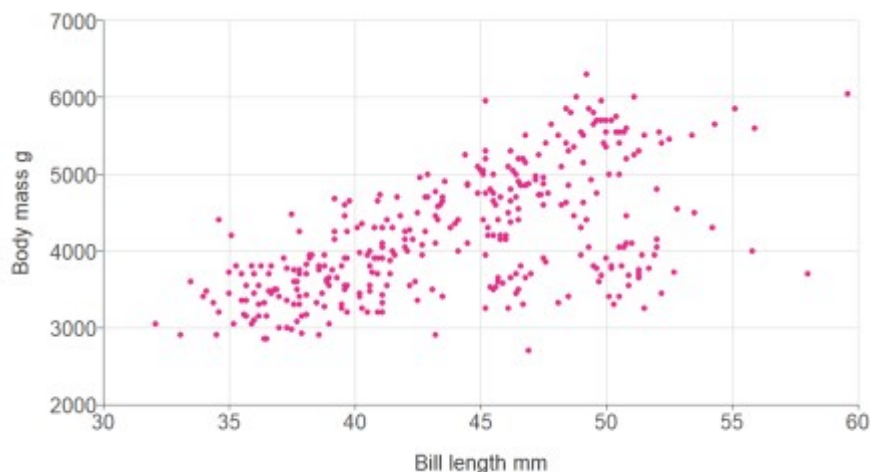


## 1. Always define the colours to use via the `pal` argument

The colour palette can be changed from the default viridis colours by providing a character vector of hex codes to the `pal` argument.

```
gg_point(penguins, bill_length_mm, body_mass_g, pal = "#e7298a")
```

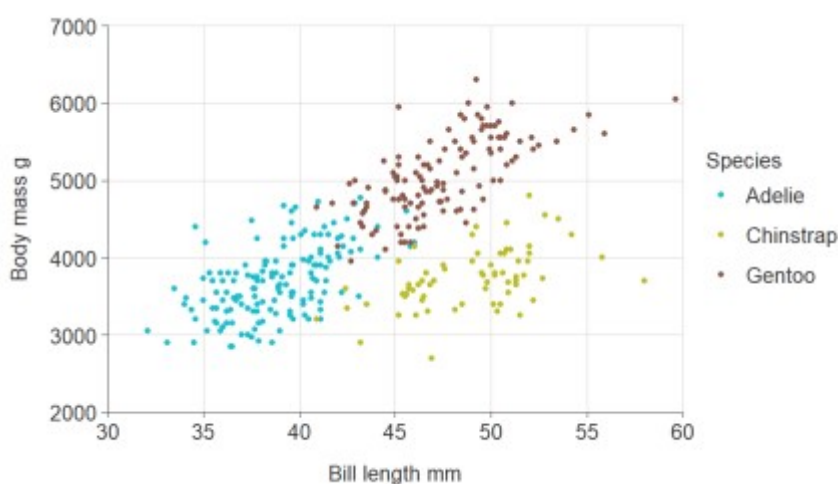


Users can get access to a large amount of colour palettes through the `pals` package.

## 2. If colouring by a variable, use a `*_col()` or `*_col_facet()` function, and define the `col_var`

To colour by a variable, use a `*_col()` function and then define that variable to be coloured using the `col_var` argument.

```
gg_point_col(penguins, bill_length_mm, body_mass_g, species)
```



## 3. For `gg_sf_col*`() and `gg_point_col*`() functions where colouring by a numeric variable, also define the `col_method` and `col_cuts`

All `simplevis *_col()` and `*_col_facet()` functions support colouring by a categorical variable.

In addition, `sf` and `point *_col()` and `*_col_facet()` functions support colouring by a numeric variable.

You do this by specifying whether you want to do this by:

- defining whether the `col_method` is to be by `bin` or `quantile`
- defining a vector or `col_cuts`. These should be between 0 and infinity (`Inf`) for `bin` and between 0 and 1 for `quantile`

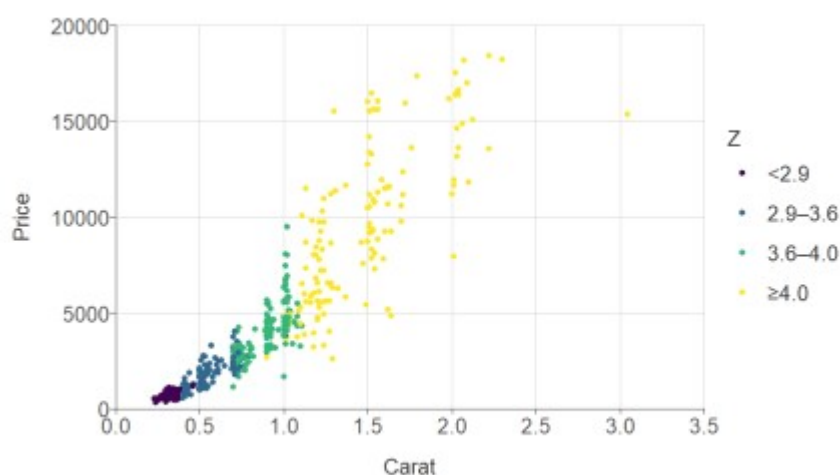
```
plot_data <- ggplot2::diamonds %>%
  slice_sample(prop = 0.01)
```

```
plot_data
```

```
#> # A tibble: 539 x 10
```

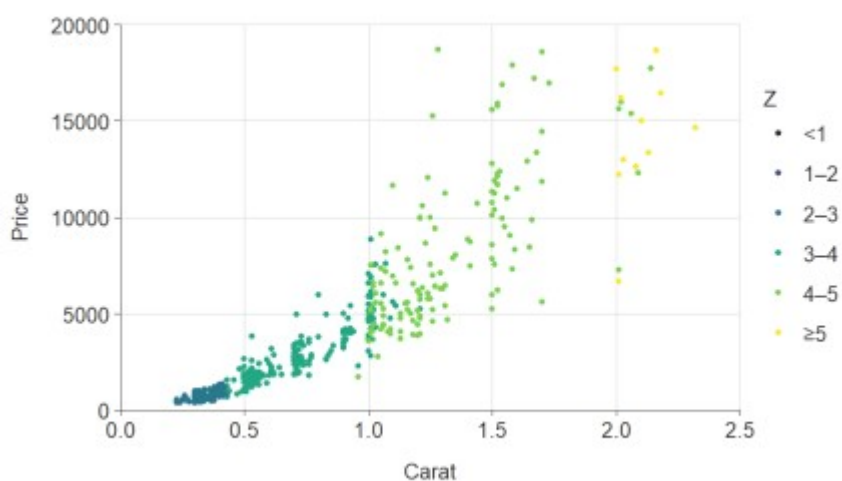
```
#>   carat cut      color clarity depth table price      x      y      z
#>   <dbl> <ord>    <ord> <ord>   <dbl> <dbl> <int> <dbl> <dbl> <dbl>
#> 1  1.22 Ideal    E     VS1    62.4   54 10622  6.77  6.88  4.26
#> 2  0.56 Premium D     SI1    61     60 1605   5.28  5.25  3.21
#> 3  0.33 Very Good E     VS1    58.3   62   886   4.49  4.57  2.64
#> 4  0.52 Premium D     SI1    61.5   55 1651   5.21  5.19   3.2
#> 5  1.02 Very Good F     VS1    62.8   58 7539   6.4   6.44  4.03
#> 6  1.52 Good     F     VS2    64.2   59 11696  7.16  7.2   4.61
#> 7  0.37 Ideal    F     VS1    61.1   56   846   4.64  4.65  2.84
#> 8  0.83 Ideal    G     VS1    62.1   55 4989   6.02  6.05  3.75
#> 9  0.32 Ideal    F     VS1    61.6   57   716   4.39  4.42  2.71
#> 10 1.06 Premium D     SI2    61.6   61 4903   6.59  6.53  4.04
#> # ... with 529 more rows
```

```
gg_point_col(plot_data,
             x_var = carat,
             y_var = price,
             col_var = z,
             col_method = "quantile",
             col_cuts = c(0, 0.25, 0.5, 0.75, 1))
```



```
gg_point_col(plot_data,
             x_var = carat,
             y_var = price,
```

```
col_var = z,  
col_method = "bin",  
col_cuts = c(0, 1, 2, 3, 4, 5, Inf))
```



## Further information

More blogs to come on `simplevis`. In the meantime, see the vignette and articles on the [simplevis website](#).