Simple Tables Demo Doc

Contents

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()

data <- pmt_summarized

data
```

```
## # A tibble: 13 x 9
##    STUDY       DOSE   FORM    N     WT    CRCL  AGE   ALB   SCR
##    <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
##  7 12-DEMO-002 100 mg capsule 36    61.3  113   38.3  4.04  1.28
##  8 12-DEMO-002 100 mg tablet  324   77.6  106   29.9  4.31  0.981
##  9 12-DEMO-002 50 mg  capsule 36    74.1  112   37.1  4.44  0.900
## 10 12-DEMO-002 50 mg  tablet  324   71.2  106   34.1  4.63  0.868
## 11 12-DEMO-002 75 mg  capsule 36    72.4  105   38.2  3.89  0.900
## 12 12-DEMO-002 75 mg  tablet  288   71.6  98.9  34.2  4.49  0.991
## 13 12-DEMO-002 75 mg  troche  36    73.6  103   49.2  4.52  0.930
```

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

- Columns are in bold by default (can be turned off)

```
data %>% stable(units = ys_get_unit(spec, parens = TRUE)) %>% 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

4 Long table

```
data <- ptdata()
data <- map_dfr(1:2, ~ data) %>% arrange(STUDY,DOSE,FORM)
```

```
data %>%
  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
```

{

DOSE	Formulation	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
	tablet	80	71.4	104	33.7	4.20	1.06
150 mg	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
200 mg	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
12-DEMO-002							
100 mg	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
50 mg	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
75 mg	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

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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: output.tex

}

5 Pass in the caption

```
data %>%
  stable_long(
    panel = "STUDY",
    cols_bold = TRUE,
    notes = "The results look great!",
    clear_reps = "DOSE",
    lt_cap_text  = "This is a super-interesting table."
  ) %>% as.character() %>% writeLines
```

{

Table 2: This is a super-interesting table.

DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001							
100 mg	tablet	80	71.4	104	33.7	4.20	1.06
	tablet	80	71.4	104	33.7	4.20	1.06
150 mg	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
200 mg	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
12-DEMO-002							
100 mg	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
50 mg	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
75 mg	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	288	71.6	98.9	34.2	4.49	0.991
	troche	36	73.6	103	49.2	4.52	0.930

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DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
	troche	36	73.6	103	49.2	4.52	0.930

The results look great!

}

6 Use a caption from tex macro

```
writeLines("\\newcommand{\\myfbtable}{This is a caption from a macro}\\vskip 0.5cm")
```

```
data %>%
  stable_long(
    panel = "STUDY",
    cols_bold = TRUE,
    notes = "FORM: formulation",
    r_file = "demo-longtable.Rmd",
    output_file = "foo.tex",
    clear_reps = "DOSE",
    lt_cap_macro  = "myfbtable",
    note_config = noteconf(width = 0.7, type = "minipage", table_skip = 0.2)
  ) %>% as.character() %>% writeLines
```

{

Table 3: This is a caption from a macro

DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
12-DEMO-001							
100 mg	tablet	80	71.4	104	33.7	4.20	1.06
	tablet	80	71.4	104	33.7	4.20	1.06
150 mg	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
200 mg	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
12-DEMO-002							
100 mg	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
50 mg	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
75 mg	capsule	36	72.4	105	38.2	3.89	0.900

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DOSE	FORM	N	WT	CRCL	AGE	ALB	SCR
	capsule	36	72.4	105	38.2	3.89	0.900
	tablet	288	71.6	98.9	34.2	4.49	0.991
	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

FORM: formulation
Source code: demo-longtable.Rmd
Source file: foo.tex

}

7 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 (encouraged)

```
stable(
  data[1:10,],
  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	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	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	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	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	tablet	64	67.9	100	27.5	4.25	1.10

Data were analyzed in quadruplicate.
The results are very clear.
Source code: foo.R
Source file: foo.tex