deployment attributes)
- 3. Add meaningful labels to response values
- 4. Dropping duplicates, incomplete responses and test responses

#### **Renaming Columns**

Columns referencing survey questions are renamed with the help of a data dictionary to improve readability.

```
torename <-
  dd %>%
  dplyr::select( vname, vname_raw ) %>%
  tidyr::drop_na()
```

#### **Examples:**

```
[1] "DemandNextYear" "Staff#1_1_1" "Staff#1_2_1" "Staff#1_3_1"
```

Give the data meaningful names so that it is easier to work with.

#### Examples:

#### **Drop Nuisance Fields**

Many of the exported qualtrics fields contain non-useful metadata or are empty. These have been labeled as "DROP" in the **group** field. Remove these for convenience.

```
# SELECT COLUMNS TO DROP:
DROP_THESE <- dd$vname[ dd$group == "DROP" ] |> na.omit()

survey_df <-
    survey_df %>%
    dplyr::select( -any_of( DROP_THESE ) )
```

# Part V Add Survey Weights

```
# ADD SURVEY WEIGHTS
fpath <- "DATA-PREP/00-sample-framework/"
fname <- "year2wt.csv"
wt2 <- readr::read_csv( paste0( fpath, fname ) )
survey_df <- merge( survey_df, wt2, by.x="EIN", by.y="ein", all.x=TRUE )</pre>
```

# Part VI Groups of Variables

Each group of survey questions comes with its own set of valid inputs that must be recoded separately. For example, "N/A"'s are options for some survey questions and not for others, and some survey questions allow for manual text inputs.

The below code chunk separates all survey questions into their respective categories before further separating each category into numeric, text or NA inputs.

NA questions here refer to "Check here if not applicable to your organization" questions in the survey, where a "C" indicates that the respondent has checked the N/A box.

- 15 questions about CHANGES TO PROGRAMS AND SER-VICES
- 4 questions about the NUMBER OF PEOPLE EACH ORGA-NIZATION SERVES
- 1 question about OVERALL PROGRAM DEMAND
- 27 questions about STAFF NUMBERS
- 2 questions about DONOR AND VOLUNTEER IMPORTANCE
- 11 questions about CHANGES TO LEADERSHIP
- 26 questions about THE RACE AND GENDER OF CEOS AND BOARD CHAIRS
- 8 questions about CHANGES TO ORGANIZATIONAL FI-NANCES
- 2 questions about CARES FUNDING
- 2 questions about FINANCIAL RESERVES
- 9 questions about REVENUE SOURCES
- 26 questions about FUNDRAISING SOURCES
- 2 questions about DONOR TYPES IN FUNDRAISING
- 7 questions about FUNDRAISING YIELDS
- 11 questions about FUNDRAISING STRATEGY CHANGES
- 1 questions about MAJOR GIFT AMOUNTS

# 3 Relabeling Qualtrics Variables

Qualtrics uses some random values like -99 to encode for things like skipped questions, "not sure" categories, or "not applicable" answers. Currently one needs to a dictionary to look up every variable to understand what each value means.

In addition, some response categories are confusing because they equate to a missing response. For example, from an analytical perspective an answer of "not sure" and skipping the question completely both equate to a missing value when the response categories are yes or no.

The **memisc** package was designed for working with survey data. It allows you to label response categories in the data and also designate different types of missingness (e.g. Unsure, N/A, and -99 can all be coded as missing).

Several factor and boolean variables in this survey data set have inconsistent coding. They are recoded in this section and the decision criteria are documented for inspection and review.

# 4 Yes/No Questions

Original Va	lue Description	Recode Value	Code as Missing?
Yes	Yes	1	No
No	No	0	No
Unsure	Unsure	97	Yes
N/A	Not Applicable	98	Yes
-99	Incomplete	99	Yes
NA	Unanswered	NA	Yes

```
" N/A =>> 98 ",
" -99 =>> 99 " )

rules <- parse_rules( RULES )
pattern <- rules[[ "pattern" ]]
replace <- rules[[ "replace" ]]

# MEMISC LABELS AND MISSING VALUE CODES
values <- c( 0, 1, 97, 98, 99 )
labels <- c( "No", "Yes", "Unsure", "Not Applicable", "N/A" )
missing <- c( 97, 98, 99 )

# RECODE VARIABLES
survey_df <-
survey_df %>%
recode_columns( k=COLUMNS, pattern, replace, values, labels, missing )
```

#### Example:

PrgSrvc\_IncrNum — 'TYPE: boolean'

"Indicates an increase in number of programs or services"

Storage mode:

character

Measurement:

nominal

Missing values:

97, 98, 99

Values and labels

N

Valid

Total

'No'

.

'Yes'

.

 ${\bf M}$ 

# 4 Yes/No Questions

'Unsure'

.

 ${\bf M}$ 

'Not Applicable'

 $\mathbf{M}$ 

'N/A'

NA

 ${\bf M}$ 

7

# QUESTION TXT:

3. In the last year (between January 2021-December 2021), did your organization make any of the following changes to your Programs, as compared to 2020? - Increased the number of programs or services

# 5 Single Checkboxes

These questions are presented as a checkbox to the respondent. They indicate an affirmative answer to the question.

# 5.1 Seek or Receive Fundraising Questions

These checkboxes are ticked by the respondent to indicate if they have sought or received funding from a specific source.

Original Value	Description	Recode Label	Recode Value	Code as Missing?
(select all that apply)	Checkbox Checked	Yes	1	No
-99	Checkbox Unchecked	No	0	No
NA	Unanswered	NA	NA	Yes

```
# APPLY TO COLUMNS K:
COLUMNS <- fundraise_skrcv_qns_bool

# VALUES THAT NEED RECODING

RULES <- c(</pre>
```

#### Example:

FndRaise\_LocGvtGrnt\_Seek — 'TYPE: boolean'

"indicates if nonprofit sought a local government grant"

Storage mode:

character

Measurement:

nominal

Missing values:

UNSURE

Values and labels

# 5.1 Seek or Receive Fundraising Questions

N

Valid

Total

0

'No'

317

46

.

8

45

•

9

1

`Yes"

361

53

•

2

52

2

NA

 ${\bf M}$ 

#### 5 Single Checkboxes

13

1

.

9

#### QUESTION TXT:

9. In the last year (2021), did your organization seek or receive revenue from any of the followi... - Did you SEEK or APPLY for this funding?
- Local government grants - (select all that apply)

#### 5.2 Race and Gender Checkboxes

These checkboxes are ticked by the respondent to indicate if their CEO or board chair belong to a specified race or gender identity.

Original Value	Description	Recode Label	Recode Value	Code as Missing?	
A . /D . C	*				
Asian/Pacific		Yes	1	No	
Islander	Checked				
Black/African	Checkbox	Yes	1	No	
American	Checked				
Latinx/Hispan	iCheckbox	Yes	1	No	
, -	Checked				
Native	Checkbox	Yes	1	No	
Ameri-	Checked				
can/American					
Indian					
White	Checkbox	Yes	1	No	
	Checked				

5.2 Race and Gender Checkboxes

Original		Recode	Recode	Code as
Value	Description	Label	Value	Missing?
Man	Checkbox Checked	Yes	1	No
Woman	Checkbox Checked	Yes	1	No
Trans	Checkbox Checked	Yes	1	No
Gender non- conforming/N Binary	Checkbox of hecked	Yes	1	No
Other (please specify)	Checkbox Checked	Yes	1	No
0	Checkbox Unchecked	No	0	No
-99	Incomplete	Incomplete	99	Yes
NA	Unanswered	NA	NA	Yes

```
Woman
                                                  =>>
                                        Trans
                                                  =>>
           "Gender non-conforming/Non-Binary
                                                  =>>
                     Other (please specify):
                                                  =>>
                                                         1
                                           -99
                                                  =>>
                                             0
                                                  =>>
                                                             11
                                                                     )
                                                          0
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
# MEMISC LABELS AND MISSING VALUE CODES
values <- c( "0", "1", "x" )</pre>
labels <- c( "No", "Yes", "Incomplete" )</pre>
missing <- "x"
# RECODE VARIABLES
survey_df <-</pre>
  survey_df %>%
  recode_columns( k=COLUMNS, pattern, replace, values, labels, missing )
```

#### Example:

```
CEOrace_AAPI — 'TYPE: boolean'
"race of CEO"
Storage mode:
character
Measurement:
nominal
```

#### 5.2 Race and Gender Checkboxes

Missing values:
x
Values and labels
N
Valid
Total
0
'No'
48
98
0
6
9
1
'Yes'
1
2
0
0

#### 5 Single Checkboxes

1

 $\mathbf{X}$ 

Μ

'Incomplete'

2

0

3

NA

Μ

640

92

6

#### QUESTION TXT:

15.a. Which of the following best describes the race/ethnicity for your organization's current Chief Executive (i.e., Executive Director or CEO)? (Select all that apply) - Selected Choice - Asian/Pacific Islander

# 5.3 N/A Checkboxes

These questions are presented as a checkbox to the user to indicate that a question is not applicable. "Yes" here means "Yes, this question is not applicable".

Original Value	Description	Recode Label	Recode Value	Code as Missing?
$\overline{\mathrm{C}}$	Yes, this question is not applicable	Yes	1	No
N/A	Yes, this question is not applicable	Yes	1	No
-99	Incomplete	No	0	No
NA	Unanswered	NA	NA	Yes

```
pattern <- rules[[ "pattern" ]]
replace <- rules[[ "replace" ]]

# MEMISC LABELS AND MISSING VALUE CODES
values <- c( "0", "1" )
labels <- c( "No", "Yes" )
missing <- NULL

# RECODE VARIABLES
survey_df <-
    survey_df %>%
    recode_columns( k=COLUMNS, pattern, replace, values, labels, missing )
```

#### Example:

Staff\_Fulltime\_NA — 'TYPE: boolean'

"Number of full time staff not applicable"

Storage mode:

character

Measurement:

nominal

Values and labels

Ν

Valid

Total

0

'No'

# $5.3\ N/A\ Checkboxes$

#### 5 Single Checkboxes

STAFF & VOLUNTEERS 6. How many (paid and unpaid) people in your organization will have worke... - Check here if not applicable for your organization - Full-time paid staff (35 or more hours /week) - C

# 6 Multi-selection Inputs

These questions offer the user with multiple options to select one from. Since the options are ordered categories, they are coded on an ordinal scale.

#### 6.1 Increase - Decrease Questions

There 2 questions that ask respondents to define changes via an increase or decrease relative to previous years. They are recoded on an ordinal scale.

# 6.2 Changes in Demand Questions

Original Value	Description	Recode Label	Recode Value	Code as Missing?
Increase	Increase	Increase	2	No
Stay the	Stay the	Unchanged	1	No
same	same			
Decrease	Decrease	Decrease	0	No
-99	Incomplete	No	99	Yes
NA	Unanswered	NA	NA	Yes

```
# APPLY TO COLUMNS K:
COLUMNS <- demand_fct_qns
# VALUES THAT NEED RECODING
RULES <- c(
             " Decrease =>> 0 ",
             " Stay the same =>> 1 ",
" Increase =>> 2 ",
" -99 =>> x " )
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
# MEMISC LABELS AND MISSING VALUE CODES
values <- c(2, 1, 0, "x")
labels <- c( "Increase", "Unchanged", "Decrease", "Incomplete" )</pre>
missing <- "x"
# RECODE VARIABLES
survey_df <-</pre>
 survey_df %>%
 recode_columns( k=COLUMNS, pattern, replace, values, labels, missing )
```

#### Example:

Dmnd\_NxtYear — 'TYPE: factor'

"Demand for programs or services next year"

Storage mode:

# 6.2 Changes in Demand Questions

character
Measurement:
nominal
Missing values:
x
Values and labels
N
Valid
Total
0
'Decrease'
17
2
5
2
5
1
'Unchanged'
148
21

# 6 Multi-selection Inputs

9

21

.

4

2

'Increase'

512

75

6

74

.

1

X

 ${\bf M}$ 

 ${\rm `Incomplete'}$ 

10

1

.

4

NA

 $\mathbf{M}$ 

4

60

0

6

#### QUESTION TXT:

5. In the next year, do you anticipate the demand for your programs to decrease, stay the same, or increase?

# 6.3 Changes in Fundraising Questions

Original Value	Description	Recode Label	Recode Value	Code as Missing?
Increased significantly (by more than 10%)	Largest Increase	Increase Significantly	5	No
Increased moderately (by less than 10%)	Second Largest Increase	Increase Moderately	4	No
Stayed more or less the same	Third Largest Increase	Unchanged	3	No
Decreased moderately (by less than 10%)	Fourth Largest Increase	Decrease Moderately	2	No

#### 6 Multi-selection Inputs

Original Value	Description	Recode Label	Recode Value	Code as Missing?
Decreased significantly (by more than 10%)	Fifth Largest Increase	Decrease Significantly	1	No
Unsure	Unsure	Unsure	99	Missing
-99	Incomplete	Incomplete	98	Yes
N/A	Not	Not	97	Yes
NA	Applicable Unanswered	Applicable NA	NA	Yes

```
# APPLY TO COLUMNS K:
COLUMNS <- fundraise_change_qns_fct
# VALUES THAT NEED RECODING
RULES <- c(
         Increased significantly (by more than 10%)
                                                        =>>
            Increased moderately (by less than 10%)
                                                        =>>
                       Stayed more or less the same
                                                               3
                                                        =>>
            Decreased moderately (by less than 10%)
                                                                2
                                                        =>>
     п
         Decreased significantly (by more than 10%)
                                                        =>>
     11
                                                                0
                                              Unsure
                                                        =>>
     11
                                                 -99
                                                        =>>
                                                               X
                                                 N/A
                                                        =>>
                                                               N/A
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
```

Storage mode:

character

Measurement:

nominal

Missing values:

Χ

Values and labels

Ν

Valid

Total

0

# 6 Multi-selection Inputs

# 6.3 Changes in Fundraising Questions

# 6 Multi-selection Inputs

.

.

N/A

'Not Applicable'

\_

X

 ${\bf M}$ 

 ${\rm `Incomplete'}$ 

#### 6.3 Changes in Fundraising Questions

NA

M

24

3

.

5

#### QUESTION TXT:

8.c. To the best of your knowledge, has each of the following categories of donations to your org... - In 2021 compared to 2020 - Overall donations

## 7 Level of Importance Questions

There are 2 questions that ask respondents to rank the importance of volunteers and donors respectively. However, both sets of options' are not identical. Hence, they are recoded to common values for reproducibility.

### 7.1 Volunteer Importance

Original Value	Description	Recode Label	Recode Value	Code as Missing?
Essential - we depend entirely on volunteers to carry out our mission and goals	Maximum Importance	Essential	5	No
Very important - we depend on volunteers for a wide range of tasks, but not all	Second Most Important	Very Important	4	No

### $7\ Level\ of\ Importance\ Questions$

Original		Recode	Recode	Code as
Value	Description	Label	Value	Missing?
Somewhat important - we depend on volunteers for several key tasks	Third Most Important	Somewhat Important	3	No
Not very important - we depend on volunteers for only non- essential tasks	Fourth Most Important	Not Very Important	2	No
Not at all important - we could carry out our mission and goals without using volunteers	Fifth Most Important	Not At All Important	1	No
We do not use volunteers	Sixth Most Important	Not Used	0	No
-99 NA	Incomplete Unanswered	Incomplete NA	99 NA	Yes Yes

```
# APPLY TO COLUMNS K:
COLUMNS <- volimportance_qns_fct
# VALUES THAT NEED RECODING
RULES <- c(
            Essential - we depend entirely on volunteers to carry out our mission and goals
            Very important - we depend on volunteers for a wide range of tasks, but not all
                         Somewhat important - we depend on volunteers for several key tasks
                  Not very important - we depend on volunteers for only non-essential tasks
  Not at all important - we could carry out our mission and goals without using volunteers
                                                                    We do not use volunteers
                                                                                          -99
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
# MEMISC LABELS AND MISSING VALUE CODES
values <-c(5, 4, 3, 2, 1, 0, "X")
labels <- c( "Essential", "Very Important", "Somewhat Important",
              "Not Very Important", "Not At All Important", "Not Used",
              "Incomplete" )
missing <- c( "X" )
# RECODE VARIABLES
survey_df <-
  survey_df %>%
  recode columns ( k=COLUMNS, pattern, replace, values, labels, missing )
```

#### Example:

VolImportance — 'TYPE: factor'

### 7 Level of Importance Questions

```
"Importance of volunteers to organization"
Storage mode:
character
Measurement:
nominal
Missing values:
X
Values and labels
Ν
Valid
Total
0
'Not Used'
45
6
6
6
5
1
'Not At All Important'
39
```

### 7.1 Volunteer Importance

### $7\ Level\ of\ Importance\ Questions$

 $\hbox{`Very Important'}$ 

.

'Essential'

X

M

 ${\rm `Incomplete'}$ 

0

.

9

NA

Μ

1

0

.

6

### QUESTION TXT:

7. How important were volunteers – other than board members – to the work your organization conducted in 2021?

### 7.2 Donor Importance

Original	Description	Recode	Recode	Code as
Value		Label	Value	Missing?
Essential, we depend entirely on individual donations to carry out our mission and goals	Maximum Importance	Essential	5	No

### $7\ Level\ of\ Importance\ Questions$

Original		Recode	Recode	Code as
Value	Description	Label	Value	Missing?
Very	Very	4	No	
important,	Important			
we depend				
on				
individual				
donations				
for a wide				
range of				
activities,				
but not all				
Important,	Third Most	Somewhat	3	No
we depend	Important	Important		
on				
individual				
donations				
for several				
key				
activities				
Not very	Fourth Most	Not Very	2	No
important,	Important	Important		
we depend				
on				
individual				
donations				
for only non-				
essential				
activities				

7.2 Donor Importance

Original	Description	Recode	Recode	Code as
Value		Label	Value	Missing?
Not at all important, we could carry out our mission and goals without donations from individuals	Fifth Most Important	Not At All Important	1	No
We do not receive donations from individuals	Sixth Most Important	Not Used	0	No
-99	Incomplete	Incomplete	99	Yes
NA	Unanswered	NA	NA	Yes

```
# APPLY TO COLUMNS K:
COLUMNS <- donimportance_qns_fct

# VALUES THAT NEED RECODING
RULES <- c(</pre>
```

" Essential, we depend entirely on individual donations to carry out our mission

"Very important, we depend on individual donations for a wide range of activities, bu

"Important, we depend on individual donations for several key a

"Not very important, we depend on individual donations for only non-essential a

"Not at all important, we could carry out our mission and goals without donations from in

#### Example:

DonImportance — 'TYPE: factor'

"importance of donors to organization"

Storage mode:

character

Measurement:

nominal

Missing values:

X

### 7.2 Donor Importance

# Values and labels Ν Valid Total 'Not Used' 'Not At All Important'

### 7 Level of Importance Questions

```
'Not Very Important'
56
8
2
8
1
3
'Somewhat Important'
132
19
4
19
1
4
'Very Important'
282
41
5
```

### 7.2 Donor Importance

'Essential' X  ${\rm M}$  ${\rm `Incomplete'}$ NA ${\rm M}$ 

 6

### QUESTION TXT:

8. How important were donations from individuals (including direct donations and indirect donations through federated giving programs, United Way, and donor advised funds, or in-kind donations) to the work of your organization in 2021?

# **8 Frequency Questions**

These questions ask respondents to rank the frequency at which they engage in an activity.

Original Value	Description	Recode Label	Recode Value	Code as Missing?
Frequently	Most Frequent	Frequently	4	No
Almost all the time	Second Most Frequent	More Often Than Not	3	No
Occasionally	Third Most Frequent	Occasionally	2	No
Rarely	Fourth Most Frequent	Rarely	1	No
Never	Fifth Most Frequent	Occasionally	0	No
-99	Incomplete	Incomplete	99	Yes
NA	Unanswered	NA	NA	Yes

```
# APPLY TO COLUMNS K:
COLUMNS <- extaffairs_qns_fct

# VALUES THAT NEED RECODING

RULES <- c(</pre>
```

```
Frequently
                                =>>
         Almost all the time
                                =>>
                                        3
                Occasionally
                                        2
                                =>>
     11
                      Rarely
                                =>>
                                      1
                       Never
                                =>>
                                        0
                                =>> X "
                          -99
                                                )
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
# MEMISC LABELS AND MISSING VALUE CODES
values <-c(4, 3, 2, 1, 0, "X")
labels <- c( "Frequently", "More Often than Not",
              "Occasionally", "Rarely", "Never", "Incomplete")
missing <- c( "X" )
# RECODE VARIABLES
survey_df <-
  survey_df %>%
  recode_columns( k=COLUMNS, pattern, replace, values, labels, missing )
```

#### Example:

ExtAffairs\_GenEd — 'TYPE: factor'

"frequency of activities aimed at educating the general public about a specific policy issue and/or the interests of certain groups"

Storage mode:

character

Measurement:

nominal

Missing values: X Values and labels Ν Valid Total 0 'Never' 167 29 0 24 2 1 'Rarely' 98 17 0 14

# 8 Frequency Questions ${\rm `Occasionally'}$ 'More Often than Not' `Frequently'

.

2

16

.

8

X

Μ

'Incomplete'

10

1

•

4

NA

 ${\rm M}$ 

106

15

•

3

### QUESTION TXT:

EXTERNAL AFFAIRS 16. During the last two years (2020-2021), how often did your organization conduct the following activities? (Including at the local, county, state, or federal level). - Educate the general public about a specific policy issue and/or the interests of certain groups

## 9 Integer Inputs

These questions accept an integer input from users to indicate the number of staff they have, people they served, or donors they have.

Original Value	Description	Recode Label	Recode Value	Code as Missing?
Whole Number	Number of Staff, People or Donors	NA	Integer Value	No
N/A	Not Applicable	NA	-1	Yes
-99	Incomplete	NA	-2	Yes
NA	Unanswered	NA	NA	Yes

```
int_qns <-
   c( staff_qns_int,
        people_served_qns_int,
        fundraise_donor_qns_int )

COLUMNS <- int_qns

survey_df[ COLUMNS ] <-
   survey_df[ COLUMNS ] %>%
   lapply( recode_x, pattern=c("N/A","-99"), replace=c("Inf","Inf") )

survey_df[ COLUMNS ] <-</pre>
```

```
survey_df[ COLUMNS ] %>%
  lapply( as.numeric )
survey_df[ COLUMNS ] <-</pre>
  survey_df[ COLUMNS ] %>%
  lapply( memisc::as.item, missing.values=Inf )
survey_df[ COLUMNS ] <- purrr::map( COLUMNS, add_q_details, survey_df )</pre>
Example:
Staff_Fulltime_2021 — 'TYPE: integer'
"Number of full time staff"
Storage mode:
double
Measurement:
interval
Missing values:
Inf
Values and labels
Ν
Percent
Μ
(unlab.mss.)
61
8
```

.

8

NA

Μ

4

0

•

6

Min:

0

.

000

Max:

3000

.

000

Mean:

17

.

119

 $\operatorname{Std.Dev.:}$ 

122

.

### 9 Integer Inputs

704

### QUESTION TXT:

STAFF & VOLUNTEERS 6. How many (paid and unpaid) people in your organization will have worke... - 2021 - Full-time paid staff (35 or more hours /week) - (best estimate)

## 10 Numeric Inputs

These questions accept a numeric input from users to denote dollar values. For some variables, additional processing is done to remove commas and "\$" signs.

Description	Recode	Recode	Code as
	Label	Value	Missing?
Dollar Amount	NA	Numeric Value	No
Incomplete	NA	-1	Yes
	NA	NA	Yes
	Dollar Amount	Description Label  Dollar NA  Amount  Incomplete NA	Description Label Value  Dollar NA Numeric Amount Value  Incomplete NA -1

```
numeric_qns <-
   c( majorgift_qn_num,
        reserve_qns_num,
        cares_qns_num,
        finance_revenue_qns_num )

COLUMNS <- numeric_qns

survey_df[ COLUMNS ] <-
        survey_df[ COLUMNS ] %>%
        lapply( keep_numbers )

survey_df[ COLUMNS ] <-
        survey_df[ COLUMNS ] %>%
```

```
lapply( memisc::as.item, missing.values=Inf )
survey_df[ COLUMNS ] <- purrr::map( COLUMNS, add_q_details, survey_df )</pre>
Example:
FndRaise_MajGift_Amt — 'TYPE: numeric'
"donation amount considered a major gift"
Storage mode:
double
Measurement:
interval
Missing values:
Inf
Values and labels
Ν
Percent
Μ
(unlab.mss.)
18
2
6
NA
```

M
25
3
.
6
Min:
0
.
010
Max:
1000000
.
000
Mean:
5935
.
894
Std.Dev.:

44801

714

QUESTION TXT:

95

### 10 Numeric Inputs

8.b. What is the smallest donation amount that your organization would consider to be a major gift? - \$

### 11 Text Inputs

These questions allow the user to enter raw text as answers. All non-text values are converted to NAs.

```
text_qns <-
  c( staff_qns_text,
     finance_chng_qns_text,
     finance_revenue_qns_text,
     fundraise_qns_text,
     leadership_chng_qns_text,
     primary_cncrn_qn_text,
     program_change_qns_txt,
     race_gender_qns_text)
survey_df[ text_qns ] <-</pre>
  survey_df[ text_qns ] %>%
  lapply( recode_x, pattern="-99", replace=NA )
survey_df[ text_qns ] <-</pre>
  survey_df[ text_qns ] %>%
  lapply( memisc::as.item )
survey_df[ text_qns ] <- purrr::map( text_qns, add_q_details, survey_df )</pre>
codebook( survey_df[ text_qns[1] ] )
```

\_\_\_\_\_\_

#### 11 Text Inputs

```
Staff_Other_Text_2021 'TYPE: text'
   "Description of other staff"
   Storage mode: character
   Measurement: nominal
                             "Book keeper"
   Min:
   Max: "we are a part time organization"
   QUESTION TXT:
       STAFF & VOLUNTEERS
                                6. How many (paid and unpaid) people in
       your organization will have worke... - 2021 - Other (please
       specify): - Text
Example:
Staff_Other_Text_2021 — 'TYPE: text'
"Description of other staff"
Storage mode:
character
Measurement:
nominal
Min:
"Book keeper"
Max:
```

"we are a part time organization"

### QUESTION TXT:

STAFF & VOLUNTEERS  $\,$  6. How many (paid and unpaid) people in your organization will have worke... - 2021 - Other (please specify): - Text

### 12 Reconcile Demographic Variables

# 12.1 Adding Race and Gender Answers from Year 1 Survey

Questions about the race and gender of CEOs and Board Chairs are only presented to users if they indicate that a leadership change has occurred in Year 2 of the survey. Hence, we will need to impute in race and gender responses for participants who did not indicate a change in leadership.

#### 12.1.1 Identifying cases for imputation

These respondents indicate that there were no changes to their CEO in year 2.

```
have.changes <-
  ( survey_df$LeadershipChng_HireCEO == 1 |
    survey_df$LeadershipChng_IntrmCEO == 1 )

no_ceo_chng_ein <-
    survey_df %>%
    dplyr::filter( ! have.changes ) %>%
    dplyr::pull("EIN")

no_bchair_chng_ein <-
    survey_df %>%
```

```
dplyr::filter( LeadershipChng_ChngBC != 1 ) %>%
dplyr::pull("EIN")
```

#### 12.1.2 Processing Year 1 Data

In Year 1, the survey questions for race and gender are encoded in a single factor variable instead of the multiple boolean variables in Year 2. We will have to wrangle the data from Year 1 into a format for Year 2.

```
fpath <- "DATA-PREP/01-year-one/02-data-intermediate/"
fname <- "wave-01-data-intermediate.csv"
year1_raw <- readr::read_csv( paste0( fpath, fname ) )</pre>
```

```
# Wrangle Data for Year 1 Responses on CEO race and Gender
year1_CEOchng <- year1_raw %>%
  dplyr::select(EIN, CEOrace, CEOgender) %>%
  dplyr::filter(EIN %in% no_ceo_chng_ein,
                ! CEOrace %in% c(-99, NA),
                ! CEOgender %in% c(-99, NA)) %>%
  dplyr::mutate(
    CEOrace = dplyr::case_match(
      CEOrace,
      1 ~ "AAPI", 2 ~ "Black", 3 ~ "Hisp", 4 ~ "NativeAm", 5 ~ "White", 6 ~
      .default = "Oth"
    ),
    CEOgender = dplyr::case_match(
      CEOgender,
      1 ~ "Man", 2 ~ "Woman", 3 ~ "Trans", 4 ~ "NB", 5 ~ "Oth",
      .default = "Oth"
    ),
  race_check = 1,
  gender_check = 1
```

#### 12.1 Adding Race and Gender Answers from Year 1 Survey

```
) %>%
  tidyr::pivot_wider(
   names_from = CEOrace,
   names_glue = "CEOrace_{CEOrace}",
   values_from = race_check,
    values_fill = 0
  ) %>%
  tidyr::pivot_wider(
   names_from = CEOgender,
   names_glue = "CEOgender_{CEOgender}",
   values_from = gender_check,
   values_fill = 0
  )
# Wrangle Data for Year 1 Responses on Board Chair Race and Gender
year1_BCchng <- year1_raw %>%
  dplyr::select(EIN, BCrace, BCgender) %>%
  dplyr::filter(EIN %in% no_bchair_chng_ein,
                ! BCrace %in% c(-99, NA),
                ! BCgender %in% c(-99, NA)) %>%
  dplyr::mutate(
   BCrace = dplyr::case_match(
      BCrace,
      1 ~ "AAPI", 2 ~ "Black", 3 ~ "Hisp", 4 ~ "NativeAm", 5 ~ "White", 6 ~ "Bi", 7 ~ "Oth",
      .default = "Oth"
    ),
    BCgender = dplyr::case_match(
      BCgender,
      1 ~ "Man", 2 ~ "Woman", 3 ~ "Trans", 4 ~ "NB", 5 ~ "Oth",
      .default = "Oth"
    ),
  race_check = 1,
  gender_check = 1
```

```
tidyr::pivot_wider(
   names_from = BCrace,
   names_glue = "BChairrace_{BCrace}",
   values_from = race_check,
   values_fill = 0
) %>%
tidyr::pivot_wider(
   names_from = BCgender,
   names_glue = "BChairgender_{BCgender}",
   values_from = gender_check,
   values_fill = 0
)
```

### 12.1.3 Create Biracial Categories in Year 2

Since the Year 1 data has an indicator for biracial CEOs and Board Chairs, we will have to create a boolean Biracial indicator variable in the Year 2 data that returns a 1 if a CEO or Board Chair belongs to 2 or more racial groups.

```
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
survey_df[ race_qns ] <-</pre>
  survey_df[ race_qns ] %>%
  lapply( recode_x, pattern, replace )
survey_df[ race_qns ] <-</pre>
  survey_df[ race_qns ] %>%
  lapply( as.numeric )
survey_df <-
  survey_df %>%
  dplyr::rowwise() %>%
  dplyr::mutate(
    CEOrace_Bi = ifelse(dplyr::between(
      sum(dplyr::c_across(tidyselect::all_of(race_ceo_qns_bool)), na.rm = TRUE), 2, 6
    ), 1, 0),
   BChairrace_Bi = ifelse(dplyr::between(
      sum(dplyr::c_across(tidyselect::all_of(race_bchair_qns_bool)), na.rm = TRUE), 2, 6
    ), 1, 0)
  )
```

#### 12.1.4 Merge Year 1 Race and Gender Variables with Year 2

```
race_ceo_qns_bool <- c( race_ceo_qns_bool, "CEOrace_Bi" )
for (race_var in race_ceo_qns_bool){
   survey_df <-
     survey_df %>%
```

```
dplyr::mutate(
      !! race_var := ifelse(
         EIN %in% year1_CEOchng$EIN,
         year1_CEOchng[[race_var]],
        .data[[race_var]] )
    )
}
gender.qs <- grepl( "CEOgender", race_gender_qns_bool )</pre>
gender_ceo_qns_bool <- race_gender_qns_bool[ gender.qs ]</pre>
COLUMNS <- gender_ceo_qns_bool
                    Yes =>> 1 ",
No =>> 0 ")
RULES <- c(
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
survey_df[ COLUMNS ] <-</pre>
 survey_df[ COLUMNS ] %>%
  lapply( recode_x, pattern, replace )
survey_df[ COLUMNS ] <-</pre>
  survey_df[ COLUMNS ] %>%
 lapply( as.numeric )
# lapply( survey_df[ COLUMNS ], table )
for ( gender_var in gender_ceo_qns_bool ){
  survey_df <-
    survey_df %>%
```

```
dplyr::mutate(
      !! gender_var := ifelse(
        EIN %in% year1_CEOchng$EIN & gender_var %in% names( year1_CEOchng ),
        year1_CEOchng[[ gender_var ]],
        .data[[ gender_var ]]
      )
    )
}
race_bchair_qns_bool <- c(race_bchair_qns_bool, "BChairrace_Bi")</pre>
COLUMNS <- race_bchair_qns_bool
RULES <- c(
  " Yes =>> 1 ",
  " No =>> 0 " )
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
survey_df[ COLUMNS ] <-</pre>
  survey_df[ COLUMNS ] %>%
  lapply( recode_x, pattern, replace )
# lapply( survey_df[ COLUMNS ], table )
survey_df[ COLUMNS ] <-</pre>
  survey_df[ COLUMNS ] %>%
```

```
lapply( as.numeric )
for (race_var in race_bchair_qns_bool){
  survey_df <- survey_df %>%
  dplyr::mutate(
    !! race_var := ifelse(
    EIN %in% year1_BCchng$EIN,
    year1_BCchng[[race_var]],
    .data[[race_var]]
    )
  )
}
gender_bchair_qns_bool <-</pre>
 race_gender_qns_bool[ grepl("BChairgender", race_gender_qns_bool) ]
COLUMNS <- gender_bchair_qns_bool
                       Yes =>> 1 ",
No =>> 0 ",
                11
RULES <- c(
                      Female =>> 1 ",
Male =>> 1 "
                 11
                                                 )
rules <- parse_rules( RULES )</pre>
pattern <- rules[[ "pattern" ]]</pre>
replace <- rules[[ "replace" ]]</pre>
survey_df[ COLUMNS ] <-</pre>
  survey_df[ COLUMNS ] %>%
  lapply( recode_x, pattern, replace )
# lapply( survey_df[ COLUMNS ], table )
```

```
survey_df[ COLUMNS ] <-
   survey_df[ COLUMNS ] %>%
   lapply( as.numeric )

for (gender_var in gender_bchair_qns_bool){
   survey_df <- survey_df %>%
   dplyr::mutate(
    !! gender_var := ifelse(
        EIN %in% year1_BCchng$EIN & gender_var %in% names(year1_BCchng),
        year1_BCchng[[gender_var]],
        .data[[gender_var]]
    )
   )
}
```

#### 12.1.5 Recode New Race and Gender Variables

```
create_survey_item <- function(
    survey_data,
    qns,
    recode_vals,
    recode_labs,
    missing_vals ){

survey_data <-
    survey_data %>%
    purrr::modify_at(
        .at = qns,
        .f = memisc::as.item,
        labels = structure(
        .Data = recode_vals,
```

names = recode\_labs ),

```
missing.values = missing_vals )
 return( survey_data )
survey_df <- create_survey_item(</pre>
 survey_df,
 race_ceo_qns_bool,
 recode_vals = c(0, 1, 99),
 recode_labs = c("No", "Yes", "Incomplete"),
 missing_vals = c(99)
survey_df <- create_survey_item(</pre>
 survey_df,
 gender_ceo_qns_bool,
 recode_vals = c(0, 1, 99),
 recode_labs = c("No", "Yes", "Incomplete"),
 missing_vals = c(99)
survey_df <- create_survey_item(</pre>
 survey_df,
 race_bchair_qns_bool,
 recode_vals = c(0, 1, 99),
 recode_labs = c("No", "Yes", "Incomplete"),
 missing_vals = c(99)
)
survey_df <- create_survey_item(</pre>
 survey_df,
```

gender\_bchair\_qns\_bool,

```
recode_vals = c(0, 1, 99),
recode_labs = c("No", "Yes", "Incomplete"),
missing_vals = c(99)
)
```

#### 12.1.6 Create single Race/Gender column

While our race and gender columns are individual binary columns, this is not the case for year 1 and 3 results. Both those years contain single columns for race and gender variables for CEOs and Board Chairs respectively. For easier comparability, we create a new variable aggregating race and gender values for all our individual binary columns.

12.1.6.1 Aggregated Race Variable

Original Value	Degazintion	Recode Label	Recode	Code as
varue	Description	Laber	Value	Missing?
1	Asian/Pacific	AAPI	1	No
	Islander			
1	Black/African	Black	2	No
	American			
1	Latinx/Hispan	ni <b>H</b> isp	3	No
1	Native	NativeAm	4	No
	Ameri-			
	can/American			
	Indian			
1	White	White	5	No
1	Bi/Multi-	Bi	6	No
	racial			

Original Value	Description	Recode Label	Recode Value	Code as Missing?
1	Other (please specify)	Oth	7	No
0	Checkbox Unchecked	NA	Yes	

```
# Create New Race variables
survey_df <- survey_df %>%
  dplyr::mutate(
    CEOrace = dplyr::case_when(
      CEOrace_AAPI == 1 ~ 1,
      CEOrace_Black == 1 ~ 2,
      CEOrace_Hisp == 1 ~ 3,
      CEOrace_NativeAm == 1 ~ 4,
      CEOrace_White == 1 ~ 5,
      CEOrace_Bi == 1 \sim 6,
      CEOrace_Oth == 1 \sim 7,
      .default = NA
    ),
    BChairrace = dplyr::case_when(
      BChairrace_AAPI == 1 ~ 1,
      BChairrace_Black == 1 ~ 2,
      BChairrace_Hisp == 1 ~ 3,
      BChairrace_NativeAm == 1 ~ 4,
      BChairrace_White == 1 ~ 5,
      BChairrace_Bi == 1 ~ 6,
      BChairrace_Oth == 1 ~ 7,
      .default = NA
  ))
```

```
# Create Survey Item
survey_df <- create_survey_item(
   survey_df,
   c("CEOrace", "BChairrace"),
   recode_vals = c(1, 2, 3, 4, 5, 6, 7),
   recode_labs = c("AAPI", "Black", "Hisp", "NativeAm", "White", "Bi", "Oth"),
   missing_vals = c()
)</pre>
```

#### 12.1.6.2 Aggregated Gender Variable

Original Value	Description	Recode Label	Recode Value	Code as Missing?
1	Man	Man	1	No
1	Woman	Woman	2	No
1	Trans	Trans	3	No
1	Gender non-	NB	4	No
	conforming/N	on-		
	Binary			
1	Other	$\operatorname{Oth}$	5	No
	(please			
	specify)			
0	Checkbox	NA	Yes	
	Unchecked			

```
# Create New Race variables
survey_df <- survey_df %>%
dplyr::mutate(
    CEOgender = dplyr::case_when(
        CEOgender_Man == 1 ~ 1,
        CEOgender_Woman == 1 ~ 2,
```

```
CEOgender_Trans == 1 ~ 3,
      CEOgender_NB == 1 ~ 4,
      CEOgender_Oth == 1 ~ 5,
      .default = NA
    ),
    BChairgender = dplyr::case_when(
      BChairgender_Man == 1 ~ 1,
      BChairgender_Woman == 1 ~ 2,
      BChairgender_Trans == 1 ~ 3,
      BChairgender_NB == 1 ~ 4,
      BChairgender_Oth == 1 ~ 5,
      .default = NA
  ))
# Create Survey Item
survey_df <- create_survey_item(</pre>
 survey_df,
  c("CEOgender", "BChairgender"),
 recode_vals = c(1, 2, 3, 4, 5),
 recode_labs = c("Man", "Woman", "Trans", "NB", "Oth"),
  missing_vals = c()
```

#### 12.1.7 Validate Results

We can see that the number of valid responses for race and gender questions concerning the CEO and Board Chair have increased.

```
race_gender_qns <-
c( race_gender_qns_bool,
    "CEOrace", "CEOgender", "BChairrace", "BChairgender" )</pre>
```

# show\_html( codebook( survey\_df[ race\_gender\_qns ] ) ) $CEOrace\_AAPI$ Storage mode: doubleMeasurement: ${\rm nominal}$ Missing values: 99 Values and labels Ν Valid Total 0 'No' 46799 8 67 6

1 'Yes' 1 0 2 0 1 NA ${\bf M}$ 223 32 3  $CEOrace\_Black$ Storage mode: doubleMeasurement: nominal Missing values: 99

Values and labels

N

Valid

Total

0

'No'

462

98

.

7

66

9

1

`Yes"

6

1

.

3

0

9

NA

 ${\bf M}$ 

223 32 3  $CEOrace\_Hisp$ Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No' 464 99 1 67

1 1 'Yes' 4 0 9 0 6 NAΜ 223 32 3  $CEOrace\_NativeAm$ Storage mode: double Measurement:  ${\rm nominal}$ Missing values: 99

Values and labels
N
Valid
Total
0
'No'
464
99
1
67
1
1
'Yes'
4
0
9
0
6

NA

M
223
32
3
CEOrace_White
Storage mode:
double
Measurement:
nominal
Missing values:
99
Values and labels
N
Valid
Total
0
'No'
12
2
•
6
1

•

7

1

'Yes'

456

97

.

4

66

0

NA

M

223

32

3

 $CEOrace\_Oth$ 

Storage mode:

double

 ${\bf Measurement:}$ 

nominal

Missing values:

Values and labels N Valid Total  $`{\rm No}"$ 'Yes' 

NA
M
223
32
3
CEOgender_Man
Storage mode:
double
Measurement:
nominal
Missing values:
99
Values and labels
N
Valid
Total
0
'No'
454
97
0

65 7 1 'Yes' 14 3 0 2 0 NA ${\bf M}$ 223 32 3 CEOgender\_Woman Storage mode: doubleMeasurement:

 ${\rm nominal}$ 

Missing values:
99
Values and labels
N
Valid
Total
0
'No'
14
3
0
2
0
1
'Yes'
454
97
0
65

7
NA
M
223
32
3
CEOgender_Trans
Storage mode:
double
Measurement:
nominal
Missing values:
99
Values and labels
N
Valid
Total
0
'No'
48
98

0

6

.

9

1

'Yes'

1

2

•

0

0

1

NA

 ${\rm M}$ 

642

92

9

 ${\tt CEOgender\_NB}$ 

Storage mode:

double

 ${\bf Measurement:}$ 

nominal	
Missing values:	
99	
Values and labels	
N	
Valid	
Total	
0	
'No'	
467	
99	
,	
8	
67	
,	
6	
1	
'Yes'	
1	
0	
2	
0	

NA

NA

M

223

32

.

3

CEOgender\_Oth

Storage mode:
double

Measurement:
nominal

Missing values:
99

Values and labels

N

Τ.

Valid

Total

0

'No'

468

100

130

.

0

67

.

7

1

'Yes'

0

0

.

0

0

0

NA

Μ

223

32

3

 $BChairrace\_AAPI$ 

Storage mode:

 ${\rm double}$ 

Measurement:
nominal
Missing values:
99
Values and labels
N
Valid
Total
0
'No'
491
99
4
71
1
1
'Yes'
3
0
6

. 4 NA M 197 28 . 5 BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No' 472	0
NA M 197 28 . 5 BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	
M 197 28 . 5 BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	4
197 28 . 5 BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	NA
28 . 5 BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	M
5 BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	197
BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	28
BChairrace_Black Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	
Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	5
double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	BChairrace_Black
Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No'	Storage mode:
nominal Missing values: 99 Values and labels N Valid Total 0 'No'	double
Missing values: 99 Values and labels N Valid Total 0 'No'	Measurement:
99 Values and labels N Valid Total 0 'No'	nominal
Values and labels  N  Valid  Total  0  'No'	Missing values:
N Valid Total 0 'No'	99
Valid Total 0 'No'	Values and labels
Total 0 'No'	N
0 'No'	Valid
'No'	Total
	0
472	'No'
	472

.

.

 $`{\rm Yes}"$ 

NA

 ${\rm M}$ 

 $BChairrace\_Hisp$ 

Storage mode:

double
Measurement:
nominal
Missing values:
99
Values and labels
N
Valid
Total
0
'No'
477
96
6
69
0
1
Yes'
17
3

## 12 Reconcile Demographic Variables 4 2 5 NAΜ 197 28 5 $BChairrace\_NativeAm$ Storage mode: double Measurement: nominal Missing values: 99 Values and labels N

Valid

Total

0

'No'

490 99

.

2

70

.

9

1

`Yes"

4

0

•

8

0

•

6

NA

 ${\bf M}$ 

197

28

.

5

 $BChairrace\_White$ 

Storage mode:
double
Measurement:
nominal
Missing values:
99
Values and labels
N
Valid
Total
0
'No'
34
6
9
4
9
1
'Yes'
460
93

1 66 6 NAΜ 19728 5  $BChairrace\_Oth$ Storage mode: doubleMeasurement:nominal Missing values: 99 Values and labels N Valid

Total

0

'No'

.

.

 $`{\rm Yes}"$ 

NA

Μ

BChairgender_Man
Storage mode:
double
Measurement:
nominal
Missing values:
99
Values and labels
N
Valid
Total
0
'No'
410
83
0
59
3
1
'Yes'
84

17 0 12 2 NAΜ 197 28 5 BChairgender\_Woman Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total

'No'

.

•

 $`{\rm Yes}"$ 

NA

Μ

.

5  $BChairgender\_Trans$ Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No' 164 100 0 23 7 1 'Yes'

0 00 0 0 NAΜ 52776 3  $BChairgender\_NB$ Storage mode:  ${\rm double}$ Measurement: nominalMissing values: 99 Values and labels N Valid

Total

'No'

.

•

'Yes'

.

NA

 ${\bf M}$ 

5  $BChairgender\_Oth$ Storage mode: double Measurement: nominal Missing values: 99 Values and labels N Valid Total 0 'No' 49299 6 712 1

'Yes'
2
0
4
0
3
NA
M
197
28
5
CEOrace
Storage mode:
double
Measurement:
nominal
Values and labels
N
Valid
Total

`Native Am'

'White'

 ${\rm `Bi'}$ 

.

.

'Oth'

•

NA

 ${\bf M}$ 

.

CEOgender
Storage mode:
double
Measurement:
nominal
Values and labels
N
Valid
Total
1
'Man'
14
3
0
2
0
2
'Woman'
453
96

.

`Trans'

•

.

 ${\rm `NB'}$ 

•

.

'Oth'
0
0
0
0
0
NA
M
223
32
3
BChairrace
Storage mode:
double
Measurement:
nominal
Values and labels
N
Valid
Total

.

`Native Am'

`White'

.

 ${\rm `Bi'}$ 

.

•

'Oth'

.

NA

 ${\bf M}$ 

.

BChairgender
Storage mode:
double
Measurement:
nominal
Values and labels
N
Valid
Total
1
'Man'
84
17
0
12
2
2
'Woman'
408
82

.

`Trans'

.

•

'NB'

 ${\rm `Oth'}$ 

2

0

.

4

0

.

3

NA

 ${\bf M}$ 

197

28

.

# 13 Summary Statistics

- 15 questions about CHANGES TO PROGRAMS AND SER-VICES
- 4 questions about the NUMBER OF PEOPLE EACH ORGA-NIZATION SERVES
- 1 question about OVERALL PROGRAM DEMAND
- 27 questions about STAFF NUMBERS
- 2 questions about DONOR AND VOLUNTEER IMPORTANCE
- 11 questions about CHANGES TO LEADERSHIP
- 26 questions about THE RACE AND GENDER OF CEOS AND BOARD CHAIRS
- 8 questions about CHANGES TO ORGANIZATIONAL FINANCES
- 2 questions about CARES FUNDING
- 2 questions about FINANCIAL RESERVES
- 9 questions about REVENUE SOURCES
- 26 questions about FUNDRAISING SOURCES
- 2 questions about DONOR TYPES IN FUNDRAISING
- 7 questions about FUNDRAISING YIELDS
- 11 questions about FUNDRAISING STRATEGY CHANGES
- 1 questions about MAJOR GIFT AMOUNTS
- 13 questions about EXTERNAL AFFAIRS
- 1 questions about FUTURE CONCERNS

# 14 CHANGES TO PROGRAMS AND SERVICES

PrgSrvc\_IncrNum — 'TYPE: boolean' "Indicates an increase in number of programs or services" Storage mode: character Measurement: nominal Missing values: 97, 98, 99 Values and labels N Valid Total 0 'No' 268 40

#### 14 CHANGES TO PROGRAMS AND SERVICES

'Yes'

Μ

'Unsure'

Μ

'Not Applicable' 0 9 99 Μ 'N/A' 11 1 6 NA  ${\bf M}$ 5 0 QUESTION TXT:

#### 14 CHANGES TO PROGRAMS AND SERVICES

3.	In the last year (between January 2021-December 2021), did your
	organization make any of the following changes to your Programs,
	as compared to 2020? - Increased the number of programs or services $% \left( 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$
	PrgSrvc_DcrsNum — 'TYPE: boolean'
	"indicates a decrease in number of programs or services"
	Storage mode:
	character
	Measurement:
	nominal
	Missing values:
	97, 98, 99
	Values and labels
	N
	Valid
	Total
	0
	'No'
	547
	83
	4
	79
	2
	1
	'Yes'
	109
	16
	6
	15
	8
	97

```
Μ
'Unsure'
0
4
98
Μ
'Not Applicable'
1
9
99
Μ
'N/A'
14
2
0
NA
Μ
5
0
QUESTION TXT:
```

3. In the last year (between January 2021-December 2021), did your organization make any of the following changes to your Programs, as compared to 2020? - Dersuced the number of programs or services

 $PrgSrvc\_Suspend$  — 'TYPE: boolean'

"indicates the suspension of programs or services"

#### 14 CHANGES TO PROGRAMS AND SERVICES

```
Storage mode:
character
Measurement:
nominal
Missing values:
97, 98, 99
Values and labels
Ν
Valid
Total
0
'No'
451
68
2
65
3
1
'Yes'
210
31
8
30
4
97
Μ
'Unsure'
1
0
```

```
1
98
Μ
'Not Applicable'
10
1
4
99
{\bf M}
'N/A'
14
2
0
NA
Μ
5
0
7
QUESTION TXT:
```

3. In the last year (between January 2021-December 2021), did your organization make any of the following changes to your Programs, as compared to 2020? - Suspended or paused services

PrgSrvc\_IncrSrvc — 'TYPE: boolean'

"Indicates an increase in number of people served"

Storage mode:

character

Measurement:

nominal

Missing values:

#### 14 CHANGES TO PROGRAMS AND SERVICES

```
97, 98, 99
Values and labels
Ν
Valid
Total
0
'No'
227
35
2
32
9
1
'Yes'
418
64
8
60
5
97
M
'Unsure'
19
2
7
98
{\rm M}
'Not Applicable'
13
```

```
1
.
9
99
M
'N/A'
9
1
.
3
NA
M
5
0
.
7
QUESTION TXT:
```

3. In the last year (between January 2021-December 2021), did your organization make any of the following changes to your Programs, as compared to 2020? -Increased the number of people served PrgSrvc\_DcrsSrvc — 'TYPE: boolean' "indicates a decrease in number of people served" Storage mode: character Measurement: nominal Missing values: 97, 98, 99 Values and labels Ν Valid Total

#### 14 CHANGES TO PROGRAMS AND SERVICES

```
0
'No'
493
78
4
71
3
1
'Yes'
136
21
6
19
7
97
Μ
'Unsure'
21
3
0
98
Μ
'Not Applicable'
20
2
9
99
{\bf M}
```