

# Intro to R

Data Visualization with Esquisse

# Esquisse Package

```
#install.packages("esquisse")  
library(esquisse)
```

# Esquisse Package

The [esquisse package](#) is helpful for getting used to creating plots in R.

It is an interactive tool to help you in RStudio.

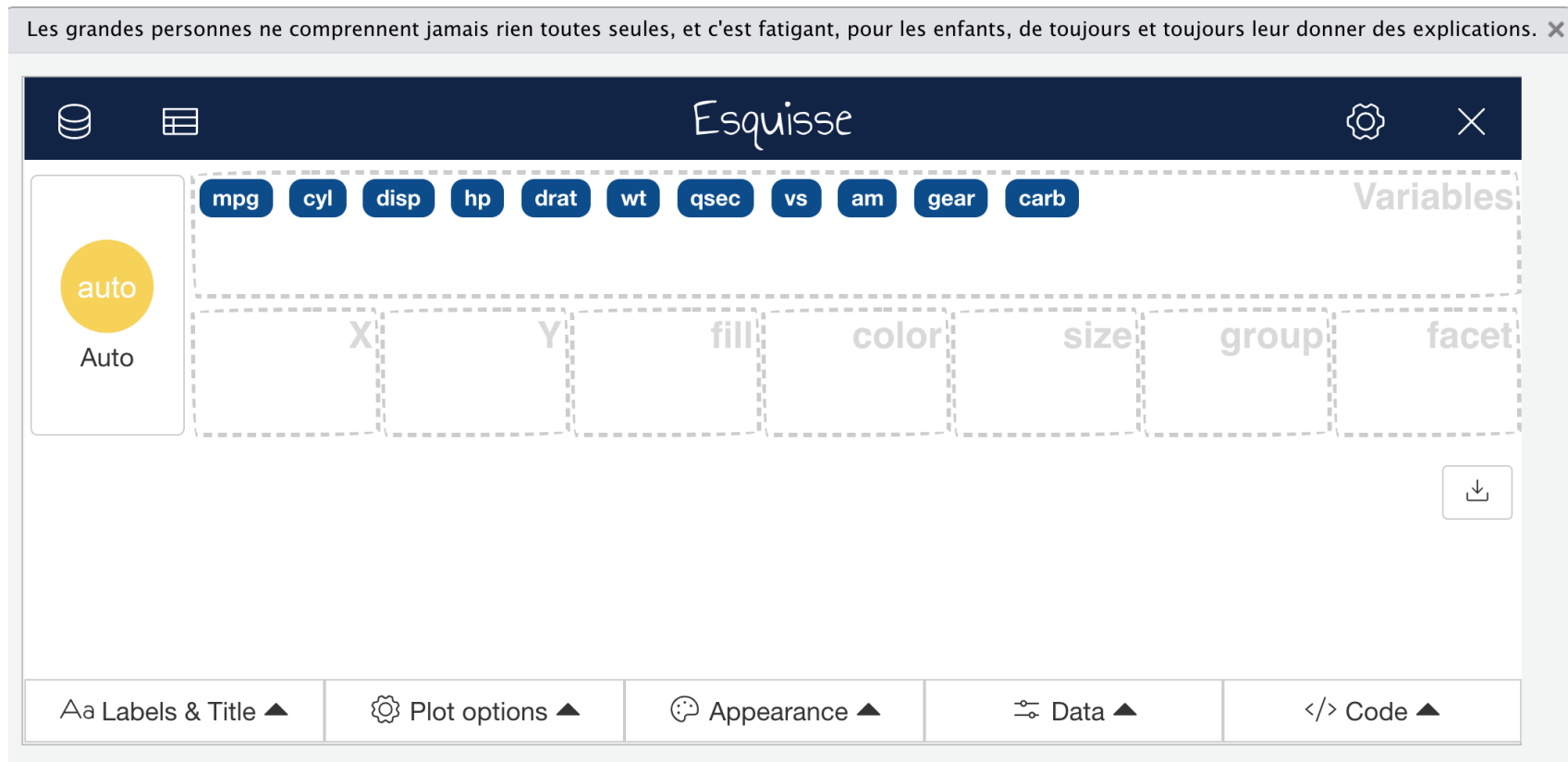
It's super **nifty!**



# Starting a plot

Using the `esquisser()` function you can start creating a plot for a `data.frame` or `tibble`.

```
esquisser(mtcars)
```



# Select Variables

To select variables you can drag and drop variables to the respective axis that you would like the variable to be plotted on.

The screenshot shows the Tableau 'Esquisse' (Sketch) interface. At the top, there is a title bar with the text 'Esquisse' and a close button. Below the title bar, there is a 'Variables' section with a list of variables: mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, and carb. To the left of this list is a data source icon labeled 'auto' and 'Auto'. Below the variables list, there are several axes and properties: X, Y, fill, color, size, group, and facet. A download button is located in the bottom right corner of the main workspace. At the bottom of the interface, there is a navigation bar with five tabs: 'Aa Labels & Title', 'Plot options', 'Appearance', 'Data', and 'Code'.

## Find code

To select variables you can drag and drop variables to the respective axis that you would like the variable to be plotted on.

The screenshot shows the 'Esquisse' interface with a title bar containing the text 'Les grandes personnes ne comprennent jamais rien toutes seules, et c'est fatigant, pour les enfants, de toujours et toujours leur donner des explications. X'. The main workspace is divided into several sections:

- Variables:** A row of buttons containing the variable names: mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, carb.
- Plot Configuration:** A row of boxes for mapping variables to plot aesthetics. The 'X' axis is mapped to 'mpg' and the 'Y' axis is mapped to 'cyl'. Other aesthetics like 'fill', 'color', 'size', 'group', and 'facet' are currently empty.
- Plot Area:** A scatter plot showing a positive correlation between 'mpg' and 'cyl'. The y-axis is labeled '0' at the top and '7' at the bottom. A download icon is visible in the top right corner of the plot area.
- Bottom Panel:** A navigation bar with five tabs: 'Aa Labels & Title', 'Plot options', 'Appearance', 'Data', and 'Code'. The 'Code' tab is currently selected and highlighted.

# Change plot type

`esquisse` automatically assumes a plot type, but you might want to change this.



# Add Facets

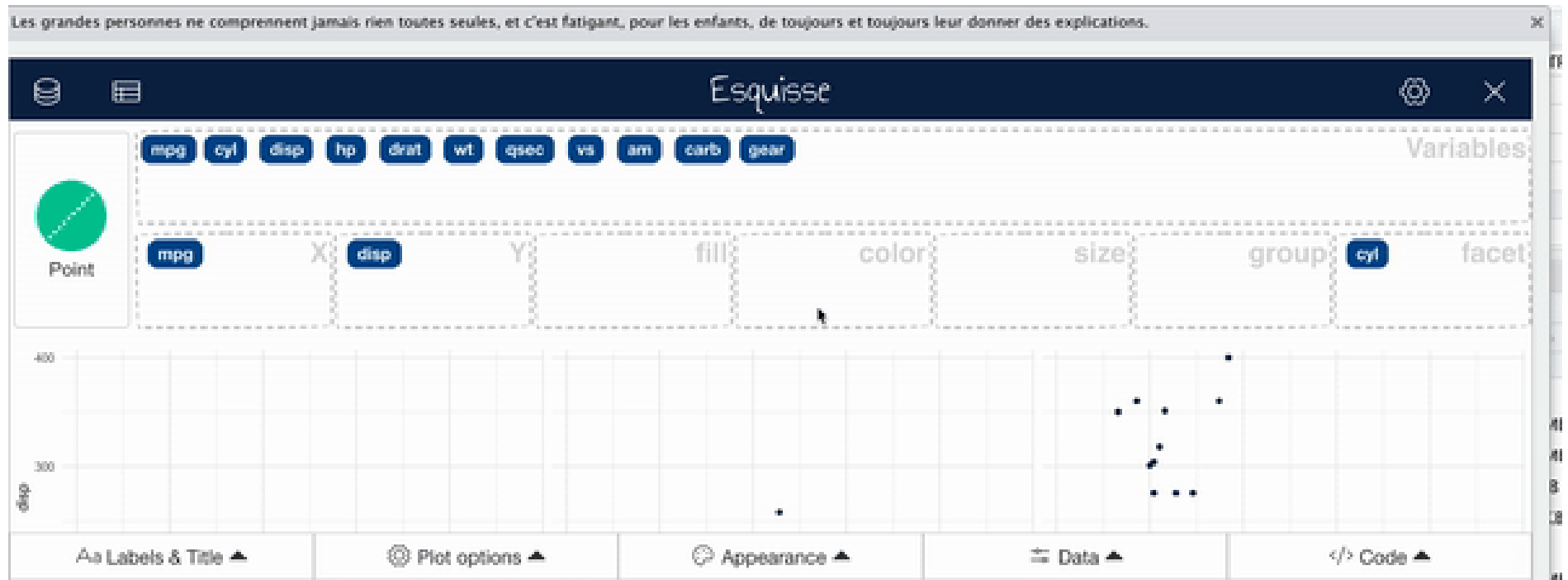
Facets create multiple plots based on the different values of a variable.





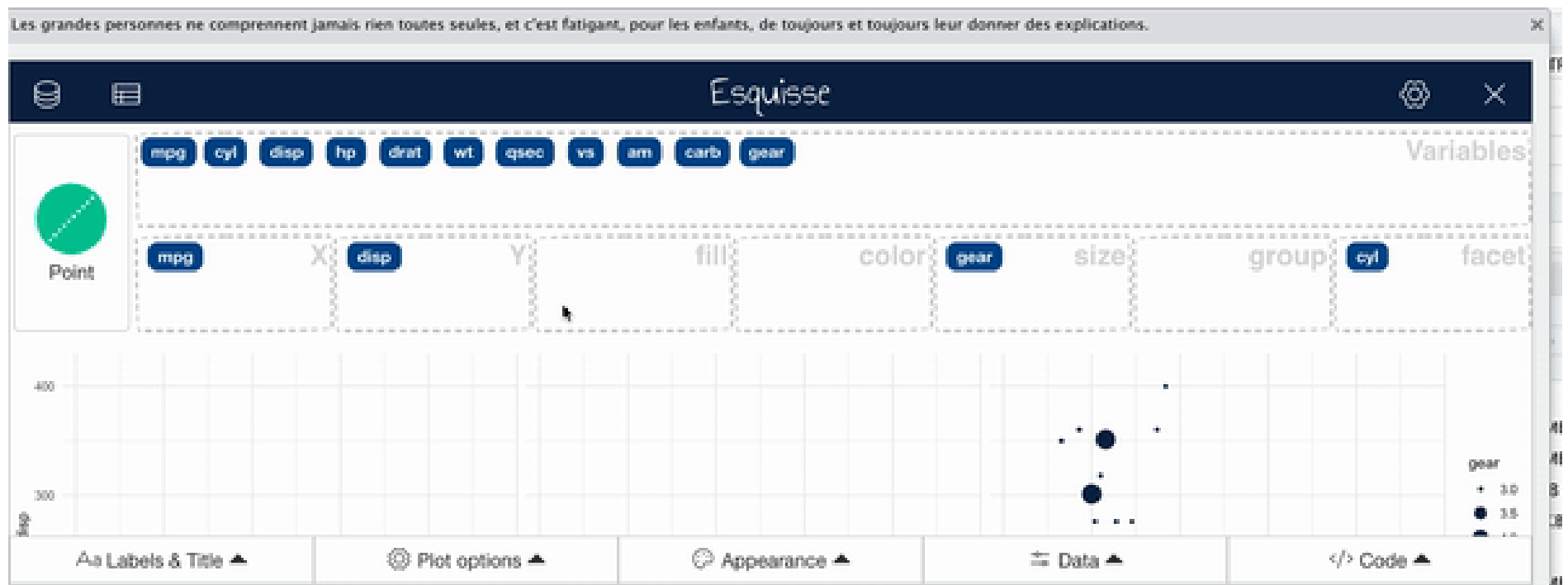
# Add size

Sometimes it is useful to change the way points are plotted so that size represents a variable. This can especially be helpful if you need your plot to be black and white.



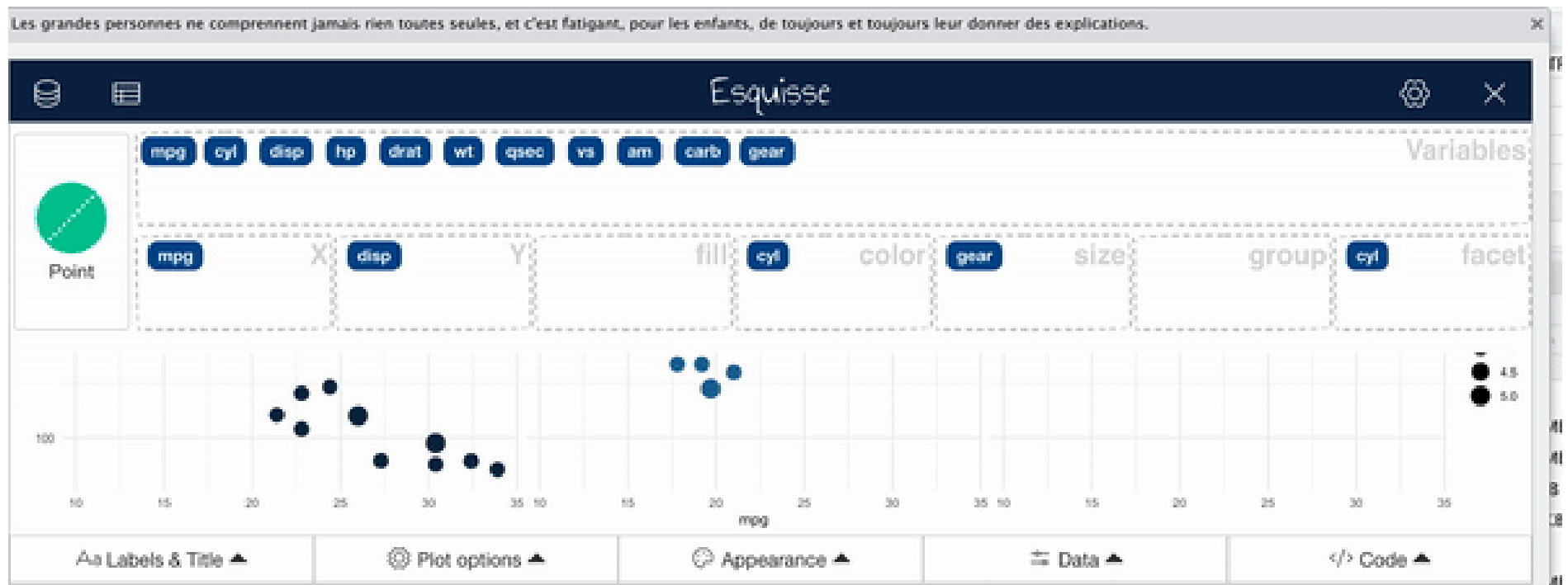
# Add color

For plots with points use the color region to change coloring according to a variable. (use "fill" for bar plots)



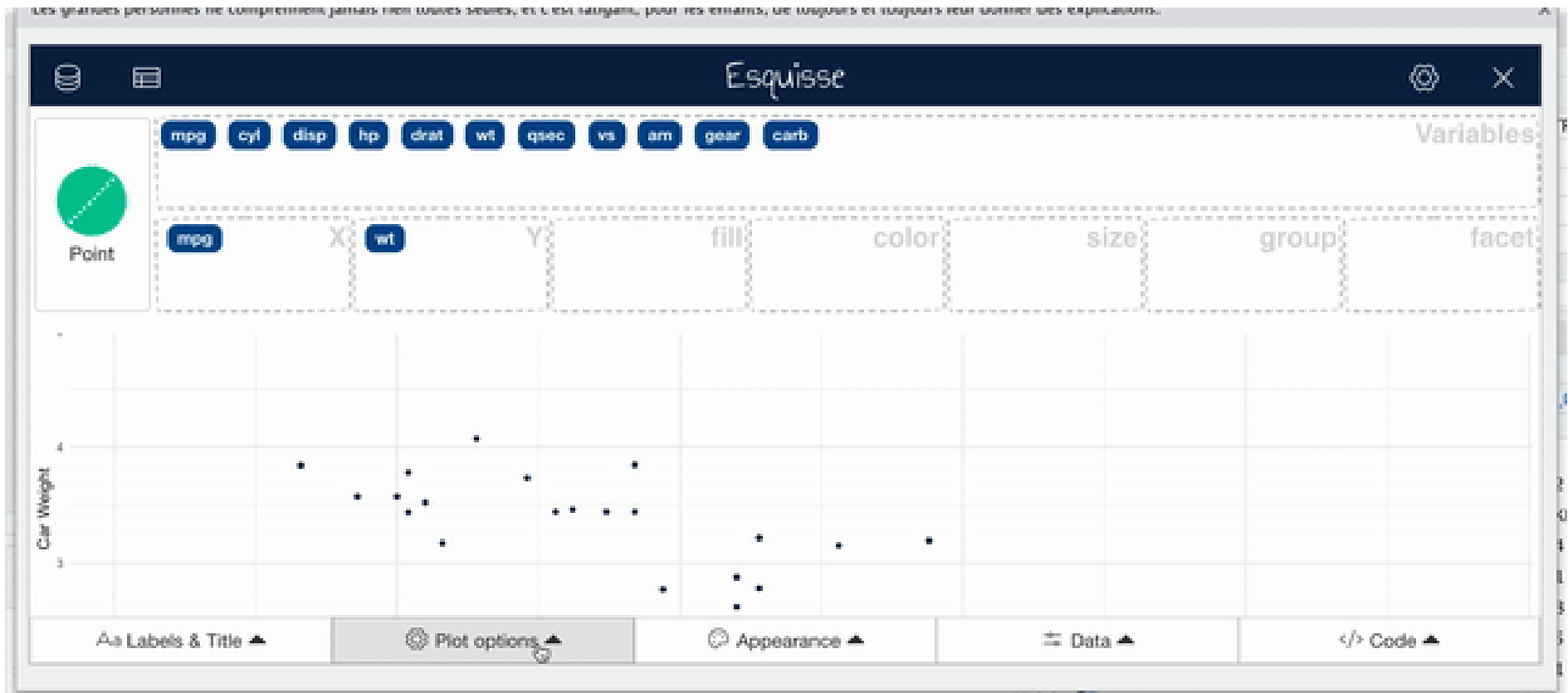
# Appearance

You can change the overall appearance with the appearance tab.



# Smooth Lines

Especially when you have a scatter plot, it can be helpful to add a smooth/trend line.



# Change titles

To change titles on your plot, use the titles tab.

