Simple Tables Demo Doc

Contents

1	Data	2
2	wrap	2
3	Simple table	3
4	Annotate	4
5	Notes in minipage	5
6	Align	6
7	Units	7
8	Expand header rows	8
9	Math	9
10	hline from column	10
11	hline anywhere	11
12	Remove duplicate values	12
13	Add styling to data frame	13
14	Panel	14
15	Colspan	15
16	Colspan - multiple	16
17	Colspan - from cols	17
18	Handle wide columns 18.1 descr is taking over the table	18 18 18
19	Identify a summary row	19
20	Save the table to file	20
21	Long table	21
22	Fontsize	23
23	Row space	24
24	Col space	25

1 Data

Mostly working with this data; but some others come in later to illustrate certain features.

```
library(pmtables)
library(yspec)
spec <- ys_help$spec()</pre>
pmdata <- readRDS("datasets/pmdata.RDS")</pre>
head(pmdata)
## # A tibble: 6 x 9
##
    STUDYf
                DOSEf FORMf WT
                                      CRCL AGE
                                                  N
                                                         ALB
                                                               SCR
     <chr>
                 <chr> <chr> <chr> <chr> <chr> <chr> <chr> <chr> <chr> <chr> <chr> <chr>
##
## 1 12-DEMO-001 100 mg tablet 71.4 104
                                            33.7 80
                                                        4.20 1.06
## 2 12-DEMO-001 150 mg capsule 89.4 122
                                            24.4 16
                                                        4.63 1.12
## 3 12-DEMO-001 150 mg tablet 81.7 104
                                            34.4 48
                                                        3.83 0.910
## 4 12-DEMO-001 150 mg troche 94.0 93.2 27.4 16
                                                        4.94 1.25
## 5 12-DEMO-001 200 mg tablet 67.9 100
                                            27.5 64
                                                        4.25 1.10
## 6 12-DEMO-001 200 mg troche 76.6 99.2 22.8 16
                                                        4.54 1.15
data <- select(pmdata, STUDY = STUDYf, DOSE = DOSEf, WT, AGE, CRCL, ALB, SCR)
```

2 wrap

There is a wrap function in this document. Don't worry about that; it just puts the output into a table environment and sends the output to get rendered in markdown.

3 Simple table

- A data frame is wrapped in tabular environmentThe table is created with threeparttable

data %>% stable(col_bold=TRUE) %>% pt_wrap(stdout())

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

4 Annotate

- Arguments to identify the name of the generating R script and the output file name
- The output file name is retained as an attribute to be used later when saving the table data
- Arbitrary notes are also allowed, provided as a character vector; item in the vector is placed on its own line

```
stable(
  data,
  r_file = "foo.R",
  output_file = "foo.tex",
  notes = c("Data were analyzed in quadruplicate.", "The results are very clear."),
) %>% pt_wrap(stdout())
```

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

Data were analyzed in quadruplicate.

The results are very clear.

Source code: foo.R Source file: foo.tex

5 Notes in minipage

- By default, notes are put in the 3rd part of threeparttable
- Alternatively, we can put them in a minipage just below the table
- The width of the minipage needs to be set by the user

```
stable(
  data,
  note_config = noteconf(type = "minipage", width = 0.65),
  notes = c("Data were analyzed in quadruplicate.", "The results are very clear."),
) %>% pt_wrap(stdout())
```

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

Data were analyzed in quadruplicate.

The results are very clear.

6 Align

- Columns can be aligned center, left or right
- Columns can be aligned with a fixed with and aligned left, center or right
- Helper functions are provided as cols_center(), cols_left(), cols_right()
- The syntax is to state the default / base alignment for all columns and then pass exceptions to that default setting
- Center everything except for
 - STUDY (left)
 - DOSE and SCR (right)

```
data %>%
  stable(align = cols_center(STUDY = '1', .r = "DOSE,SCR")) %>%
  pt_wrap(stdout())
```

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

7 Units

- Automatically put units under the column name
- Units are supplied as a named list, where names correspond with the column name prior to renaming
- The list can contain a subset of columns and can also contain names that are not in the table (there is no warning or error for the latter)

```
units <- ys_get_unit(spec, parens = TRUE)
stable(
  data,
  units = units,
) %>% pt_wrap(stdout())
```

STUDY	DOSE	WT (kg)	AGE (years)	CRCL (ml/min)	ALB (g/dL)	SCR (mg/dL)
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

8 Expand header rows

- Multiline table header
- Unlimited number
- Use . . . to break
- Units go on the bottom row when they are supplied
- Items are always pushed to the bottom

```
stable(
  data,
  col_rename = vars("Study...Number" = STUDY, "Serum...Albumin" = ALB),
  units = units
) %>% pt_wrap(stdout())
```

					Serum	
Study		WT	AGE	CRCL	Albumin	SCR
Number	DOSE	(kg)	(years)	(ml/min)	(g/dL)	(mg/dL)
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

9 Math

- Columns with at least two \$ are "math" and will not be sanitized
- Otherwise the are functions to "prime" the data frame
 - The default is to convert every column to character
 - Then walk the columns, look for non-math columns and sanitize them

```
ptab <- readRDS("datasets/ptab.RDS")</pre>
ptab
## # A tibble: 4 x 6
##
                                             Symbol
                                                                                    SE
     .type
                        Parameter
                                                       Math
                                                                       Estimate
##
     <chr>>
                         <chr>
                                             <chr>
                                                       <chr>
                                                                           <dbl> <dbl>
                                             CL (L/h~ "\\exp(\\thet~
## 1 Fixed-effects
                         Clearance
                                                                           1.22 0.4
## 2 Fixed-effects
                         Volume of distribu~ V2 (L)
                                                       "$\leq(\t \cdot )
                                                                           5.87 0.89
## 3 Fixed-effects
                        Absorption rate co~ KA (1/h~ "\ \\theta_3$"
                                                                           1.23 0.1
## 4 Unexplained varia~ Additive_error
                                             RUV
                                                       "$\\sigma_1$"
                                                                           0.02 0.01
stable(
  ptab,
  align = cols_center(Parameter = col_ragged(3), .1 = "Symbol"),
  panel = ".type"
  ) %>% pt_wrap(stdout())
```

Parameter	Symbol	Math	Estimate	SE			
Fixed-effects							
Clearance	CL (L/hr)	$\exp(\theta_1)$	1.22	0.4			
Volume of distribution	V2 (L)	$\exp(\theta_2)$	5.87	0.89			
Absorption rate constant	KA (1/hr)	$ heta_3$	1.23	0.1			
Unexplained variability							
Additive_error	RUV	σ_1	0.02	0.01			

10 hline from column

• Use the column to determine where the hline should go

```
stable(
  data,
  hline_from = "STUDY",
) %>% pt_wrap(stdout())
```

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

11 hline anywhere

• Give row numbers for hline as logical or integer vector

```
stable(
  data,
  hline_at = c(3,nrow(data))-1,
) %>% pt_wrap(stdout())
```

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

12 Remove duplicate values

- Discard repeating values in a column
- Also clear_grouped_reps which recursively groups by the column names supplied and clears the most distant column name in the groups

```
stable(
  data,
  clear_reps = "STUDY",
) %>% pt_wrap(stdout())
```

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
	150 mg	89.4	24.4	122	4.63	1.12
	150 mg	81.7	34.4	104	3.83	0.910
	150 mg	94.0	27.4	93.2	4.94	1.25
	200 mg	67.9	27.5	100	4.25	1.10
	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
	100 mg	77.6	29.9	106	4.31	0.981
	50 mg	74.1	37.1	112	4.44	0.900
	50 mg	71.2	34.1	106	4.63	0.868
	75 mg	72.4	38.2	105	3.89	0.900
	75 mg	71.6	34.2	98.9	4.49	0.991
	75 mg	73.6	49.2	103	4.52	0.930

13 Add styling to data frame

- tex_bold will make table cells bold when they match pattern
- \bullet tex_it will make table cells italics when they match pattern
- styling is only added when there is at least one character
- input must be string
- combine this with clear_rep and hline_from to partition the table

```
tmp <- ptdata() %>% rename(STUDY = STUDYf, SEX = SEXf)

tmp <- mutate(tmp, STUDY = tex_bold(as.character(STUDY)))

stable(
   tmp,
   clear_reps = "STUDY",
   hline_from = "STUDY",
) %>% pt_wrap(stdout())
```

STUDY	SEX	WT	SCR	ALB	N
12-DEMO-001	male	76.3	1.09	4.33	10
	female	70.0	1.01	4.25	20
12-DEMO-002	male	71.9	1.01	4.57	18
	female	72.6	0.949	4.42	32
11-DEMO-005	male	69.2	2.51	4.46	29
	female	67.9	2.53	4.26	11
13-DEMO-001	male	71.1	0.922	3.68	23
	female	67.0	0.988	3.45	17

14 Panel

- Divide the table using column contents
- The panel column data is split in non-repeating chunks
- An error is generated if there are multiple panels with the same name; this can be overridden
- A prefix can be supplied that gets pasted on the front of the column title; the prefix can also come from the name of the supplied panel panel ID (e.g. c(prefix_text = panel_name))

```
stable(
  data,
  panel = as.panel("STUDY", prefix = "Study number: "),
) %>% pt_wrap(stdout())
```

DOSE	WT	AGE	CRCL	ALB	SCR					
Study number: 12-DEMO-001										
100 mg	71.4	33.7	104	4.20	1.06					
150 mg	89.4	24.4	122	4.63	1.12					
150 mg	81.7	34.4	104	3.83	0.910					
150 mg	94.0	27.4	93.2	4.94	1.25					
200 mg	67.9	27.5	100	4.25	1.10					
200 mg	76.6	22.8	99.2	4.54	1.15					
Study no	ımber	: 12-D	EMO-00	2						
100 mg	61.3	38.3	113	4.04	1.28					
100 mg	77.6	29.9	106	4.31	0.981					
50 mg	74.1	37.1	112	4.44	0.900					
50 mg	71.2	34.1	106	4.63	0.868					
75 mg	72.4	38.2	105	3.89	0.900					
75 mg	71.6	34.2	98.9	4.49	0.991					
75 mg	73.6	49.2	103	4.52	0.930					

15 Colspan

- Group columns with a spaning line and a title The span goes above the highest row in the column header box

```
stable(
  data,
span = colgroup("In final model", WT:CRCL),
) %>% pt_wrap(stdout())
```

	In final model							
STUDY	DOSE	WT	AGE	CRCL	ALB	SCR		
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06		
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12		
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910		
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25		
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10		
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15		
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28		
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981		
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900		
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868		
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900		
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991		
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930		

16 Colspan - multiple

- Multiple groupings
- Multiple levels

```
stable(
  data,
  span = list(
    colgroup("Meh", DOSE:WT),
    colgroup("Hrm", AGE:CRCL),
    colgroup("Huh", ALB:SCR),
    colgroup("Expert opinion", CRCL:SCR, level = 2)
)
) %>% pt_wrap(stdout())
```

	Exp				ert opi	nion
	Mel	Meh		Hrm		uh
STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

17 Colspan - from cols

- We have some columns of the form tag.name
- These are split on the sep argument; the tag (common across columns in the group) forms the spanner title
- The column names are formed by splitting tag. off of tag.name

```
dotdata <- readRDS("datasets/with-dots.RDS")</pre>
head(dotdata, n=2)
## # A tibble: 2 x 7
                 Normal.WT Normal.CRCL Normal.ALB ESRD.WT ESRD.CRCL ESRD.ALB
##
     STUDY
##
     <chr>
                 <chr>
                            <chr>
                                        <chr>
                                                   <chr>
                                                            <chr>
                                                                      <chr>
## 1 12-DEMO-001 71.4
                           104
                                        4.20
                                                   78.5
                                                            26.0
                                                                      2.10
## 2 12-DEMO-001 81.7
                           104
                                        3.83
                                                   89.9
                                                            26.1
                                                                      1.92
stable(
  dotdata,
  span_split = colsplit(sep = '.'),
) %>% pt_wrap(stdout())
```

		Normal			ESRD	
STUDY	WT	CRCL	ALB	WT	CRCL	ALB
12-DEMO-001	71.4	104	4.20	78.5	26.0	2.10
12-DEMO-001	81.7	104	3.83	89.9	26.1	1.92
12-DEMO-001	89.4	122	4.63	98.4	30.6	2.32
12-DEMO-001	94.0	93.2	4.94	103	23.3	2.47
12-DEMO-001	67.9	100	4.25	74.7	25.1	2.13
12-DEMO-001	76.6	99.2	4.54	84.2	24.8	2.27
12-DEMO-002	77.6	106	4.31	85.4	26.4	2.16
12-DEMO-002	61.3	113	4.04	67.4	28.2	2.02
12-DEMO-002	71.2	106	4.63	78.3	26.4	2.32
12-DEMO-002	74.1	112	4.44	81.5	28.0	2.22
12-DEMO-002	71.6	98.9	4.49	78.8	24.7	2.25
12-DEMO-002	72.4	105	3.89	79.6	26.3	1.94
12-DEMO-002	73.6	103	4.52	81.0	25.8	2.26

18 Handle wide columns

• This shows using col_ragged() alignment to fix the width of a column that has a lot of text in it

18.1 descr is taking over the table

```
ptable <- readRDS("datasets/ptable.RDS")
stable(ptable) %>% pt_wrap(stdout())
```

symbol	descr	estimate	standard.error
CL (L)	Metabolic clearance in adults who graduated high school before 1973 and live in Muncie.	100	200

18.2 Limit descr to 5 cm

```
stable(
  ptable,
  align = cols_center(descr = col_ragged(5))
) %>% pt_wrap(stdout())
```

symbol	descr	estimate	standard.error	rse
CL (L)	Metabolic clearance in adults who graduated high school before 1973 and live in Muncie.	100	200	2

19 Identify a summary row

- We can point to one or more rows and style it up as a "summary row"
- The summary row can be styled
 - with a horizontal line above
 - with bold text in a designated column
 - with alternate text in a designated column
- · Multiple summary rows can be specified in a list

```
df.total <- readRDS(file = "datasets/with-total.RDS")</pre>
df.total
## # A tibble: 3 x 6
##
    STUDY
                      AGE
                            CRCL ALB
                                        SCR
##
     <chr>
                <chr> <chr> <chr> <chr> <chr> <chr>
## 1 12-DEMO-001 80.2 28.4 104 4.40 1.10
## 2 12-DEMO-002 71.7 37.3 106 4.33 0.979
## 3 all
           75.9 32.8 105 4.37 1.04
stable(
 df.total,
 sumrows = sumrow(
   df.total$STUDY == "all",
   label = "All Studies",
   bold = TRUE
 )
) %>% pt_wrap(stdout())
```

STUDY	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	80.2	28.4	104	4.40	1.10
12-DEMO-002	71.7	37.3	106	4.33	0.979
All Studies	75.9	32.8	105	4.37	1.04

20 Save the table to file

- There is a output file attribute on the text that is returned
- When the stable output is passed to stable_save(), the attribute is used as the output file name

```
tab <- stable(data, output_file = "foo.tex")
str(tab)

## 'stable' chr [1:26] "{\\def\\arraystretch{1.4}\\tabcolsep=5pt" ...
## - attr(*, "stable_file")= chr "foo.tex"

This can be used to save
stable_save(tab)

file.exists("foo.tex")

## [1] TRUE</pre>
```

21 Long table

- Long table is based on a call to stable
- The table header, tabular environemnt and table notes are reused

```
long <- ptdata()
long <- map_dfr(1:5, ~ long) %>% arrange(STUDYf,SEXf)

long %>%
    stable_long(
    panel = "STUDYf", col_bold = TRUE,
    units = ys_get_unit(spec, parens = TRUE),
    notes = "The results look great!",
    col_rename = c("Sex" = "SEXf", "Study" = "STUDYf"),
    r_file = "foo.R", output_file = "../deliv/table/output.tex",
    note_config = noteconf(type = "minipage", width = 0.5, table_skip = 0.2)
) %>% as.character() %>% writeLines
```

Table 1:

Sex	WT (kg)	SCR (mg/dL)	ALB (g/dL)	N
12-DEM	O-001		_	
male	76.3	1.09	4.33	10
male	76.3	1.09	4.33	10
male	76.3	1.09	4.33	10
male	76.3	1.09	4.33	10
male	76.3	1.09	4.33	10
female	70.0	1.01	4.25	20
female	70.0	1.01	4.25	20
female	70.0	1.01	4.25	20
female	70.0	1.01	4.25	20
female	70.0	1.01	4.25	20
12-DEM	O-002			
male	71.9	1.01	4.57	18
male	71.9	1.01	4.57	18
male	71.9	1.01	4.57	18
male	71.9	1.01	4.57	18
male	71.9	1.01	4.57	18
female	72.6	0.949	4.42	32
female	72.6	0.949	4.42	32
female	72.6	0.949	4.42	32
female	72.6	0.949	4.42	32
female	72.6	0.949	4.42	32
11-DEM	O-005			
male	69.2	2.51	4.46	29

continued on next page

	WT	SCR	ALB	
Sex	(kg)	(mg/dL)	(g/dL)	N
male	69.2	2.51	4.46	29
male	69.2	2.51	4.46	29
male	69.2	2.51	4.46	29
male	69.2	2.51	4.46	29
female	67.9	2.53	4.26	11
female	67.9	2.53	4.26	11
female	67.9	2.53	4.26	11
female	67.9	2.53	4.26	11
female	67.9	2.53	4.26	11
13-DEM	O-001			
male	71.1	0.922	3.68	23
male	71.1	0.922	3.68	23
male	71.1	0.922	3.68	23
male	71.1	0.922	3.68	23
male	71.1	0.922	3.68	23
female	67.0	0.988	3.45	17
female	67.0	0.988	3.45	17
female	67.0	0.988	3.45	17
female	67.0	0.988	3.45	17
female	67.0	0.988	3.45	17

The results look great! Source code: foo.R

}

Source file: ../deliv/table/output.tex

22

22 Fontsize

- Tables should be rendered with \\normalsize for the most part
- The font size can get bumped up or down in special circumstances

```
data %>% stable(sizes = tab_size(font = "tiny")) %>% pt_wrap(stdout())
```

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930

23 Row space

- The default rowspacing is 1.4; this is a multiplication factor
- The user can bring this up or down so that row spacing of 1 is no extension or compression of row padding

data %>% slice(1:3) %>% stable() %>% pt_wrap(stdout())

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910

data %>% slice(1:3) %>% stable(sizes = tab_size(row = 0.9)) %>% pt_wrap(stdout())

STUDY	DOSE				ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910

data %>% slice(1:3) %>% stable(sizes = tab_size(row = 2)) %>% pt_wrap(stdout())

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910

24 Col space

• The default is 5

data %>% stable(sizes = tab_size(col = 20)) %>% pt_wrap(stdout())

STUDY	DOSE	WT	AGE	CRCL	ALB	SCR
12-DEMO-001	100 mg	71.4	33.7	104	4.20	1.06
12-DEMO-001	150 mg	89.4	24.4	122	4.63	1.12
12-DEMO-001	150 mg	81.7	34.4	104	3.83	0.910
12-DEMO-001	150 mg	94.0	27.4	93.2	4.94	1.25
12-DEMO-001	200 mg	67.9	27.5	100	4.25	1.10
12-DEMO-001	200 mg	76.6	22.8	99.2	4.54	1.15
12-DEMO-002	100 mg	61.3	38.3	113	4.04	1.28
12-DEMO-002	100 mg	77.6	29.9	106	4.31	0.981
12-DEMO-002	50 mg	74.1	37.1	112	4.44	0.900
12-DEMO-002	50 mg	71.2	34.1	106	4.63	0.868
12-DEMO-002	75 mg	72.4	38.2	105	3.89	0.900
12-DEMO-002	75 mg	71.6	34.2	98.9	4.49	0.991
12-DEMO-002	75 mg	73.6	49.2	103	4.52	0.930