```r
library(tidyverse)

diamonds %>%
ggplot() +
  aes(x = 0) +
  geom_bar(position = "fill") +
  aes(fill = cut) +
  stat_count(
    geom = "text", position = "fill",
    color = "white", size = 8,
    aes(x = .25,
        label = after_stat(
          count*100/sum(count)) |>
          round(1) |>
          paste0("%"))) +
# usually would include this in above function
  aes(y = stage(start = NULL,
                after_stat = count,
                after_scale = (ymin +
                               ymax)/2)) +

  coord_polar(theta = "y") +
  theme_void() ->
classic_pie
```

ggtrace may help clarify strategy?

```
ggtrace::layer_before_stat(classic_pie, i = 2)
```

```
## # A tibble: 53,940 × 4
##        x fill      PANEL group
##    <dbl> <ord>     <fct> <int>
##  1  0.25 Ideal     1         5
##  2  0.25 Premium   1         4
##  3  0.25 Good      1         2
##  4  0.25 Premium   1         4
##  5  0.25 Good      1         2
##  6  0.25 Very Good 1         3
##  7  0.25 Very Good 1         3
##  8  0.25 Very Good 1         3
##  9  0.25 Fair      1         1
## 10  0.25 Very Good 1         3
## # ℹ 53,930 more rows
```

ggtrace may help clarify strategy?

```
ggtrace::layer_after_stat(classic_pie,i = 2)
```

```
## # A tibble: 5 × 8
##   count  prop     x width flipped_aes fill      PANEL group
##   <dbl> <dbl> <dbl> <dbl> <lgl>       <ord>     <fct> <int>
## 1  1610     1  0.25   0.9 FALSE       Fair      1         1
## 2  4906     1  0.25   0.9 FALSE       Good      1         2
## 3 12082     1  0.25   0.9 FALSE       Very Good 1         3
## 4 13791     1  0.25   0.9 FALSE       Premium   1         4
## 5 21551     1  0.25   0.9 FALSE       Ideal     1         5
```

ggtrace may help clarify strategy?

```
ggtrace::layer_after_scale(classic_pie, i = 2) %>% data.frame()
```

```
##           y        fill label count prop    x width flipped_aes PANEL group
## 1 0.9850760 #440154FF    3%  1610    1 0.25   0.9       FALSE     1     1
## 2 0.9246756 #3B528BFF  9.1%  4906    1 0.25   0.9       FALSE     1     2
## 3 0.7672043 #21908CFF 22.4% 12082    1 0.25   0.9       FALSE     1     3
## 4 0.5273730 #5DC863FF 25.6% 13791    1 0.25   0.9       FALSE     1     4
## 5 0.1997683 #FDE725FF   40% 21551    1 0.25   0.9       FALSE     1     5
##        ymax xmin xmax      ymin colour size angle hjust vjust alpha family
## 1 1.0000000 0.25 0.25 0.9701520  white    8     0   0.5   0.5    NA
## 2 0.9701520 0.25 0.25 0.8791991  white    8     0   0.5   0.5    NA
## 3 0.8791991 0.25 0.25 0.6552095  white    8     0   0.5   0.5    NA
## 4 0.6552095 0.25 0.25 0.3995365  white    8     0   0.5   0.5    NA
## 5 0.3995365 0.25 0.25 0.0000000  white    8     0   0.5   0.5    NA
##   fontface lineheight
## 1        1        1.2
## 2        1        1.2
## 3        1        1.2
## 4        1        1.2
## 5        1        1.2
```

Contribute

- https://yjunechoe.github.io/ggtrace/

Check out flipbookr, used to build this featurette

- https://github.com/EvaMaeRey/flipbookr
- discussion: https://github.com/EvaMaeRey/flipbookr/blob/master/docs/draft_jasa_submission.pdf

Check out more featurettes

- https://EvaMaeRey.github.io/featurette