qc-test

2025-12-15

Load libraries and data

```
library(pmtables)
library(mrggsave)
library(here)
```

```
## here() starts at /data/svn-proj-bii0911
```

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
## v dplyr     1.1.4     v readr     2.1.5
## v forcats   1.0.0     v stringr   1.5.1
## v ggplot2   3.5.2     v tibble    3.2.1
## v lubridate 1.9.4     v tidyr     1.3.1
## v purrr     1.0.4
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
dat <- mtcars

# Directories ----------------------------
tabDir <- here("deliv", "table", "eda")

# Set any script options ---------------------------
options(pmtables.path.type = "proj")
```

Tables

```
options(mrg.script = "script/pk/eda-tables-1.R", pmtables.dir = tabDir)

dat %>%
  mutate(
    ID = 1:n(),
    DV = 0) %>%
  pt_data_inventory() %>%
  st_new() %>%
  st_notes_detach(width = 1) %>%
  stable(output_file = "id-sum-example-1.tex") %>%
  pmtables::st_asis()
```

Number			Percent
SUBJ	MISS	OBS	OBS
32	0	32	100.0

SUBJ: subjects
MISS: missing observations
OBS: observations
Source code: script/pk/eda-tables-1.R
Source file: deliv/table/eda/id-sum-example-1.tex

```
dat %>%
  mutate(
    ID = 1:n(),
    DV = 0) %>%
  pt_data_inventory() %>%
  st_new() %>%
  st_notes_detach(width = 1) %>%
  stable(output_file = "id-sum-example-2.tex") %>%
  pmtables::st_asis()
```

Number			Percent
SUBJ	MISS	OBS	OBS
32	0	32	100.0

SUBJ: subjects
MISS: missing observations
OBS: observations
Source code: script/pk/eda-tables-1.R
Source file: deliv/table/eda/id-sum-example-2.tex

```
dat %>%
  mutate(
    ID = 1:n()) %>%
  pt_cont_long(cols = c("mpg", "wt")) %>%
  st_new() %>%
  st_notes_detach(width = 1) %>%
  stable(output_file = "id-sum-example-3.tex") %>%
  pmtables::st_asis()
```

Variable	n	Mean	Median	SD	Min / Max
mpg	32	20.1	19.2	6.03	10.4 / 33.9
wt	32	3.22	3.32	0.978	1.51 / 5.42

---

n: number of records summarized
SD: standard deviation
Min: minimum; Max: maximum
Source code: script/pk/eda-tables-1.R
Source file: deliv/table/eda/id-sum-example-3.tex

```
options(mrg.script = "script/eda-tables-2.R", pmtables.dir = tabDir)

dat %>%
  mutate(
    ID = 1:n(),
    DV = 0) %>%
  pt_data_inventory() %>%
  st_new() %>%
  st_notes_detach(width = 1) %>%
  stable(output_file = "id-sum-example-1.tex") %>%
  pmtables::st_asis()
```

Number			Percent
SUBJ	MISS	OBS	OBS
32	0	32	100.0

SUBJ: subjects
MISS: missing observations
OBS: observations
Source code: script/eda-tables-2.R
Source file: deliv/table/eda/id-sum-example-1.tex

```
dat %>%
  mutate(
    ID = 1:n(),
    DV = 0) %>%
  pt_data_inventory() %>%
  st_new() %>%
  st_notes_detach(width = 1) %>%
  stable(output_file = "id-sum-example-4.tex") %>%
  pmtables::st_asis()
```

Number			Percent
SUBJ	MISS	OBS	OBS
32	0	32	100.0

SUBJ: subjects
MISS: missing observations
OBS: observations
Source code: script/eda-tables-2.R
Source file: deliv/table/eda/id-sum-example-4.tex

```
options(mrg.script = "script/eda-tables-3.R", pmtables.dir = tabDir)

dat %>%
  mutate(
    ID = 1:n(),
    DV = 0) %>%
  pt_data_inventory() %>%
  st_new() %>%
  st_notes_detach(width = 1) %>%
  stable(output_file = "examp-tab-1.tex") %>%
  pmtables::st_asis()
```

Number			Percent
SUBJ	MISS	OBS	OBS
32	0	32	100.0

SUBJ: subjects
MISS: missing observations
OBS: observations
Source code: script/eda-tables-3.R
Source file: deliv/table/eda/examp-tab-1.tex

```
dat %>%
  bind_rows(dat) %>%
  bind_rows(dat) %>%
  st_new() %>%
  st_notes_detach(width = 1) %>%
  stable_long(output_file = "examp-tab-2.tex") %>%
  pmtables::st_asis()
```

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4

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mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4
14.7	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	2
15.8	8	351	264	4.22	3.17	14.5	0	1	5	4
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4

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mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4
14.7	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	2
15.8	8	351	264	4.22	3.17	14.5	0	1	5	4
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2
21	6	160	110	3.9	2.62	16.46	0	1	4	4
21	6	160	110	3.9	2.875	17.02	0	1	4	4
22.8	4	108	93	3.85	2.32	18.61	1	1	4	1
21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360	175	3.15	3.44	17.02	0	0	3	2
18.1	6	225	105	2.76	3.46	20.22	1	0	3	1
14.3	8	360	245	3.21	3.57	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.19	20	1	0	4	2
22.8	4	140.8	95	3.92	3.15	22.9	1	0	4	2
19.2	6	167.6	123	3.92	3.44	18.3	1	0	4	4
17.8	6	167.6	123	3.92	3.44	18.9	1	0	4	4
16.4	8	275.8	180	3.07	4.07	17.4	0	0	3	3
17.3	8	275.8	180	3.07	3.73	17.6	0	0	3	3
15.2	8	275.8	180	3.07	3.78	18	0	0	3	3
10.4	8	472	205	2.93	5.25	17.98	0	0	3	4
10.4	8	460	215	3	5.424	17.82	0	0	3	4
14.7	8	440	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.2	19.47	1	1	4	1

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mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
33.9	4	71.1	65	4.22	1.835	19.9	1	1	4	1
21.5	4	120.1	97	3.7	2.465	20.01	1	0	3	1
15.5	8	318	150	2.76	3.52	16.87	0	0	3	2
15.2	8	304	150	3.15	3.435	17.3	0	0	3	2
13.3	8	350	245	3.73	3.84	15.41	0	0	3	4
19.2	8	400	175	3.08	3.845	17.05	0	0	3	2
27.3	4	79	66	4.08	1.935	18.9	1	1	4	1
26	4	120.3	91	4.43	2.14	16.7	0	1	5	2
30.4	4	95.1	113	3.77	1.513	16.9	1	1	5	2
15.8	8	351	264	4.22	3.17	14.5	0	1	5	4
19.7	6	145	175	3.62	2.77	15.5	0	1	5	6
15	8	301	335	3.54	3.57	14.6	0	1	5	8
21.4	4	121	109	4.11	2.78	18.6	1	1	4	2

Source code: script/eda-tables-3.R
Source file: deliv/table/eda/examp-tab-2.tex

Figures

```
figDir = here("deliv", "figure")

# Set any script options -----------------------------
options(mrg.script = "script/pk/pk-eda-figures.R", mrggsave.dir = figDir)

p1 <- pmplots::eta_pairs(dat, etas = c("wt", "mpg"))
```

```
## Loading required namespace: GGally
```

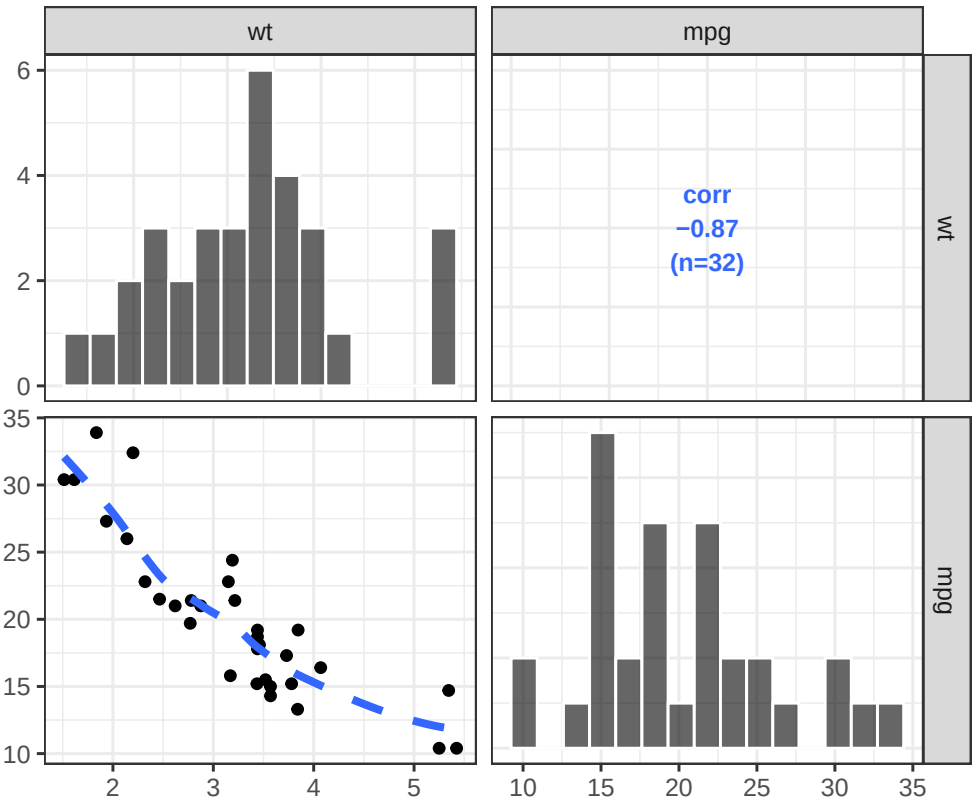
```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
```

```
mrggsave(p1, stem = "cont-vs-cont")
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

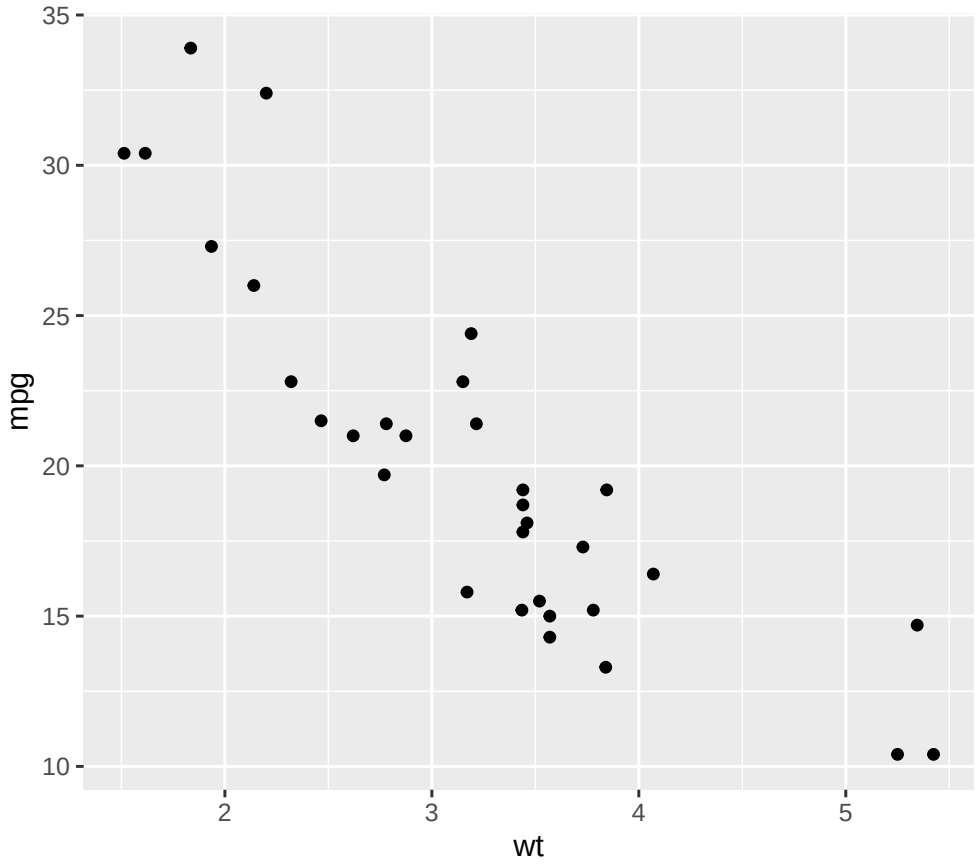
```
p2 <- dat %>% ggplot2::ggplot(aes(x = wt, y = mpg)) + ggplot2::geom_point()

mrggsave(p2, stem = "wt-mpg-scatter")
```

```
# Set any script options -----------------------------
options(mrg.script = "script/pk/pk-eda-figures-2.R")

p1 <- pmplots::eta_pairs(dat, etas = c("wt", "mpg"))

mrggsave(p1, stem = "cont-vs-cont-2")
```



Source code: script/pk/pk−eda−figures.R
Source graphic: deliv/figure/cont−vs−cont.pdf

Figure 1: My figure caption

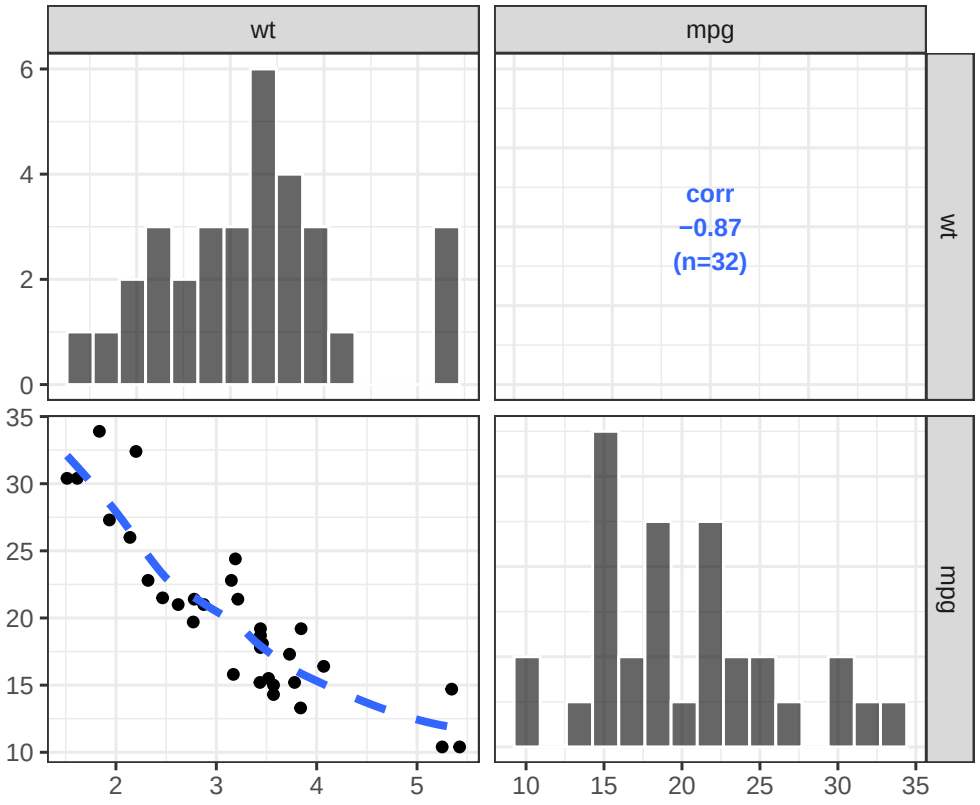


Source code: script/pk/pk−eda−figures.R
Source graphic: deliv/figure/wt−mpg−scatter.pdf

Figure 2: My figure caption

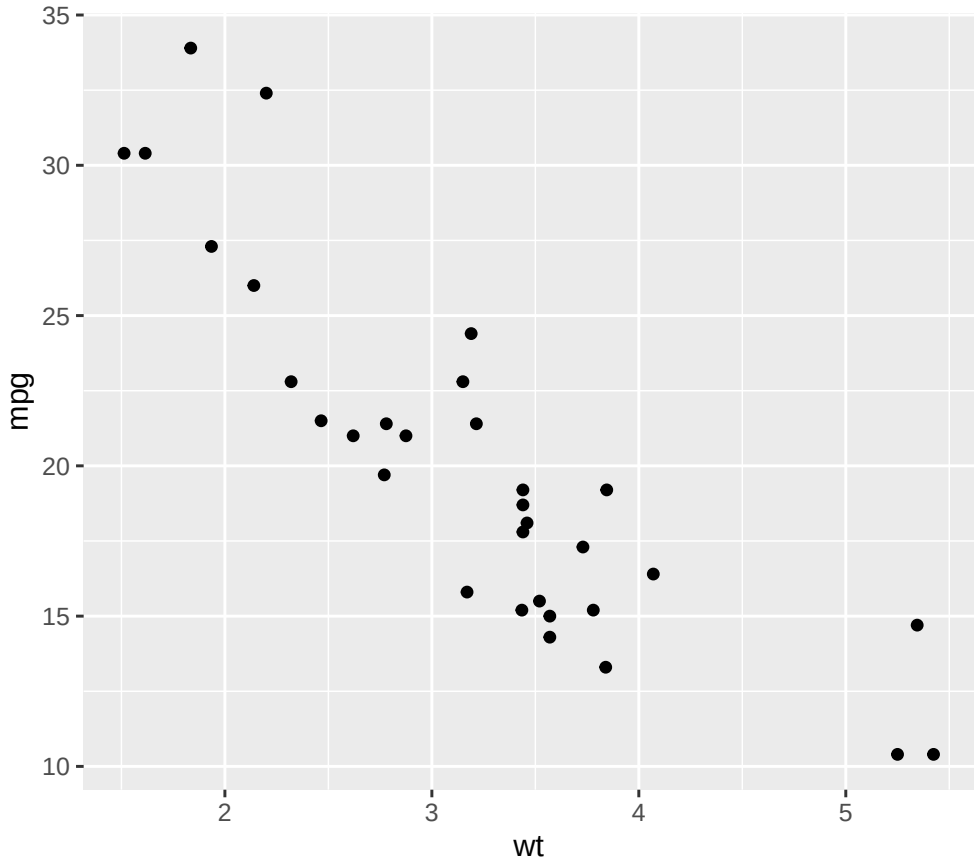
```
## `geom_smooth()` using formula = 'y ~ x'
```

```
p2 <- dat %>% ggplot2::ggplot(aes(x = wt, y = mpg)) + ggplot2::geom_point()

mrggsave(p2, stem = "wt-mpg-scatter-2")
```



Source code: script/pk/pk−eda−figures−2.R
Source graphic: deliv/figure/cont−vs−cont−2.pdf

Figure 3: My figure caption



Source code: script/pk/pk−eda−figures−2.R
Source graphic: deliv/figure/wt−mpg−scatter−2.pdf

Figure 4: My figure caption