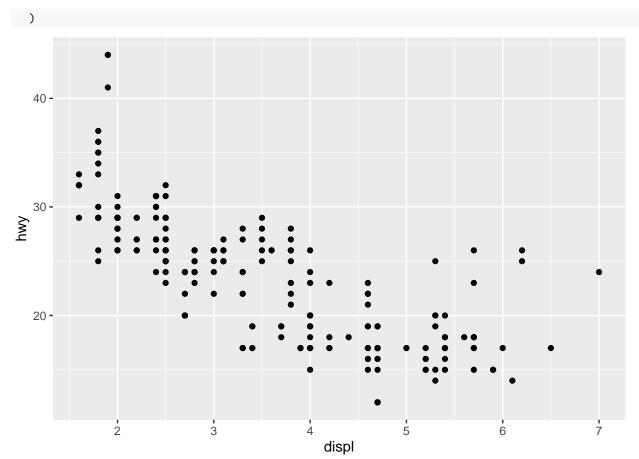
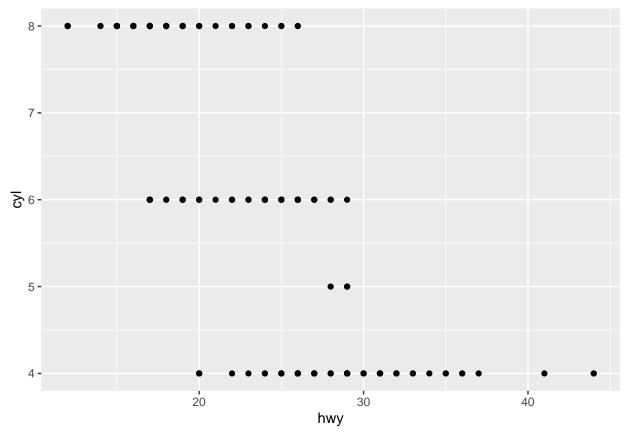
Cap1

```
#VERIFICAR SE O PACOTE ESTÁ CARREGADO
pacotesRequisitados = c("tidyverse")
for(p in pacotesRequisitados){
 if(!require(
   p, character.only = TRUE
 ))
   install.packages(p)
 library(p,character.only = TRUE)
}
## Carregando pacotes exigidos: tidyverse
## -- Attaching core tidyverse packages -----
                                               ----- tidyverse 2.0.0 --
## v dplyr
              1.1.4
                                    2.1.4
                        v readr
                        v stringr
## v forcats
              1.0.0
                                    1.5.1
## v ggplot2
              3.4.4
                        v tibble
                                    3.2.1
## v lubridate 1.9.3
                                    1.3.0
                        v tidyr
## v purrr
              1.0.2
## -- Conflicts -----
                                         ## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                 masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
Carregamento dos Dados.
mpg
## # A tibble: 234 x 11
##
     manufacturer model
                             displ year
                                           cyl trans drv
                                                             cty
                                                                   hwy fl
                                                                             class
##
     <chr>
                  <chr>
                             <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
##
   1 audi
                  a4
                               1.8 1999
                                             4 auto~ f
                                                             18
                                                                    29 p
                                                                            comp~
## 2 audi
                 a4
                               1.8 1999
                                             4 manu~ f
                                                             21
                                                                    29 p
                                                                            comp~
## 3 audi
                 a4
                               2
                                    2008
                                             4 manu~ f
                                                             20
                                                                    31 p
                                                                            comp~
                                             4 auto~ f
## 4 audi
                                    2008
                 a4
                               2
                                                             21
                                                                    30 p
                                                                            comp~
## 5 audi
                  a4
                               2.8 1999
                                             6 auto~ f
                                                             16
                                                                    26 p
                                                                            comp~
## 6 audi
                 a4
                              2.8 1999
                                             6 manu~ f
                                                             18
                                                                   26 p
                                                                            comp~
                                                                   27 p
## 7 audi
                  a4
                               3.1 2008
                                             6 auto~ f
                                                            18
                                                                            comp~
## 8 audi
                  a4 quattro 1.8 1999
                                             4 manu~ 4
                                                             18
                                                                    26 p
                                                                            comp~
## 9 audi
                              1.8 1999
                                             4 auto~ 4
                                                             16
                  a4 quattro
                                                                    25 p
                                                                            comp~
## 10 audi
                  a4 quattro
                                    2008
                                             4 manu~ 4
                                                             20
                                                                    28 p
                                                                            comp~
                               2
## # i 224 more rows
Criação de um ggplot.
ggplot(data = mpg) +
 geom_point(
   mapping = aes(
     x = displ, y = hwy
```



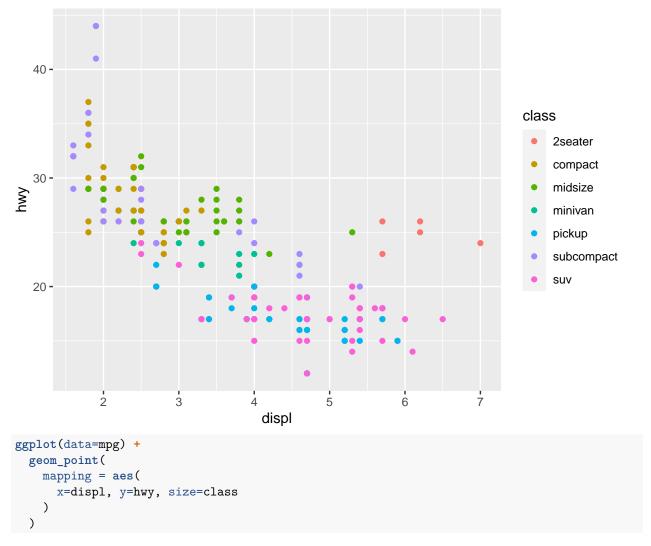
Pagina 6 - Exercicio 4

```
ggplot(data = mpg) +
  geom_point(
    mapping = aes(
        x=hwy, y=cyl
    )
)
```

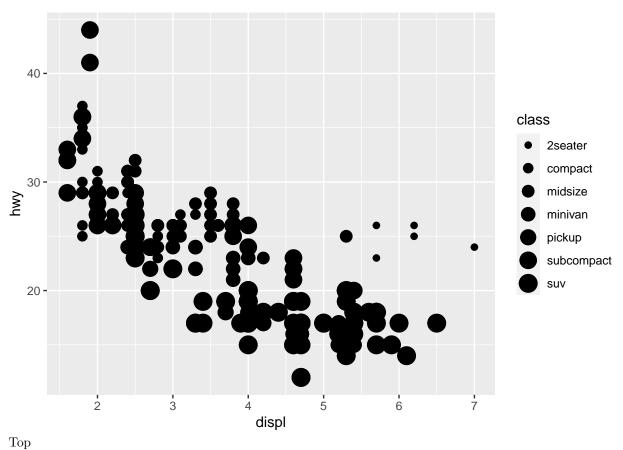


Pagina 8

```
ggplot(data = mpg) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy, color = class
    )
)
```

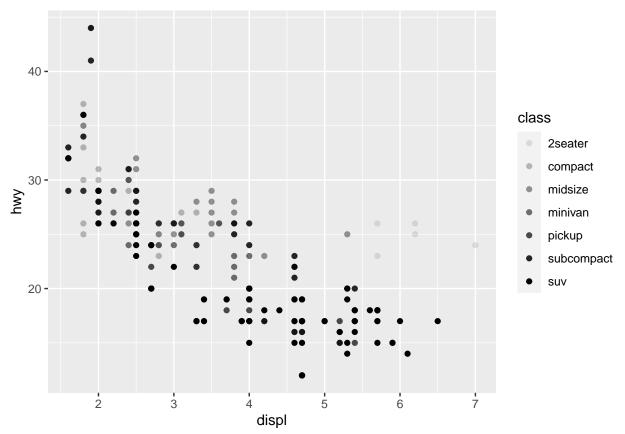


Warning: Using size for a discrete variable is not advised.



```
ggplot(data=mpg)+
 geom_point(
    mapping = aes(
     x=displ, y=hwy, alpha=class
    )
 )
```

Warning: Using alpha for a discrete variable is not advised.

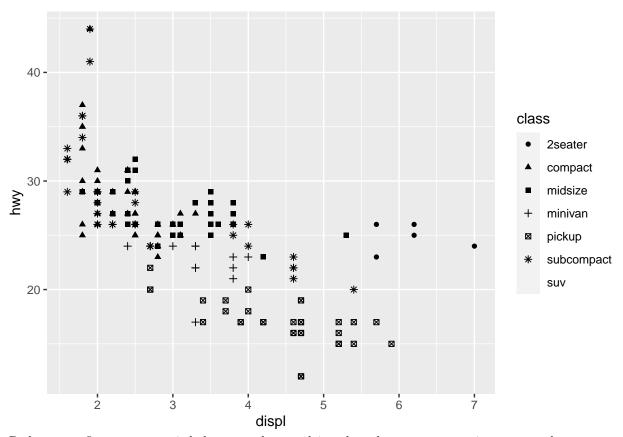


${\bf Bottom}$

```
ggplot(data=mpg)+
  geom_point(
    mapping = aes(
       x=displ, y=hwy, shape=class #utilização de 6 classes, se houver mais categorias fica fora
  )
)
```

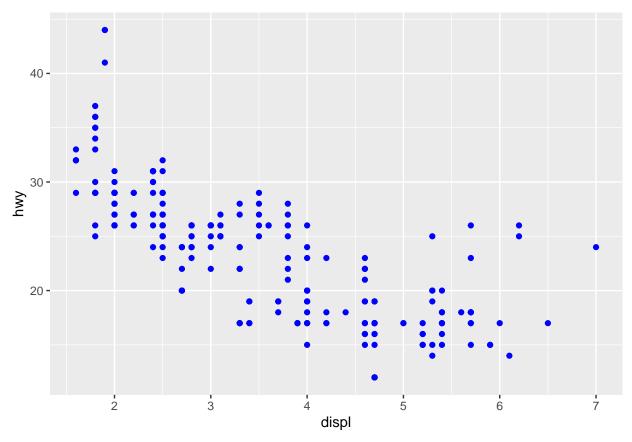
```
## Warning: The shape palette can deal with a maximum of 6 discrete values because
## more than 6 becomes difficult to discriminate; you have 7. Consider
## specifying shapes manually if you must have them.
```

Warning: Removed 62 rows containing missing values (`geom_point()`).



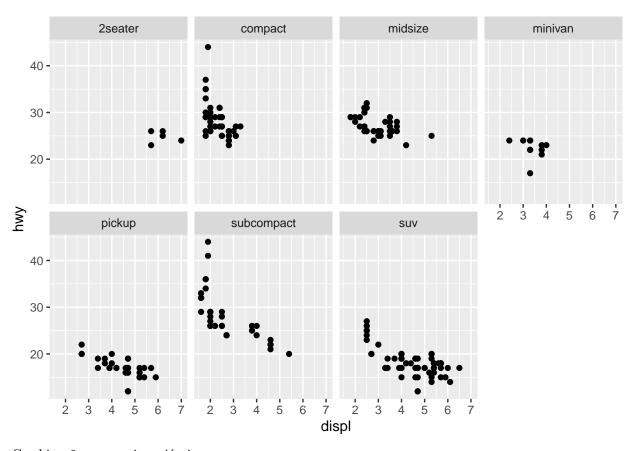
Podemos configurar as propriedades manualmente deixando todos os pontos azuis por exemplo

```
ggplot(
  data=mpg
) +
  geom_point(
   mapping = aes(
       x=displ, y=hwy
  ), color="blue" # a cor não transmite a informação sobre uma variável
)
```



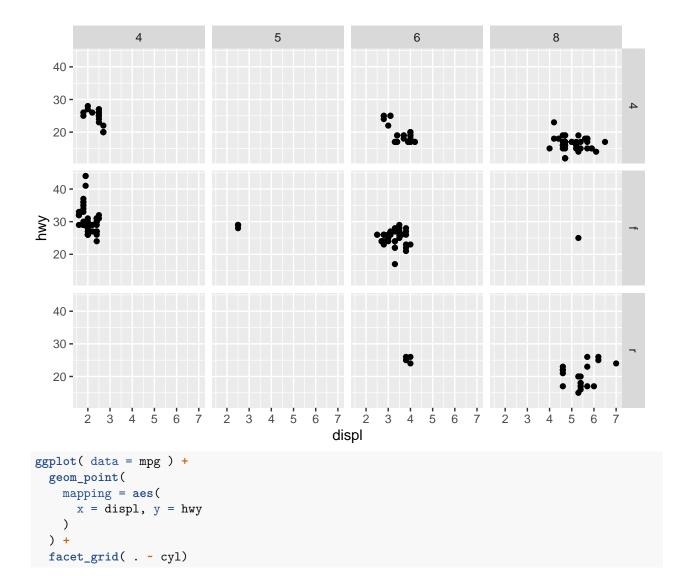
Facetas

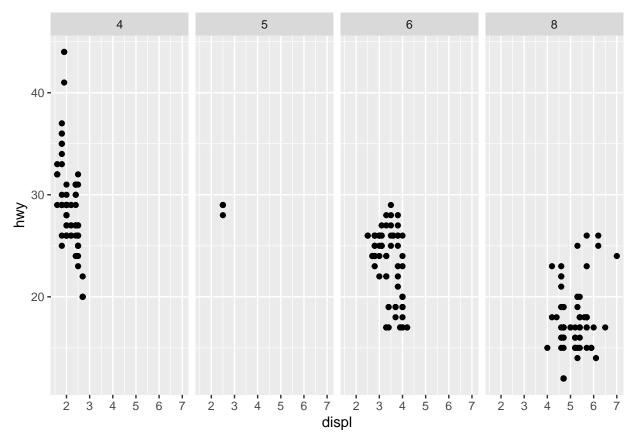
```
ggplot( data = mpg ) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy
    )
) +
facet_wrap(
  ~ class, nrow = 2
)
```



Combinação com mais variáveis

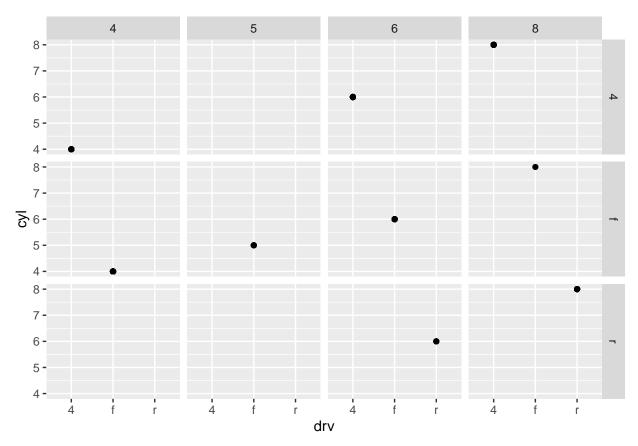
```
ggplot( data = mpg ) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy
    )
) +
  facet_grid( drv ~ cyl)
```





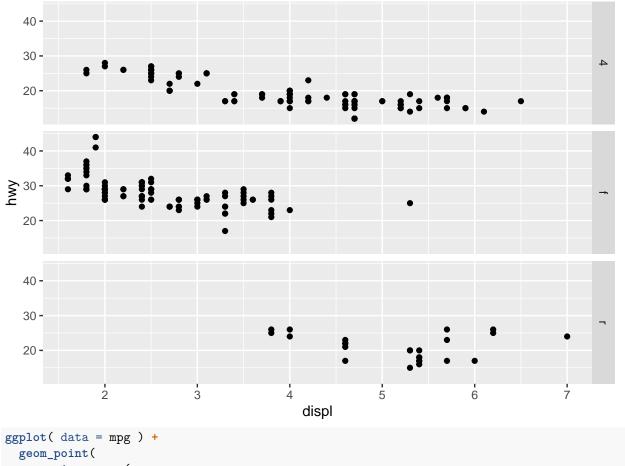
Exercicio 2

```
ggplot( data = mpg ) +
  geom_point(
    mapping = aes(
        x = drv, y = cyl
    )
  ) +
  facet_grid( drv ~ cyl)
```

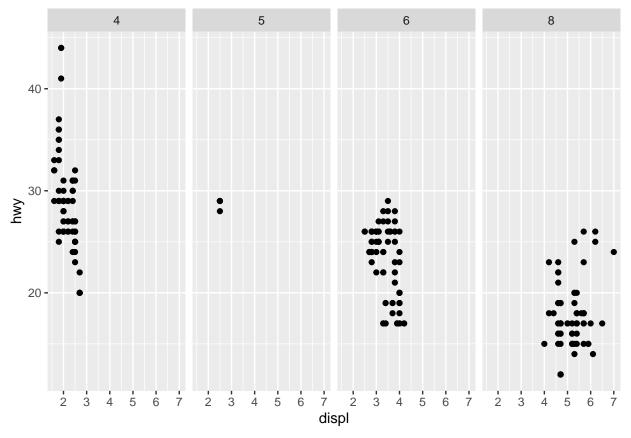


Exercício 3

```
ggplot( data = mpg ) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy
    )
  ) +
  facet_grid(
    drv ~ .
  )
```



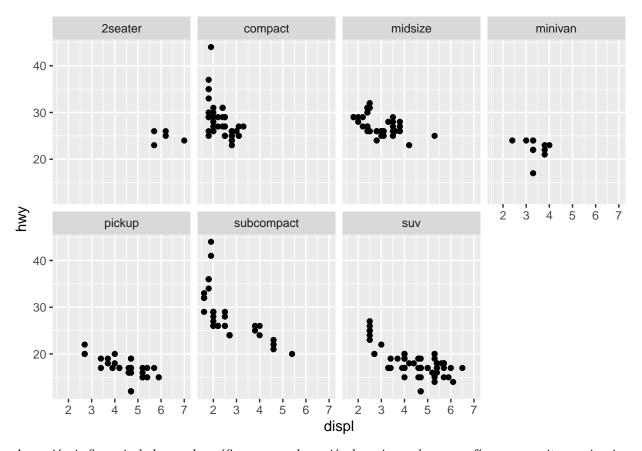
```
ggplot( data = mpg ) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy
    )
  ) +
  facet_grid(
    . ~ cyl
)
```



Fazendo de acordo com a varíavel.

Exercicio 4

```
ggplot(data = mpg) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy
    )
    ) +
  facet_wrap( ~ class, ncol = 4)
```



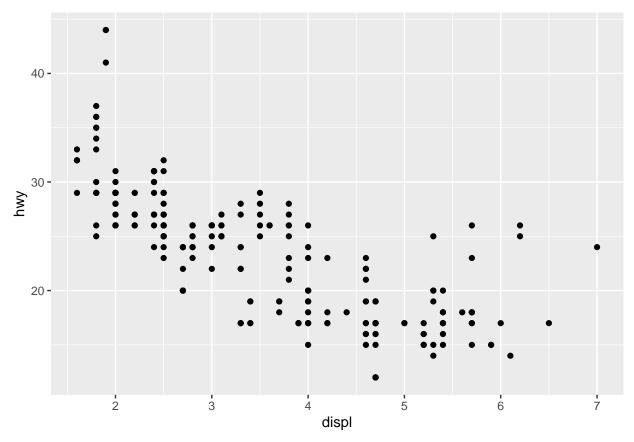
As variáveis ficam isoladas, cada gráfico para cada variável, ao inves de um grafíco para muitas variaveis.

Exercício 5 nrow dividi-se em linhas ncol dividi-se em colunas facet_grid não tem variaveis nrow e ncol pois são de acordo com variaveis as quais você insere de acordo

Objetos geométricos pag 16

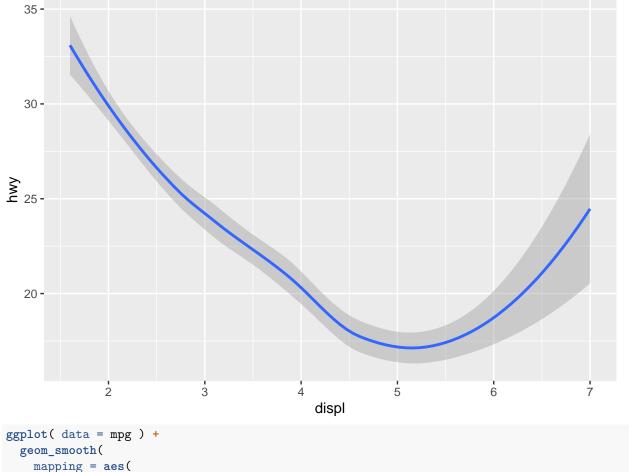
left

```
ggplot( data = mpg ) +
geom_point(
  mapping = aes(
    x = displ, y = hwy
)
)
```



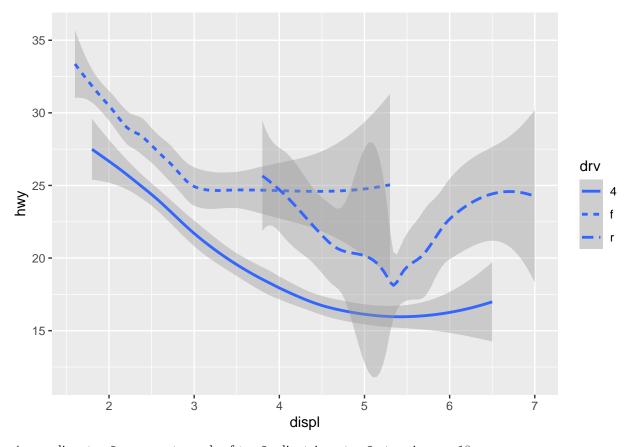
 right

```
ggplot( data = mpg ) +
  geom_smooth(
    mapping = aes(
        x = displ, y = hwy
    )
)
```



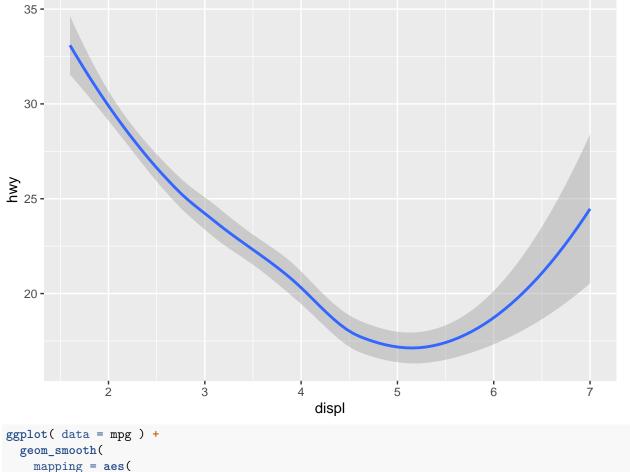
geom_smooth(
 mapping = aes(
 x = displ, y = hwy, linetype = drv
)
)

$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'



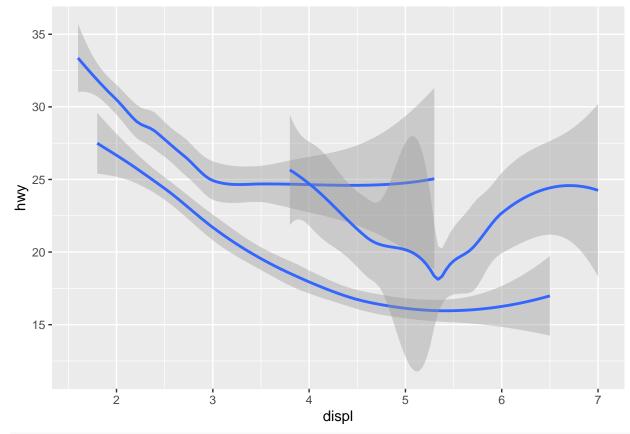
4 quer dizer tração nas quatro rodas f
 tração dianteira r
 tração traseira pag $18\,$

```
ggplot(data = mpg) +
  geom_smooth(
    mapping = aes(
        x = displ, y = hwy
    )
)
```



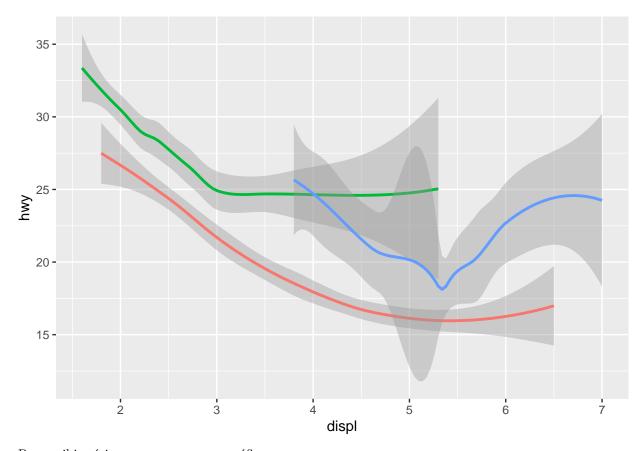
```
geom_smooth(
  mapping = aes(
    x = displ, y = hwy, group = drv
  )
)
```

$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'



```
ggplot( data = mpg) +
geom_smooth(
  mapping = aes(
    x = displ, y = hwy, color = drv
),
  show.legend = FALSE
)
```

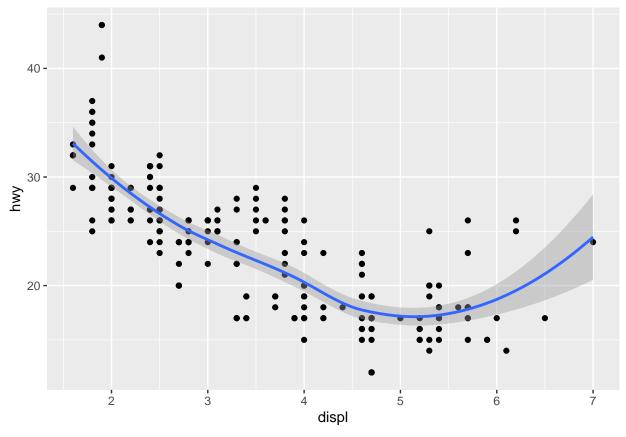
$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'



Para exibir vários geoms no mesmo gráfico

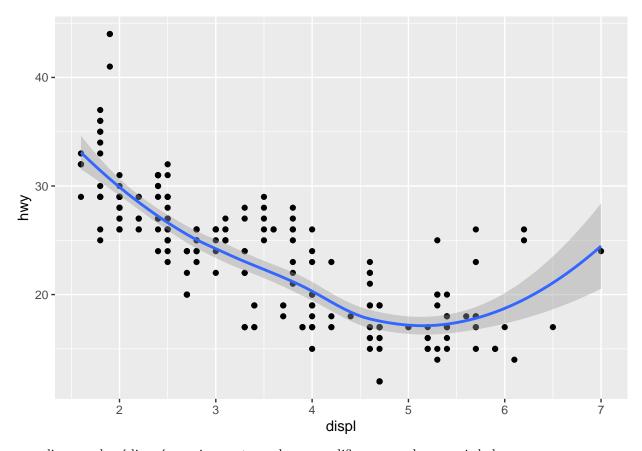
```
ggplot(data = mpg) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy
    )
) +
  geom_smooth(
    mapping = aes(
        x = displ, y = hwy
    )
)
```

$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'



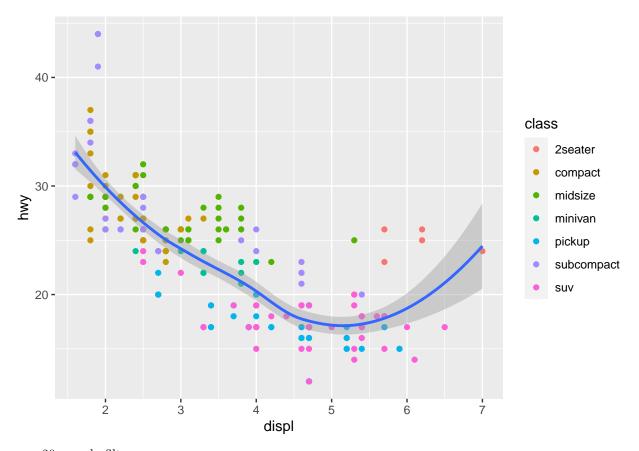
duplicação de código, pois estou plotando os mesmo dados em dois tipos de gráficos diferentes péssimo para manutenção do código.. o mais correto seria.

```
ggplot(
  data = mpg, mapping = aes(
    x = displ, y = hwy
)
)+
  geom_point() +
  geom_smooth()
```



para limpeza do código, é o mais correto..podemos modificar umas das propriedades

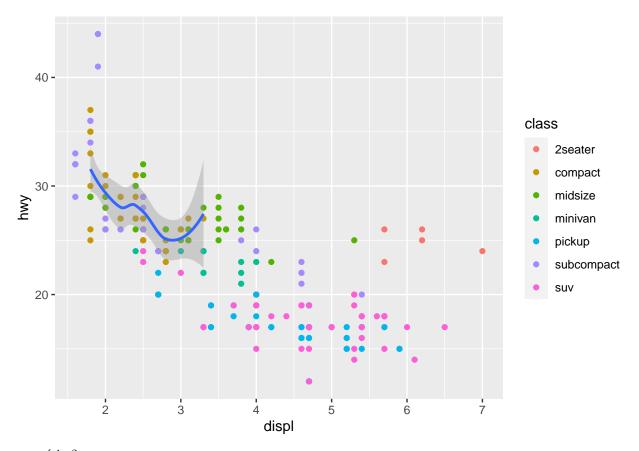
```
ggplot(
  data = mpg, mapping = aes(
    x = displ, y = hwy
)
) +
  geom_point(
    mapping = aes(
       color = class
    )
) +
  geom_smooth()
```



pag 20 usando filter

```
ggplot(
  data = mpg, mapping = aes(
    x = displ, y = hwy
)
) +
  geom_point(
  mapping = aes(
    color = class
)
) +
  geom_smooth(
  data = filter(
    mpg, class == "compact"
), se = TRUE
)
```

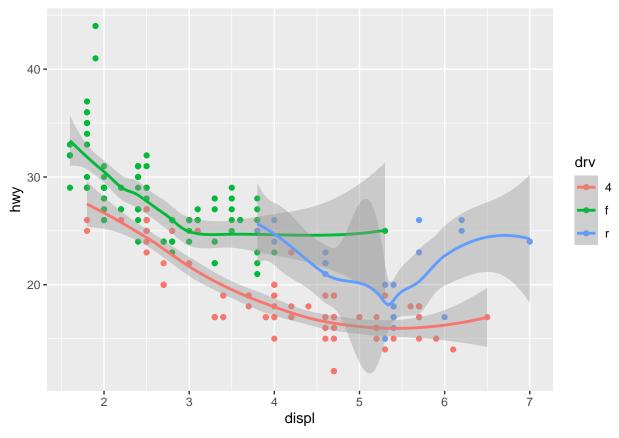
$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'



exercício $2\,$

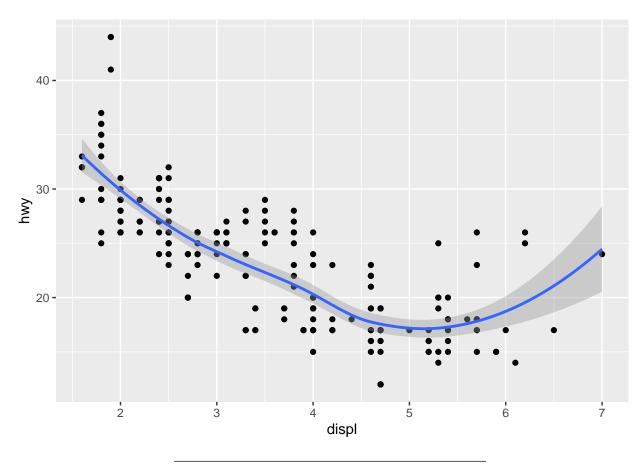
```
ggplot(
  data = mpg,
  mapping = aes(
    x = displ, y = hwy, color = drv
)) +
    geom_point() +
    geom_smooth(
    se = TRUE
    )
```

$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'



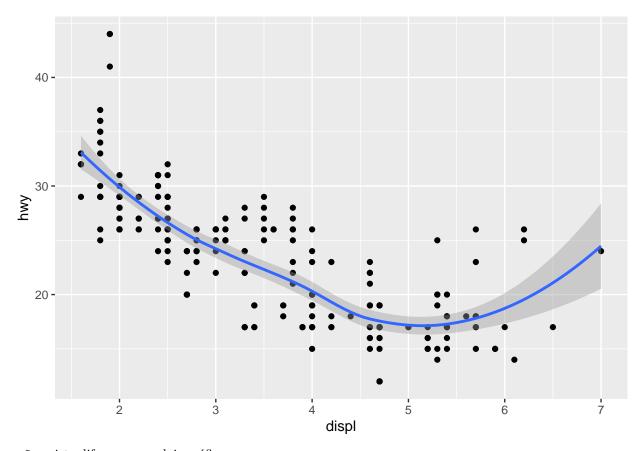
exercício $5\,$

```
ggplot(
  data = mpg, mapping = aes(
    x = displ, y = hwy
)) +
  geom_point() +
  geom_smooth()
```



```
ggplot() +
  geom_point(
    data = mpg, mapping = aes(
        x = displ, y = hwy
    )) +
  geom_smooth(
    data = mpg,
    mapping = aes(
        x = displ, y = hwy
    )
)
```

$geom_smooth()$ using method = 'loess' and formula = 'y ~ x'

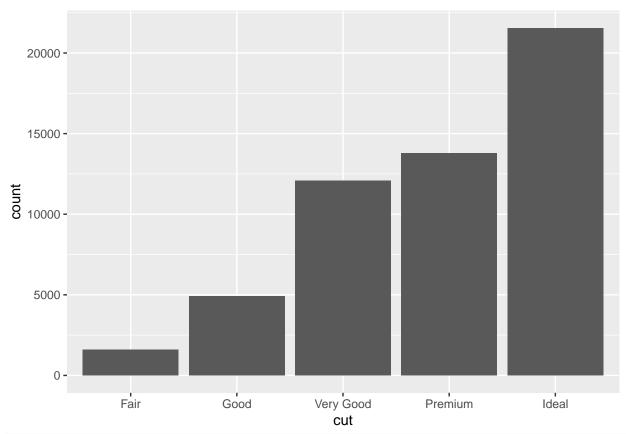


não existe diferença nos dois gráficos.

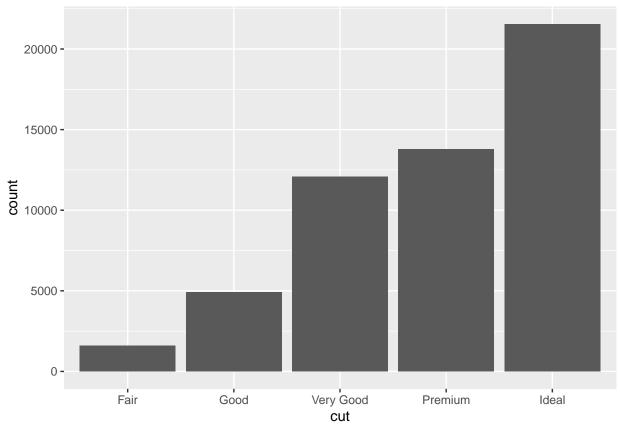
transformações estatísticas pag 22

diamonds

```
## # A tibble: 53,940 x 10
##
      carat cut
                       color clarity depth table price
                                                                   У
##
      <dbl> <ord>
                       <ord> <ord>
                                      <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
    1 0.23 Ideal
                                       61.5
                       Ε
                             SI2
                                               55
                                                     326
                                                          3.95
                                                                3.98
                                                                       2.43
##
##
       0.21 Premium
                       Ε
                             SI1
                                       59.8
                                               61
                                                     326
                                                          3.89
                                                                3.84
                                                                       2.31
##
       0.23 Good
                       Ε
                             VS1
                                       56.9
                                               65
                                                     327
                                                          4.05
                                                                4.07
                                                                       2.31
    4 0.29 Premium
                       Ι
                             VS2
                                       62.4
                                               58
                                                     334
                                                          4.2
                                                                 4.23
                                                                       2.63
##
    5 0.31 Good
##
                       J
                             SI2
                                       63.3
                                               58
                                                     335
                                                          4.34
                                                                4.35
                                                                       2.75
                                       62.8
                                                                3.96
##
    6 0.24 Very Good J
                             VVS2
                                               57
                                                     336
                                                          3.94
                                                                       2.48
##
       0.24 Very Good I
                             VVS1
                                       62.3
                                               57
                                                     336
                                                          3.95
                                                                3.98
                                                                       2.47
##
    8
       0.26 Very Good H
                             SI1
                                       61.9
                                               55
                                                     337
                                                          4.07
                                                                4.11
                                                                      2.53
       0.22 Fair
                             VS2
                                       65.1
                                               61
                                                          3.87
                                                                3.78
##
                                                     337
                                                                      2.49
                                       59.4
## 10 0.23 Very Good H
                             VS1
                                               61
                                                     338
                                                          4
                                                                 4.05 2.39
## # i 53,930 more rows
ggplot(data = diamonds) +
  geom_bar(mapping = aes(
    x = cut
 ))
```

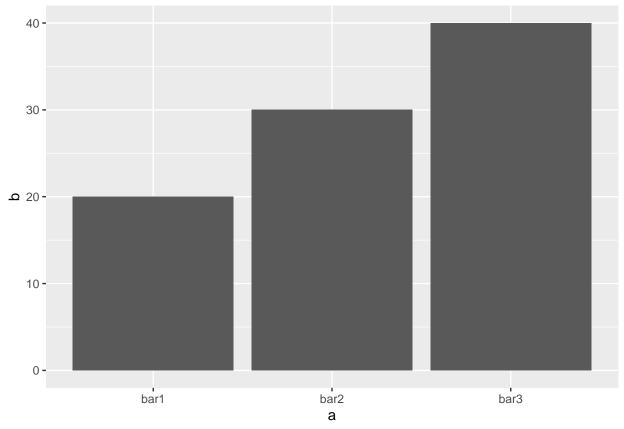


```
ggplot(
  data = diamonds
) +
  stat_count(mapping = aes(
    x = cut
))
```



```
demo <- tribble(
    ~a, ~b,
    "bar1", 20,
    "bar2", 30,
    "bar3", 40
)

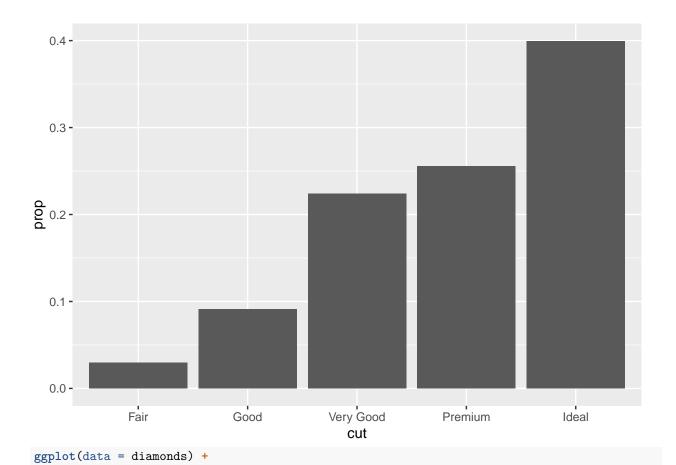
ggplot(data = demo) +
    geom_bar(
     mapping = aes(
          x = a, y = b
     ), stat = "identity"
)</pre>
```



```
ggplot(
  data = diamonds
) +
  geom_bar(
   mapping = aes(
        x = cut, y = ..prop.., group = 1
  )
)
```

```
## Warning: The dot-dot notation (`..prop..`) was deprecated in ggplot2 3.4.0.
## i Please use `after_stat(prop)` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
```

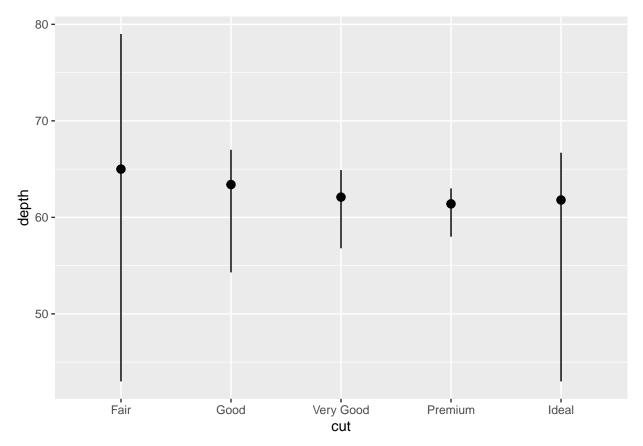
generated.



stat_summary(
 mapping = aes(

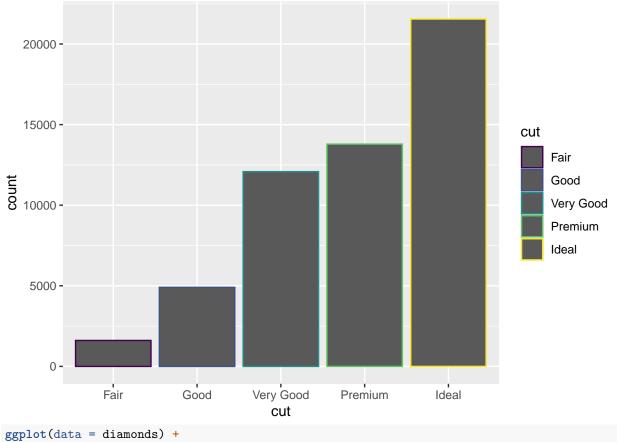
generated.

```
x = cut, y = depth
   ),
   fun.ymin = min,
   fun.ymax = max,
   fun.y = median
 )
## Warning: The `fun.y` argument of `stat_summary()` is deprecated as of ggplot2 3.3.0.
## i Please use the `fun` argument instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
## Warning: The `fun.ymin` argument of `stat_summary()` is deprecated as of ggplot2 3.3.0.
## i Please use the `fun.min` argument instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
## Warning: The `fun.ymax` argument of `stat_summary()` is deprecated as of ggplot2 3.3.0.
## i Please use the `fun.max` argument instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
```

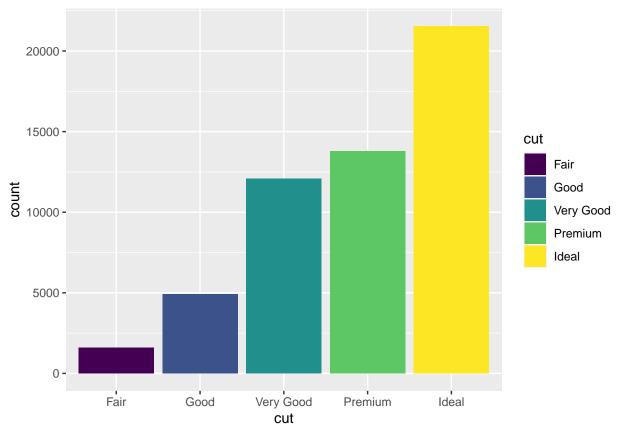


ajustes de posição pg 27

```
ggplot(data = diamonds) +
  geom_bar(
    mapping = aes(
        x = cut, color = cut
    )
)
```

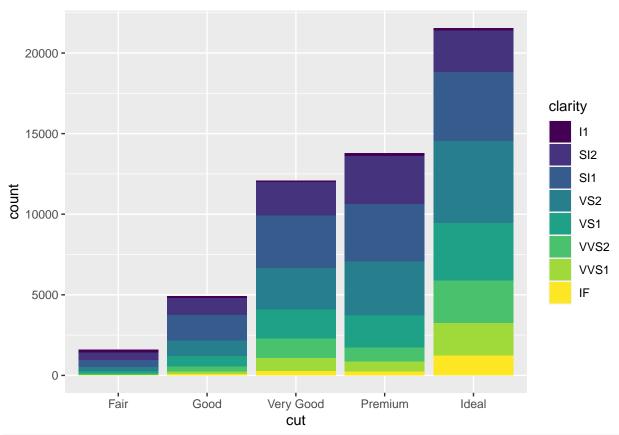


```
ggplot(data = diamonds) +
  geom_bar(
  mapping = aes(
    x = cut, fill = cut
  )
)
```

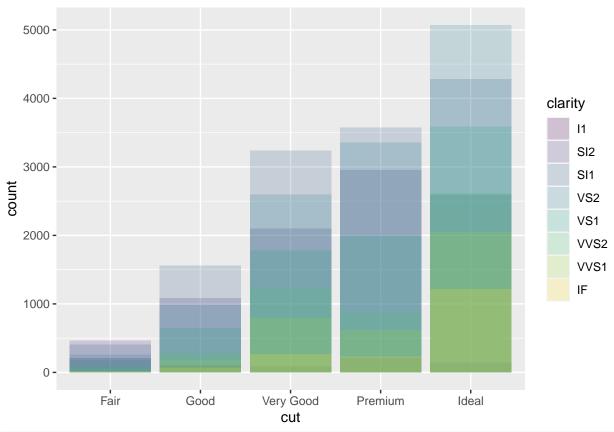


não consigo exibir os dois graficos ao mesmo tempo

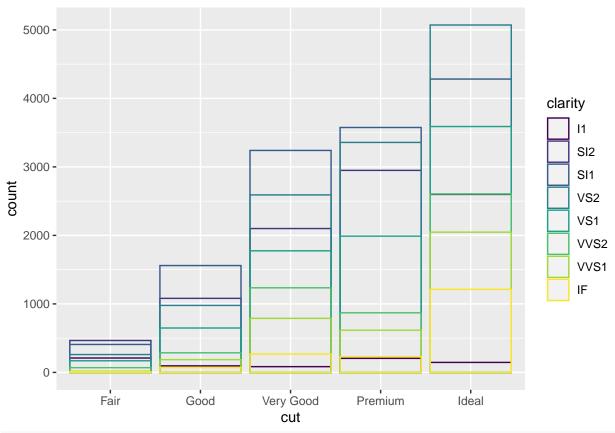
```
ggplot( data = diamonds ) +
  geom_bar(
    mapping = aes(
        x = cut, fill = clarity
  )
)
```



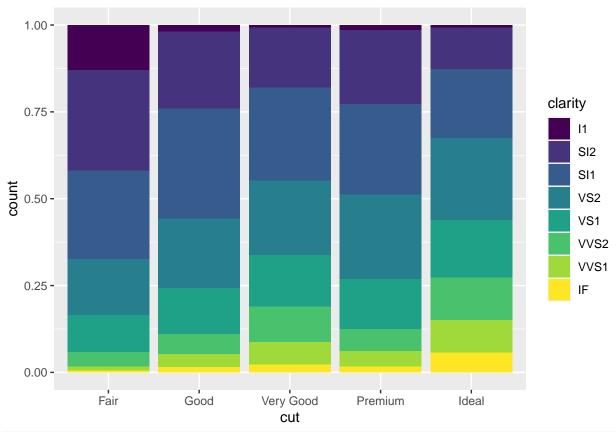
```
ggplot(
  data = diamonds,
  mapping = aes(
    x = cut, fill = clarity
)
) +
  geom_bar(
    alpha = 1/5, position = "identity" #inutil para grafico de barras, pois sobrepõe
)
```



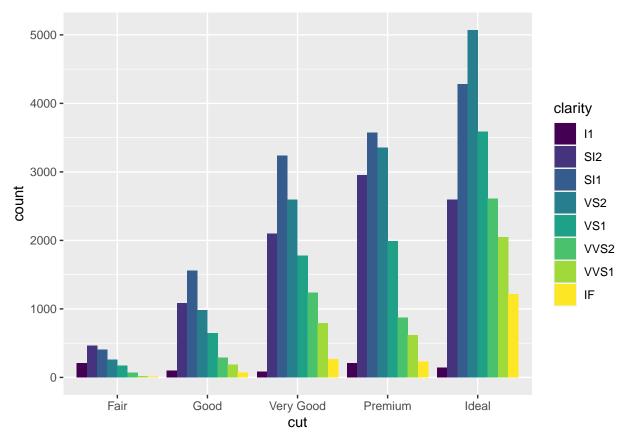
```
ggplot(
  data = diamonds,
  mapping = aes(
    x = cut, color = clarity
)
) +
  geom_bar(
  fill = NA, position = "identity" #fill = NA, torna-o completamente transparente
)
```



```
ggplot(
  data = diamonds
) +
  geom_bar(
   mapping = aes(
      x = cut, fill = clarity
  ), position = "fill" # position fill fica todo preenchido
  #fill funciona como empilhamento da mesma altura, facilita comparar proporções
)
```

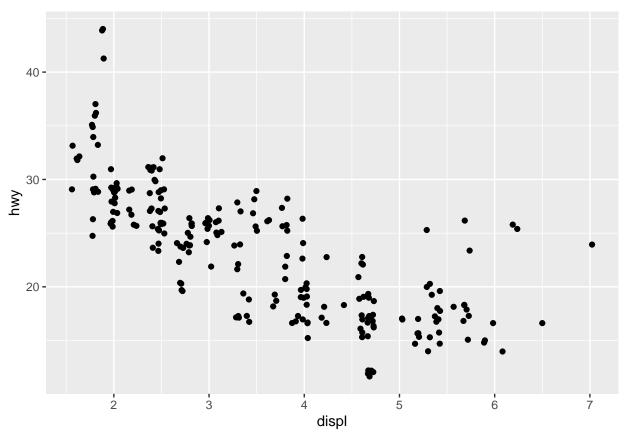


```
ggplot(
  data = diamonds
) +
  geom_bar(
    mapping = aes(
        x = cut, fill = clarity
    ), position = "dodge"
)
```



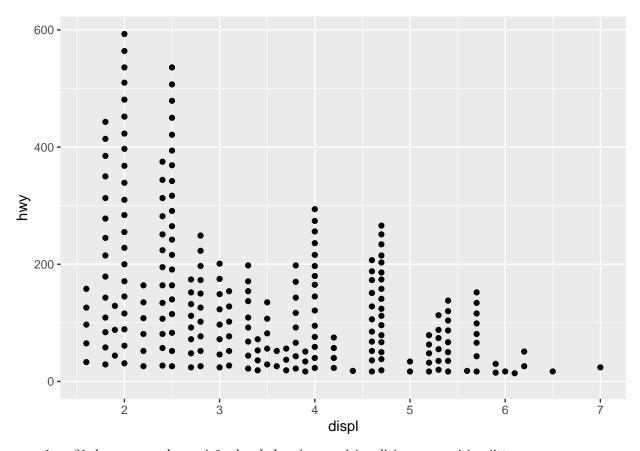
dodge coloca objetos sobrepostos diretamente um ao lado do outro, facilita a comparação de valores individuais

```
ggplot(
  data = mpg
) +
  geom_point(
    mapping = aes(
        x = displ, y = hwy
    ),
    position = "jitter"
)
```



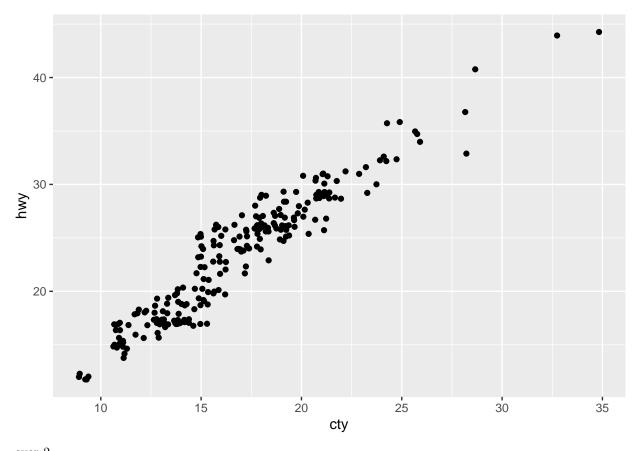
para evitar sobreposição de pontos no gráficos, podemos utilizar o position = jitter pois ele adiciona uma pequena quantidade de ruídos aleatórios a cada ponto, isso espalha os pontos, porque não é provável que dois pontos quaisquer receba a mesma quantidade de ruídos aleatório,

```
ggplot(
  data = mpg
) + geom_point(
  mapping = aes(
    x = displ, y = hwy
),
  position = "stack"
)
```

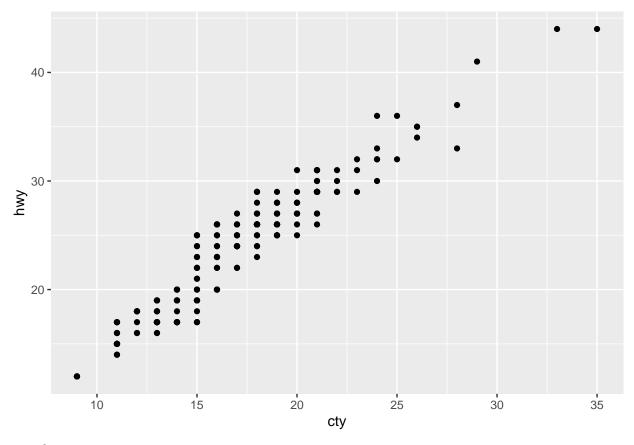


exer 1 pg 31 descreve a sobreposição dos dados, é necessário adicionar o position jitter

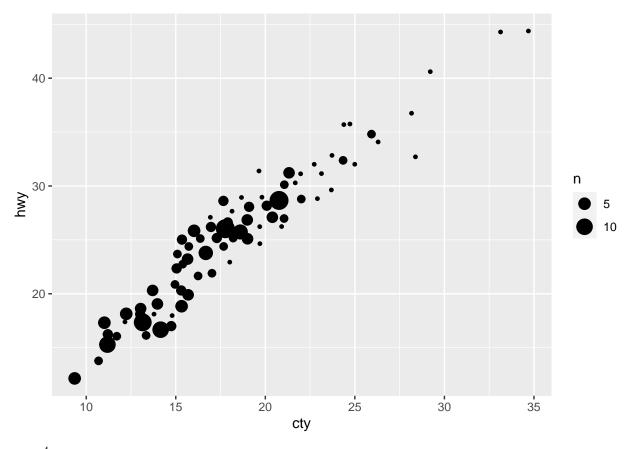
```
ggplot(
  data = mpg, mapping = aes(
    x = cty, y = hwy)) +
  geom_point(
    position = "jitter")
```



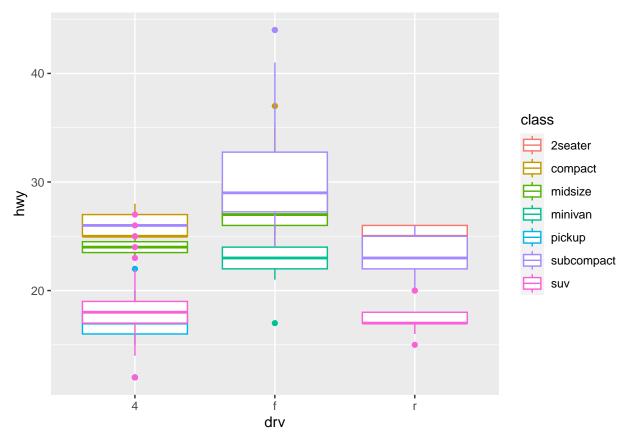
```
exer 2
ggplot(data = mpg, mapping = aes(x = cty, y = hwy)) +
  geom_jitter(height = 0, width = 0)
```



```
exer 3
ggplot(data = mpg, mapping = aes(x = cty, y = hwy)) +
  geom_count(position = "jitter")
```



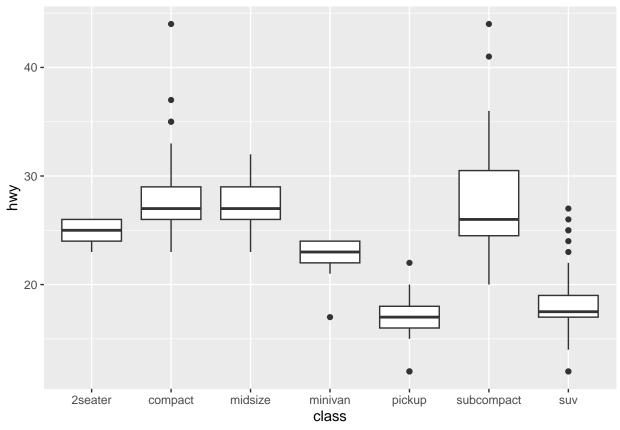
```
exer 4
ggplot(data = mpg, aes(x = drv, y = hwy, colour = class)) +
  geom_boxplot(position = "identity")
```



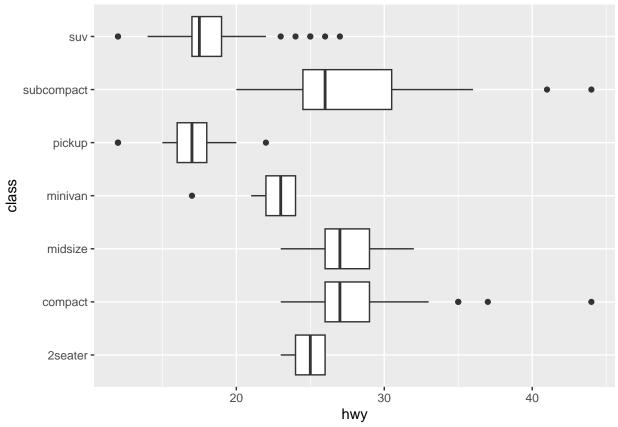
sistemas de coordenadas

 $\operatorname{coord}_\operatorname{flip}()$ troca os eixos x e y, é bom para rótulos longos

```
ggplot(
  data = mpg, mapping = aes(
    x = class, y = hwy
)
) +
  geom_boxplot()
```



```
ggplot(
  data = mpg, mapping = aes(
    x = class, y = hwy
)
) +
  geom_boxplot() +
  coord_flip()
```



<pre>nz <- map_data("nz")</pre>	
nz	

##		long	lat	group	order	region s	ubregion
##	1	172.7433	-34.44215	1	1	North.Island	<na></na>
##	2	172.7983	-34.45562	1	2	North.Island	<na></na>
##	3	172.8528	-34.44846	1	3	North.Island	<na></na>
##	4	172.8986	-34.41786	1	4	North.Island	<na></na>
##	5	172.9593	-34.42503	1	5	North.Island	<na></na>
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##	7	173.0229	-34.44662	1	7	North.Island	<na></na>
##	8	173.0184	-34.49343	1	8	North.Island	<na></na>
##	9	172.9616	-34.50426	1	9	North.Island	<na></na>
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##	11	172.9353	-34.52225	1	11	North.Island	<na></na>
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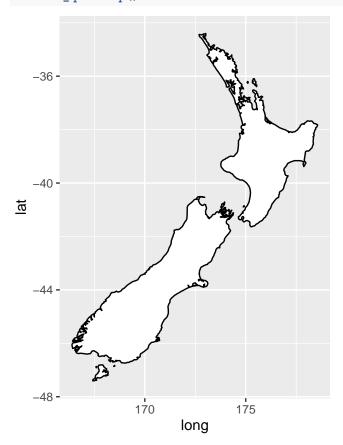
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шш	1070	107 1005	47 40570	2	1070	C++ T-11	< NT A >
			-47.40573	3	1376	Stewart.Island	<na></na>
			-47.38412	3	1377	Stewart.Island	<na></na>
			-47.37605	3	1378	Stewart.Island	<na></na>
			-47.36075	3	1379	Stewart.Island	<na></na>
			-47.32202	3	1380	Stewart.Island	<na></na>
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##	1382	167.7133	-47.29503	3	1382	Stewart.Island	<na></na>
##	1383	167.7832	-47.29864	3	1383	Stewart.Island	<na></na>
##	1384	167.8514	-47.27882	3	1384	Stewart.Island	<na></na>
##	1385	167.9127	-47.24644	3	1385	Stewart.Island	<na></na>
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##	1387	168.0319	-47.21946	3	1387	Stewart.Island	<na></na>
##	1388	168.1012	-47.21946	3	1388	Stewart.Island	<na></na>
##	1389	168.0480	-47.19247	3	1389	Stewart.Island	<na></na>
##	1390	168.1156	-47.20502	3	1390	Stewart.Island	<na></na>
			-47.19247	3	1391	Stewart.Island	<na></na>
			-47.16365	3	1392	Stewart.Island	<na></na>
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			-47.03766	3	1395	Stewart.Island	<na></na>
			-47.07725	3	1396	Stewart.Island	<na></na>
			-47.09346	3	1397	Stewart.Island	<na></na>
			-47.05926	3	1398	Stewart.Island	<na></na>
			-47.05926 -47.05026	3	1399	Stewart.Island	
							<na></na>
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##	1414	175.5359	-36.39153	4	1414	Great.Barrier.Island	<na></na>
##	1415	175.5520	-36.34116	4	1415	Great.Barrier.Island	<na></na>
##	1416	175.5038	-36.30335	4	1416	Great.Barrier.Island	<na></na>
##	1417	175.4947	-36.25654	4	1417	Great.Barrier.Island	<na></na>
##	1418	175.5107	-36.21156	4	1418	Great.Barrier.Island	<na></na>
##	1419	175.4609	-36.18996	4	1419	Great.Barrier.Island	<na></na>
##	1420	175.4460	-36.13954	4	1420	Great.Barrier.Island	<na></na>
##	1421	175.4202	-36.09273	4	1421	Great.Barrier.Island	<na></na>
##	1422	175.3646	-36.10356	4	1422	Great.Barrier.Island	<na></na>
##	1423	175.3663	-36.15037	4	1423	Great.Barrier.Island	<na></na>
##	1424	175.3245	-36.18097	4	1424	Great.Barrier.Island	<na></na>
##	1425	175.3749	-36.21156	4	1425	Great.Barrier.Island	<na></na>
##	1426	175.3239	-36.23494	4	1426	Great.Barrier.Island	<na></na>
			-36.26915	4	1427	Great.Barrier.Island	<na></na>
			-36.28536	4	1428	Great.Barrier.Island	<na></na>
##	1429	175.4511	-36.33217	4	1429	Great.Barrier.Island	<na></na>
			-36.35377	4	1430	Great.Barrier.Island	<na></na>

```
## 1431 175.5359 -36.39153
                                    1431
                                           Great.Barrier.Island
                                                                        <NA>
## 1433 166.4769 -45.88836
                                 5
                                    1433
                                              Resolution. Island
                                                                        <NA>
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## 1434 166.5164 -45.84877
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                                                                        <NA>
## 1435 166.5468 -45.88836
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  1436 166.5726 -45.93334
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                                    1436
                                              Resolution. Island
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## 1437 166.6150 -45.89197
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## 1438 166.6677 -45.91535
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## 1439 166.6946 -45.87123
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## 1440 166.6849 -45.82264
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## 1441 166.6642 -45.77583
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  1442 166.5984 -45.78752
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                                    1443
## 1443 166.5319 -45.80374
                                              Resolution. Island
                                                                        <NA>
  1444 166.4861 -45.84155
                                 5
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## 1445 166.4494 -45.88114
                                 5
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                                              Resolution. Island
                                                                        <NA>
                                    1446
                                              Resolution. Island
## 1446 166.4185 -45.92257
                                 5
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## 1447 166.4740 -45.89197
                                 5
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                                              Resolution. Island
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                                    1448
  1448 166.4769 -45.88836
                                              Resolution. Island
                                                                        <NA>
   1450 175.0999 -36.19627
                                    1450 Little.Barrier.Island
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## 1451 175.0638 -36.23225
                                 6
                                    1451 Little.Barrier.Island
                                                                        <NA>
## 1452 175.1051 -36.26462
                                 6
                                    1452 Little.Barrier.Island
                                                                        <NA>
  1453 175.1228 -36.21787
                                 6
                                    1453 Little.Barrier.Island
                                                                        <NA>
## 1454 175.0999 -36.19627
                                    1454 Little.Barrier.Island
                                                                        <NA>
                                 7
                                    1456
## 1456 173.9064 -40.84925
                                               D'Urville. Island
                                                                        <NA>
                                 7
                                    1457
## 1457 173.9391 -40.80422
                                               D'Urville.Island
                                                                        <NA>
## 1458 173.9529 -40.75747
                                    1458
                                               D'Urville. Island
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  1459 173.9546 -40.70882
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                                               D'Urville.Island
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  1460 173.9242 -40.75025
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   1461 173.9036 -40.79706
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                                               D'Urville. Island
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## 1462 173.8577 -40.76646
                                               D'Urville. Island
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## 1463 173.8085 -40.79522
                                    1463
                                               D'Urville.Island
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## 1464 173.8113 -40.84387
                                 7
                                    1464
                                               D'Urville.Island
                                                                        <NA>
   1465 173.7701 -40.88346
                                 7
                                    1465
                                               D'Urville. Island
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   1466 173.7752 -40.92844
                                    1466
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  1467 173.8325 -40.91405
                                    1467
                                               D'Urville. Island
                                                                        <NA>
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                                    1468
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                                               D'Urville. Island
                                                                        <NA>
## 1471 174.2599 -41.20925
                                    1471
                                                 Arapawa. Island
                                                                        <NA>
## 1472 174.1975 -41.22546
                                 8
                                    1472
                                                                        <NA>
                                                 Arapawa. Island
## 1473 174.2531 -41.24884
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                                                 Arapawa. Island
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## 1474 174.3029 -41.21824
                                 8
                                    1474
                                                 Arapawa. Island
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                                    1475
                                                 Arapawa. Island
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## 1476 174.3831 -41.15882
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  1477 174.3929 -41.11385
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                                                 Arapawa. Island
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## 1478 174.3373 -41.13544
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                                                 Arapawa.Island
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## 1479 174.3407 -41.18764
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## 1480 174.2783 -41.19303
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  1484 175.0552 -36.83076
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## 1485 175.0925 -36.86852
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  1486 175.1492 -36.87757
                                    1486
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## 1487 175.1767 -36.83345
                                 9
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## 1488 175.2139 -36.79747
                                 9
                                    1488
                                                 Waiheke. Island
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## 1489 175.1486 -36.79472
                                    1489
                                                 Waiheke. Island
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```

##			-36.81632	9	1490	Waiheke.Island	<na></na>
##			-36.80555	9	1491	Waiheke.Island	<na></na>
##			-36.79655	9	1492	Waiheke.Island	<na></na>
##			-37.69747	10	1494	Matakana.Island	<na></na>
##	1495	176.1307	-37.65966	10	1495	Matakana.Island	<na></na>
##	1496	176.0888	-37.62545	10	1496	Matakana.Island	<na></na>
##	1497	176.0550	-37.58764	10	1497	Matakana.Island	<na></na>
##	1498	176.0172	-37.54804	10	1498	Matakana.Island	<na></na>
##	1499	176.0281	-37.59846	10	1499	Matakana.Island	<na></na>
##	1500	176.0705	-37.63267	10	1500	Matakana.Island	<na></na>
##	1501	176.0860	-37.67765	10	1501	Matakana.Island	<na></na>
##	1502	176.1467	-37.69025	10	1502	Matakana.Island	<na></na>
##	1503	176.1656	-37.69747	10	1503	Matakana.Island	<na></na>
##	1505	166.9702	-45.45182	11	1505	Secretary.Island	<na></na>
##	1506	166.9542	-45.40862	11	1506	Secretary.Island	<na></na>
##	1507	166.9249	-45.36903	11	1507	Secretary.Island	<na></na>
##	1508	166.9381	-45.32045	11	1508	Secretary.Island	<na></na>
##	1509	166.8785	-45.35104	11	1509	Secretary.Island	<na></na>
##	1510	166.8482	-45.39424	11	1510	Secretary.Island	<na></na>
##	1511	166.8826	-45.43383	11	1511	Secretary.Island	<na></na>
##	1512	166.9416	-45.45544	11	1512	Secretary.Island	<na></na>
##	1513	166.9702	-45.45182	11	1513	Secretary.Island	<na></na>
##	1515	166.7336	-45.91626	12	1515	Long.Island	<na></na>
##	1516	166.6688	-45.92796	12	1516	Long.Island	<na></na>
##	1517	166.6018	-45.94595	12	1517	Long.Island	<na></na>
##	1518	166.6723	-45.94417	12	1518	Long.Island	<na></na>
##	1519	166.7307	-45.91626	12	1519	Long.Island	<na></na>
##	1520	166.7336	-45.91626	12	1520	Long.Island	<na></na>
##	1522	174.8891	-36.47615	13	1522	Kawau.Island	<na></na>
##	1523	174.8701	-36.42934	13	1523	Kawau.Island	<na></na>
##	1524	174.8237	-36.45455	13	1524	Kawau.Island	<na></na>
##	1525	174.8828	-36.47432	13	1525	Kawau.Island	<na></na>
##	1526	174.8891	-36.47615	13	1526	Kawau.Island	<na></na>
##	1528	174.8461	-36.82984	14	1528	Rangitoto.Island	<na></na>
##	1529	174.9045	-36.82354	14	1529	Rangitoto.Island	<na></na>
##	1530	174.8679	-36.78842	14	1530	Rangitoto.Island	<na></na>
##	1531	174.8484	-36.83162	14	1531	Rangitoto.Island	<na></na>
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			-36.79999	16	1539	Motutapu.Island	<na></na>
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			-36.73055	16	1541	Motutapu.Island	<na></na>
			-36.77082	16	1542	Motutapu.Island	<na></na>
			-36.79999	16	1543	Motutapu.Island	<na></na>
			-40.84742	17	1545	Kapiti.Island	<na></na>
			-40.89246	17	1546	Kapiti.Island	<na></na>
			-40.87263	17	1547	Kapiti.Island	<na></na>
			-40.84742	17	1548	Kapiti.Island	<na></na>
			-41.25697	18	1550	Rabbit.Island	<na></na>
			-41.28573	18	1551	Rabbit.Island	<na></na>
			-41.25875	18	1552	Rabbit.Island	<na></na>
	1002	1.0.1100	11.20010	10	1002	itasbio.ibiana	VIII/

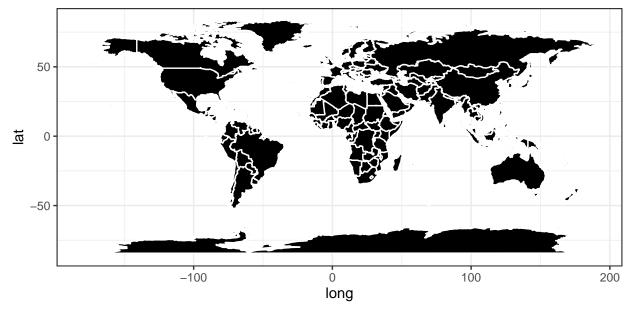
```
## 1553 173.1163 -41.25697
                               18 1553
                                                 Rabbit.Island
                                                                      <NA>
## 1555 167.5798 -46.87385
                               19
                                   1555
                                                Codfish.Island
                                                                      <NA>
                                                Codfish.Island
## 1556 167.5965 -46.91705
                                   1556
                                                                      <NA>
                                                Codfish.Island
## 1557 167.6171 -46.87024
                                   1557
                                                                      <NA>
                               19
## 1558 167.5798 -46.87385
                               19
                                   1558
                                                Codfish.Island
                                                                      <NA>
## 1560 168.5052 -46.82704
                               20
                                   1560
                                                Ruapuke. Island
                                                                      <NA>
## 1561 168.4576 -46.86485
                               20
                                   1561
                                                Ruapuke. Island
                                                                      <NA>
## 1562 168.5195 -46.84686
                               20
                                   1562
                                                Ruapuke.Island
                                                                      <NA>
## 1563 168.5052 -46.82704
                               20
                                   1563
                                                Ruapuke.Island
                                                                      <NA>
## 1565 166.5800 -46.31315
                               21
                                   1565
                                                   Coal.Island
                                                                      <NA>
## 1566 166.6282 -46.27895
                               21
                                   1566
                                                   Coal.Island
                                                                      <NA>
## 1567 166.5754 -46.30954
                               21
                                   1567
                                                   Coal.Island
                                                                      <NA>
                                                   Coal.Island
## 1568 166.5800 -46.31315
                               21
                                   1568
                                                                      <NA>
## 1570 166.4580 -45.93695
                               22
                                  1570
                                                 Anchor.Island
                                                                      <NA>
## 1571 166.5279 -45.93872
                               22
                                   1571
                                                 Anchor.Island
                                                                      <NA>
## 1572 166.4608 -45.93512
                               22
                                   1572
                                                 Anchor.Island
                                                                      <NA>
## 1573 166.4580 -45.93695
                               22 1573
                                                 Anchor.Island
                                                                      <NA>
ggplot(nz, aes(
  long, lat, group = group
)) +
  geom_polygon(fill = "white", color = "black") +
  coord_quickmap()
```



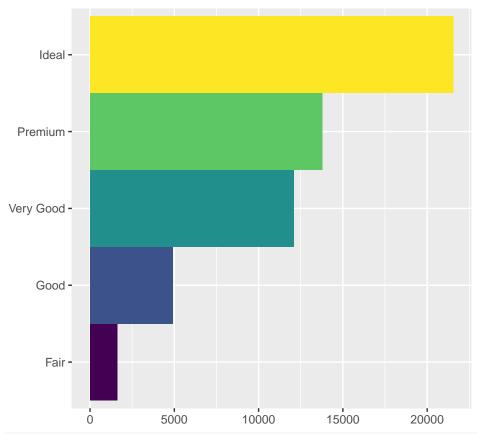
coord_quickmap configura a proporção de tela corretamente

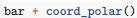
```
world <- map_data("world")
ggplot(world, aes(</pre>
```

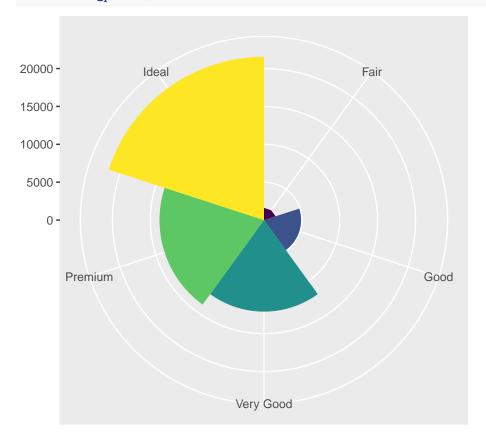
```
long, lat, group = group
)) +
geom_polygon(fill = "black", color = "white") +
coord_quickmap() + theme_bw()
```



```
bar <- ggplot(data = diamonds) +
  geom_bar(
    mapping = aes(
        x = cut, fill = cut
    ), show.legend = FALSE,
    width = 1
) +
  theme(aspect.ratio = 1) +
  labs(x = NULL, y = NULL)</pre>
bar + coord_flip()
```

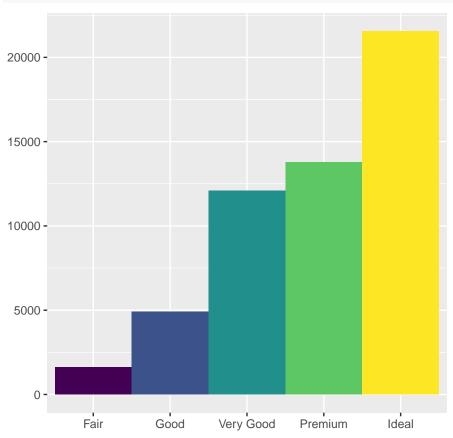






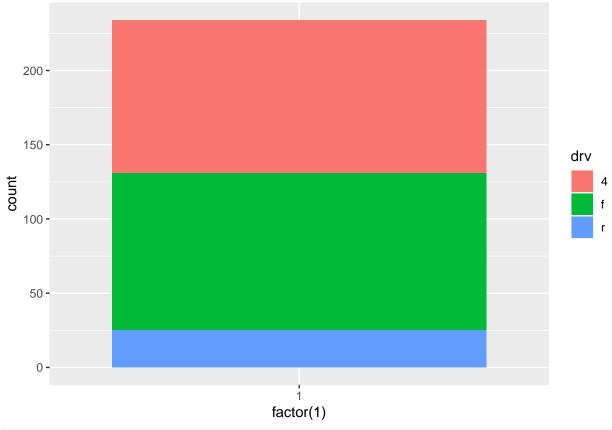
 coord _polar usa coordenadas polares, que revelam uma conex $\tilde{\operatorname{ao}}$ interessante entre um gráfico de barras e gráfico de setores.



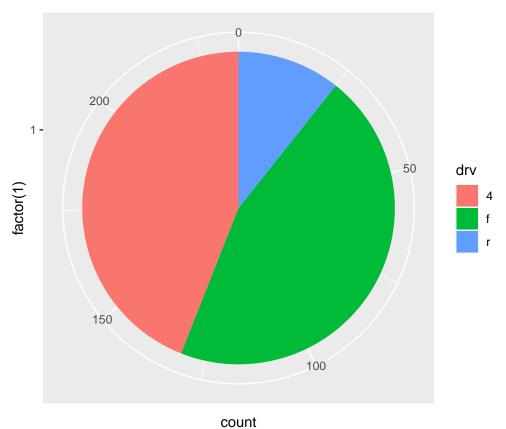


 $\mathrm{exer}\ 1\ \mathrm{pg}\ 33$

```
ggplot(
  mpg, aes(
    x = factor(1), fill = drv
)
) +
  geom_bar()
```



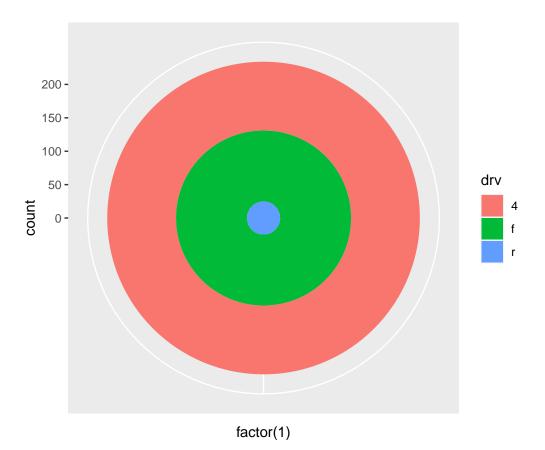
```
ggplot(
  mpg, aes(
    x = factor(1), fill = drv
)
) +
  geom_bar(width = 1) +
  coord_polar(theta = "y")
```



o argumento theta=y é o angulo de inicio da secção

se deixar em branco

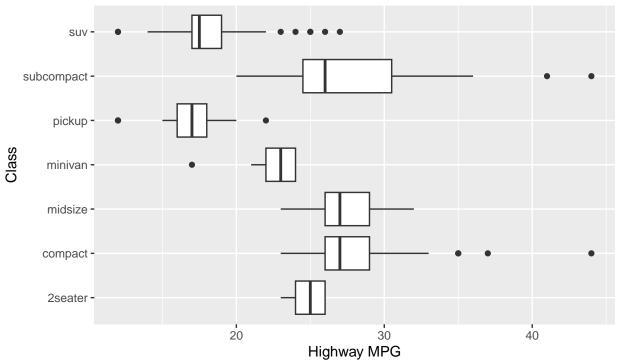
```
ggplot(
  mpg, aes(
    x = factor(1), fill = drv
)
) +
  geom_bar(width = 1) +
  coord_polar()
```



 $\mbox{exer2}$ labs adicionda titulos, titulos plots, capitulos

```
ggplot(
  data = mpg,
  mapping = aes(
    x = class, y = hwy
)
) +
  geom_boxplot() +
  coord_flip() +
  labs(y = "Highway MPG",
    x = "Class",
    title = "Higway MPG by car class",
    subtitle = "1999-2008",
    caption = "Source: http://fueleconomy.gov")
```

Higway MPG by car class 1999–2008



Source: http://fueleconomy.gov

exer 3 coord_quickmap X coord_map — se pegarmos o mapa da NZ.

nz nz	<- ma	ap_data("n	ız")			
##		long	lat	group	order	region subregion
##	1	0	-34.44215			North.Island <na></na>
##			-34.45562		-	North.Island <na></na>
##			-34.44846		3	North.Island <na></na>
##			-34.41786		4	North.Island <na></na>
##			-34.42503			North.Island <na></na>
##			-34.39895			North.Island <na></na>
##			-34.44662		7	North.Island <na></na>
##			-34.49343			North.Island <na></na>
##	9		-34.50426		9	North.Island <na></na>
##	10	172.9181	-34.47367	1	10	North.Island <na></na>
##	11	172.9353	-34.52225	1	11	North.Island <na></na>
##	12	172.8808	-34.51504	1	12	North.Island <na></na>
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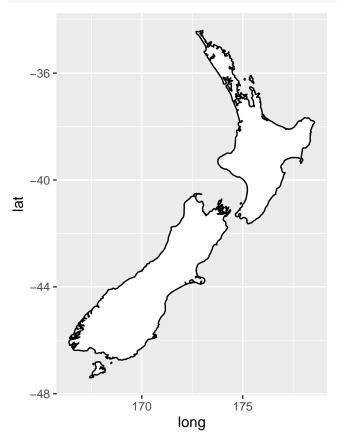
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##	1422	175.3646	-36.10356	4	1422	Great.Barrier.Island	<na></na>
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##	1424	175.3245	-36.18097	4	1424	Great.Barrier.Island	<na></na>
			-36.21156	4	1425	Great.Barrier.Island	<na></na>
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			-36.28536	4	1428	Great.Barrier.Island	<na></na>
			-36.33217	4	1429	Great.Barrier.Island	<na></na>
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## 1430 175.5056 -36.35377
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## 1431 175.5359 -36.39153
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## 1437 166.6150 -45.89197
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  1439 166.6946 -45.87123
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## 1440 166.6849 -45.82264
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  1441 166.6642 -45.77583
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## 1442 166.5984 -45.78752
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## 1444 166.4861 -45.84155
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                                              Resolution. Island
## 1445 166.4494 -45.88114
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## 1446 166.4185 -45.92257
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## 1463 173.8085 -40.79522
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## 1469 173.9064 -40.84925
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## 1487 175.1767 -36.83345
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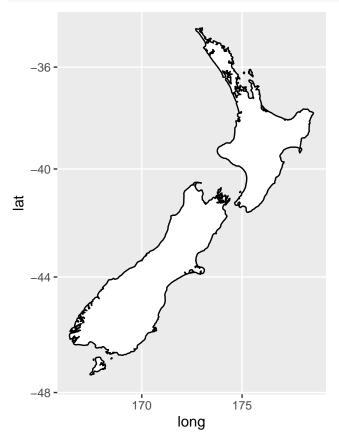
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##	1522	174.8891	-36.47615	13	1522	Kawau.Island	<na></na>
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##	1528	174.8461	-36.82984	14	1528	Rangitoto.Island	<na></na>
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##	1001	113.1113	±1.20013	10	1001	mappit.isiand	\NA/

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## 1553 173.1163 -41.25697
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## 1570 166.4580 -45.93695
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## 1573 166.4580 -45.93695
                                   1573
                                                 Anchor.Island
                                                                      <NA>
ggplot(nz, aes(
  long, lat, group = group
)) +
  geom_polygon(fill = "white", color = "black") +
  coord_quickmap()
```



quickmap mantém a porporção correta dos mapas.

```
ggplot(nz, aes(
  long, lat, group = group
)) +
  geom_polygon(fill = "white", color = "black") +
  coord_map()
```



 coord map utiliza-se mapas de projeção de 3 dimensões.. projeção de mercator

 coord _quickmap é a plotagem mais rapida, porem ela ignora a curvatura da terra e ajusta o mapa para lat/long ratio

$\mathrm{exer}\ 4$

```
p<- ggplot(
  data = mpg, mapping = aes(
    x = cty, y = hwy
)
) + geom_point() +
  geom_abline()

p + coord_fixed()</pre>
```

