```r
library(MASS)
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   3.5.1      v tibble     3.2.1
v lubridate 1.9.3      v tidyr      1.3.1
v purrr     1.0.2
-- Conflicts ----------------------------------------- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
x dplyr::select() masks MASS::select()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becom
```

```r
library(Matrix)
```

```
Attaching package: 'Matrix'

The following objects are masked from 'package:tidyr':

    expand, pack, unpack
```

```r
library(gt)
```

```r
m <- matrix(c(-1,1,1,1), nrow = 2, byrow = TRUE)
m
```

```
     [,1] [,2]
[1,]   -1    1
[2,]    1    1
```

```r
solve(m) %*% matrix(c(3,5))
```

```
     [,1]
[1,]    1
[2,]    4
```

1

```r
m <- matrix(c(1, 0,3, 0, 1, 2, 1,1,5), nrow = 3, byrow = TRUE)
m
```

```
     [,1] [,2] [,3]
[1,]    1    0    3
[2,]    0    1    2
[3,]    1    1    5
```

```r
m <- matrix(c(1,0,1,1,1,0,1,1,1), nrow = 3, byrow = TRUE)
solve(m)%*%matrix(c(1,2,3))
```

```
     [,1]
[1,]    0
[2,]    2
[3,]    1
```

```r
m <- matrix(c(1,1,-2,4), nrow = 2, byrow = TRUE)
m
```

```
     [,1] [,2]
[1,]    1    1
[2,]   -2    4
```

```r
eigen(m)[2]
```

```
$vectors
           [,1]       [,2]
[1,] -0.4472136 -0.7071068
[2,] -0.8944272 -0.7071068
```

```r
A <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8, 9), nrow=3, ncol=3)

# Step 2: Perform SVD
svd_result <- svd(A)
```

```r
b <- matrix(c(3,2,3,2), nrow=2, byrow = TRUE)
u <- svd(b)$u
v <- svd(b)$v
d <- diag(svd(b)$d)
```

```
u %*% d %*% t(v)
```

```
     [,1] [,2]
[1,]    3    2
[2,]    3    2
```

$$f(x) = \frac{dF(x)}{dx}$$

$$F(x) = P(a \le x \le b) = \int_a^b f(x)\,dx$$

$$f(x) = \frac{dF(x)}{dx}$$

$$F(x) = P(a \le x \le b) = \int_a^b f(x)d(x)$$

What's new in cliptools 1.5.

```
model <- lm(mpg ~ wt + cyl + hp + qsec + drat, data = mtcars)

mtcars |>
  head(20) |>
  gt() |>
  as_raw_html()
```

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4
17.8	6	167.6	123	3.92	3.440	18.90	1	0	4	4

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
16.4	8	275.8	180	3.07	4.070	17.40	0	0	3	3
17.3	8	275.8	180	3.07	3.730	17.60	0	0	3	3
15.2	8	275.8	180	3.07	3.780	18.00	0	0	3	3
10.4	8	472.0	205	2.93	5.250	17.98	0	0	3	4
10.4	8	460.0	215	3.00	5.424	17.82	0	0	3	4
14.7	8	440.0	230	3.23	5.345	17.42	0	0	3	4
32.4	4	78.7	66	4.08	2.200	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	19.90	1	1	4	1

```
#cat(gsub("longtable", "tabular", gt::as_latex(gt_table)))
```

Adipiscing porttitor vitae pellentesque est porta porttitor phasellus morbi metus: etiam cras. Commodo est sociis convallis, iaculis nam diam tempor feugiat condimentum ligula lacinia dis. Non duis nostra ac, potenti pretium conubia auctor eros. Ullamcorper sollicitudin eget suspendisse, a senectus interdum laoreet, aptent tellus.

Elit netus nam semper fames, lectus aliquam rhoncus vel netus magna. Aptent nascetur congue rutrum enim molestie lobortis per cursus: torquent: sapien nec! Porttitor tortor ridiculus vulputate, euismod justo luctus potenti elementum magnis volutpat montes? Na montes?

Consectetur massa nam mollis, facilisi aenean potenti hac ut consequat. Eleifend auctor nullam ultrices, quis sed magnis, non egestas egestas. Molestie sociis sociosqu habitant lectus habitant inceptos donec class congue inceptos et vel. Interdum congue metus quam lobortis nunc taciti.