Simple Tables Demo Doc

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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>
data <- pmt_summarized
head(data)
## # A tibble: 6 x 9
    STUDY
                       FORM
                               N
                                     WT
                                           CRCL AGE
                                                       ALB
                                                             SCR
##
    <chr>
                <chr> <chr>
                               <chr> <chr> <chr> <chr> <chr> <chr> <chr>
## 1 12-DEMO-001 100 mg tablet 80
                                     71.4 104
                                                 33.7 4.20 1.06
## 2 12-DEMO-001 150 mg capsule 16
                                     89.4 122
                                                 24.4 4.63 1.12
## 3 12-DEMO-001 150 mg tablet 48
                                     81.7 104
                                                 34.4 3.83 0.910
## 4 12-DEMO-001 150 mg troche 16
                                     94.0 93.2 27.4 4.94 1.25
## 5 12-DEMO-001 200 mg tablet 64
                                     67.9 100
                                                 27.5 4.25 1.10
## 6 12-DEMO-001 200 mg troche 16
                                     76.6 99.2 22.8 4.54 1.15
```

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(cols_bold=TRUE) %>% pt_wrap(stdout())

STUDY	DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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	FORM	N	WT (kg)	CRCL (ml/min)	AGE (years)	ALB (g/dL)	SCR (mg/dL)
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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,
  cols_rename = vars("Study...Number" = STUDY, "Serum...Albumin" = ALB),
  units = units
) %>% pt_wrap(stdout())
```

Study Number	DOSE	FORM	N	WT (kg)	CRCL (ml/min)	AGE (years)	Serum Albumin (g/dL)	SCR (mg/dL)
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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 varia	bility			
Additive_error	RUV	σ_1	0.02	0.01

10 hline from column

 $\bullet\,$ Use the column to determine where the hline should go

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

STUDY	DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
	75 mg	troche	36	73.6	103	49.2	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()

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

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

STUDY	DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg tablet		80	71.4	104	33.7	4.20	1.06
	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
	75 mg	troche	36	73.6	103	49.2	4.52	0.930

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	FORM	N	WT	CRCL	AGE	ALB	SCR
Study n	umber: 12	-DEM	O-001				
100 mg	tablet	80	71.4	104	33.7	4.20	1.06
150 mg	capsule	16	89.4	122	24.4	4.63	1.12
150 mg	tablet	48	81.7	104	34.4	3.83	0.910
150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
200 mg	tablet	64	67.9	100	27.5	4.25	1.10
200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
Study no	umber: 12	-DEM	O-002	}			
100 mg	capsule	36	61.3	113	38.3	4.04	1.28
100 mg	tablet	324	77.6	106	29.9	4.31	0.981
50 mg	capsule	36	74.1	112	37.1	4.44	0.900
50 mg	tablet	324	71.2	106	34.1	4.63	0.868
75 mg	capsule	36	72.4	105	38.2	3.89	0.900
75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
75 mg	troche	36	73.6	103	49.2	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 fin	al model			
STUDY	DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
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12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
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12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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())
```

		Expert opinion						
		Meh			Hr	m	Huh	
STUDY	DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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(1:2, ~ long) %>% arrange(STUDY,DOSE,FORM)

long %>%
    stable_long(
    panel = "STUDY", cols_bold = TRUE,
    units = ys_get_unit(spec, parens = TRUE),
    notes = "The results look great!",
    clear_reps = "DOSE",
    cols_rename = c(Formulation = "FORM"),
    r_file = "foo.R", output_file = ".../deliv/table/output.tex",
    note_config = noteconf(type = "minipage", width = 0.8,table_skip = 0.2)
) %>% as.character() %>% writeLines
```

Formulation	N	WT (kg)	CRCL (ml/min)	AGE (years)	ALB (g/dL)	SCR (mg/dL)
O-001						
tablet	80	71.4	104	33.7	4.20	1.06
tablet	80	71.4	104	33.7	4.20	1.06
capsule	16	89.4	122	24.4	4.63	1.12
capsule	16	89.4	122	24.4	4.63	1.12
tablet	48	81.7	104	34.4	3.83	0.910
tablet	48	81.7	104	34.4	3.83	0.910
troche	16	94.0	93.2	27.4	4.94	1.25
troche	16	94.0	93.2	27.4	4.94	1.25
tablet	64	67.9	100	27.5	4.25	1.10
tablet	64	67.9	100	27.5	4.25	1.10
troche	16	76.6	99.2	22.8	4.54	1.15
troche	16	76.6	99.2	22.8	4.54	1.15
0-002						
capsule	36	61.3	113	38.3	4.04	1.28
capsule	36	61.3	113	38.3	4.04	1.28
tablet	324	77.6	106	29.9	4.31	0.981
tablet	324	77.6	106	29.9	4.31	0.981
capsule	36	74.1	112	37.1	4.44	0.900
capsule	36	74.1	112	37.1	4.44	0.900
tablet	324	71.2	106	34.1	4.63	0.868
tablet	324	71.2	106	34.1	4.63	0.868
capsule	36	72.4	105	38.2	3.89	0.900
capsule	36	72.4	105	38.2	3.89	0.900
tablet	288	71.6	98.9	34.2	4.49	0.991
	tablet tablet capsule capsule tablet tablet tablet troche troche tablet troche troche Co-002 capsule capsule tablet tablet tablet tablet tablet troche	tablet 80 tablet 80 capsule 16 capsule 16 tablet 48 tablet 48 tablet 48 troche 16 troche 16 tablet 64 troche 16 troche 16 troche 36 tablet 324 tablet 324 tablet 324 tablet 324 tablet 324 tablet 324 capsule 36	Formulation N (kg) O-001 80 71.4 tablet 80 71.4 tablet 89.4 89.4 capsule 16 89.4 tablet 48 81.7 tablet 48 81.7 troche 16 94.0 troche 16 94.0 tablet 64 67.9 troche 16 76.6 troche 16 76.6 troche 36 61.3 capsule 36 61.3 tablet 324 77.6 tablet 324 77.6 capsule 36 74.1 tablet 324 71.2 tablet 324 71.2 tablet 324 71.2 capsule 36 72.4 capsule 36 72.4 capsule 36 72.4	Formulation N (kg) (ml/min) O-001 80 71.4 104 tablet 80 71.4 104 tablet 89.4 122 capsule 16 89.4 122 tablet 48 81.7 104 tablet 48 81.7 104 troche 16 94.0 93.2 troche 16 94.0 93.2 tablet 64 67.9 100 troche 16 76.6 99.2 troche 16 76.6 99.2 troche 16 76.6 99.2 O-002 capsule 36 61.3 113 capsule 36 61.3 113 tablet 324 77.6 106 capsule 36 74.1 112 capsule 36 74.1 112 tablet 324 71.2 106 <tr< td=""><td>Formulation N (kg) (ml/min) (years) O-001 tablet 80 71.4 104 33.7 tablet 80 71.4 104 33.7 capsule 16 89.4 122 24.4 tablet 48 81.7 104 34.4 tablet 48 81.7 104 34.4 troche 16 94.0 93.2 27.4 tablet 64 67.9 100 27.5 troche 16 76.6 99.2 22.8 troche 16 76.6 99.2 22.8 to-002 capsule 36 61.3 113 38.3 tablet 324 77.6 106 29.9 tablet 324</td><td>Formulation N (kg) (ml/min) (years) (g/dL) D-001 tablet 80 71.4 104 33.7 4.20 tablet 80 71.4 104 33.7 4.20 capsule 16 89.4 122 24.4 4.63 capsule 16 89.4 122 24.4 4.63 tablet 48 81.7 104 34.4 3.83 tablet 48 81.7 104 34.4 3.83 troche 16 94.0 93.2 27.4 4.94 troche 16 94.0 93.2 27.4 4.94 tablet 64 67.9 100 27.5 4.25 tablet 64 67.9 100 27.5 4.25 troche 16 76.6 99.2 22.8 4.54 toche 16 76.6 99.2 22.8 4.54 D-002 capsule<</td></tr<>	Formulation N (kg) (ml/min) (years) O-001 tablet 80 71.4 104 33.7 tablet 80 71.4 104 33.7 capsule 16 89.4 122 24.4 tablet 48 81.7 104 34.4 tablet 48 81.7 104 34.4 troche 16 94.0 93.2 27.4 tablet 64 67.9 100 27.5 troche 16 76.6 99.2 22.8 troche 16 76.6 99.2 22.8 to-002 capsule 36 61.3 113 38.3 tablet 324 77.6 106 29.9 tablet 324	Formulation N (kg) (ml/min) (years) (g/dL) D-001 tablet 80 71.4 104 33.7 4.20 tablet 80 71.4 104 33.7 4.20 capsule 16 89.4 122 24.4 4.63 capsule 16 89.4 122 24.4 4.63 tablet 48 81.7 104 34.4 3.83 tablet 48 81.7 104 34.4 3.83 troche 16 94.0 93.2 27.4 4.94 troche 16 94.0 93.2 27.4 4.94 tablet 64 67.9 100 27.5 4.25 tablet 64 67.9 100 27.5 4.25 troche 16 76.6 99.2 22.8 4.54 toche 16 76.6 99.2 22.8 4.54 D-002 capsule<

continued on next page

DOSE	Formulation	N	WT (kg)	CRCL (ml/min)	AGE (years)	ALB (g/dL)	SCR (mg/dL)
	tablet	288	71.6	98.9	34.2	4.49	0.991
	troche	36	73.6	103	49.2	4.52	0.930
	troche	36	73.6	103	49.2	4.52	0.930

The results look great! Source code: foo.R

}

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

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	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94	1.25
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25	1.10
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54	1.15
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04	1.28
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31	0.981
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44	0.900
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63	0.868
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89	0.900
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49	0.991
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	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	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910

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

STUDY		FORM						
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910

STUDY	DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20	1.06
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63	1.12
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83	0.910

24 Col space

• The default is 5

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

STUDY	DOSE	FORM	N	WT	CRCL	AGE	ALB
12-DEMO-001	100 mg	tablet	80	71.4	104	33.7	4.20
12-DEMO-001	150 mg	capsule	16	89.4	122	24.4	4.63
12-DEMO-001	150 mg	tablet	48	81.7	104	34.4	3.83
12-DEMO-001	150 mg	troche	16	94.0	93.2	27.4	4.94
12-DEMO-001	200 mg	tablet	64	67.9	100	27.5	4.25
12-DEMO-001	200 mg	troche	16	76.6	99.2	22.8	4.54
12-DEMO-002	100 mg	capsule	36	61.3	113	38.3	4.04
12-DEMO-002	100 mg	tablet	324	77.6	106	29.9	4.31
12-DEMO-002	50 mg	capsule	36	74.1	112	37.1	4.44
12-DEMO-002	50 mg	tablet	324	71.2	106	34.1	4.63
12-DEMO-002	75 mg	capsule	36	72.4	105	38.2	3.89
12-DEMO-002	75 mg	tablet	288	71.6	98.9	34.2	4.49
12-DEMO-002	75 mg	troche	36	73.6	103	49.2	4.52