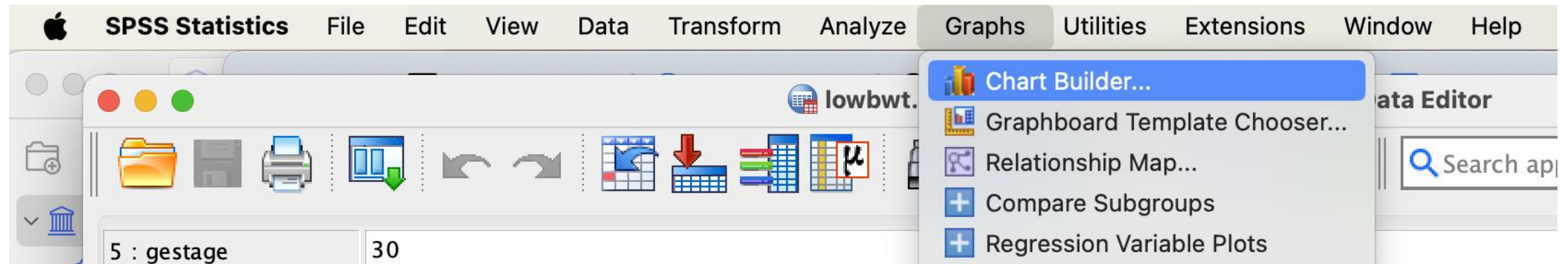


# More charts

Box plot, histogram, bar/column charts; keep using lowbwt.sav

# Bar chart

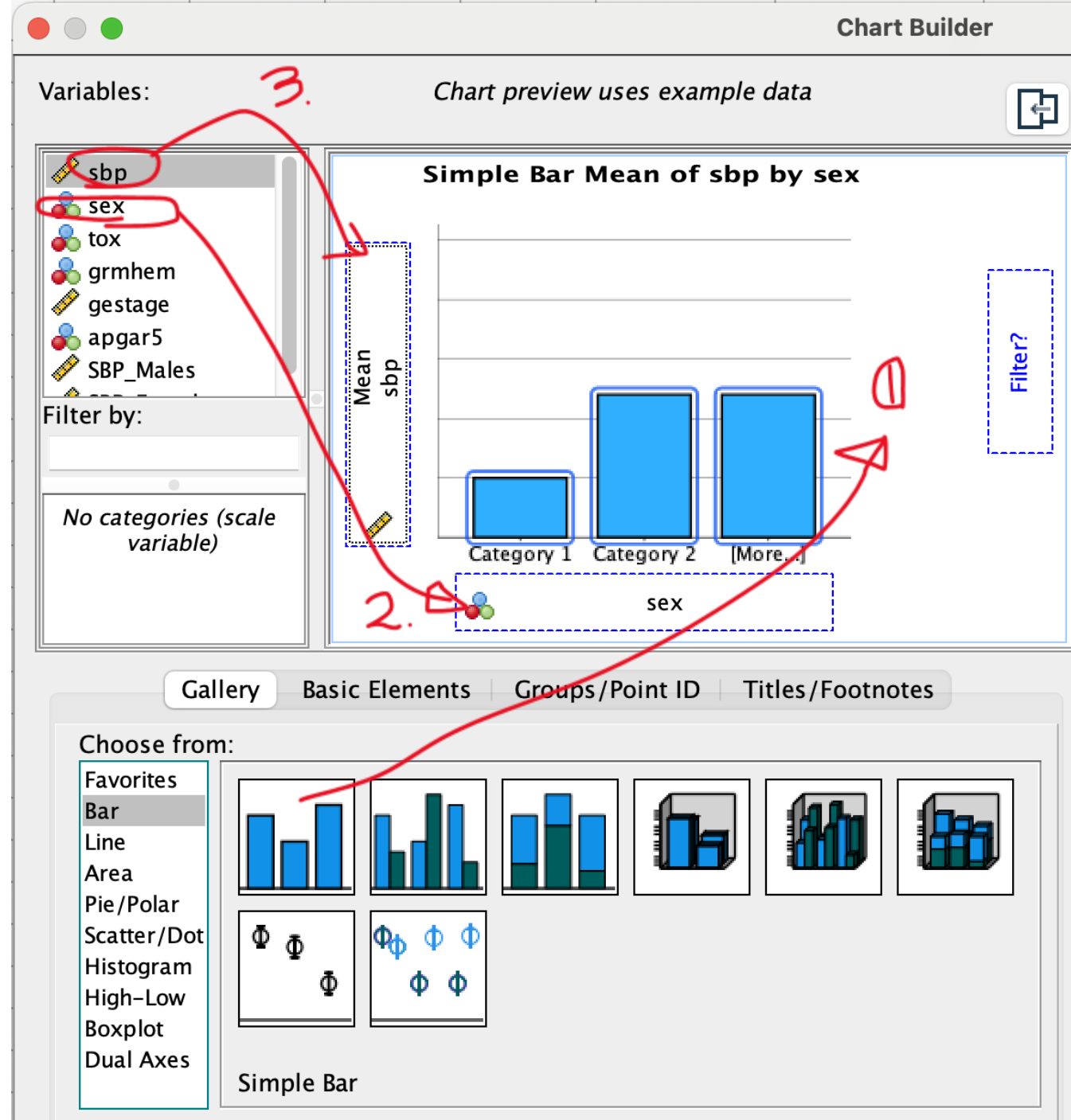
Let's plot blood pressure distribution based on the categorical variable: sex, using a bar chart.



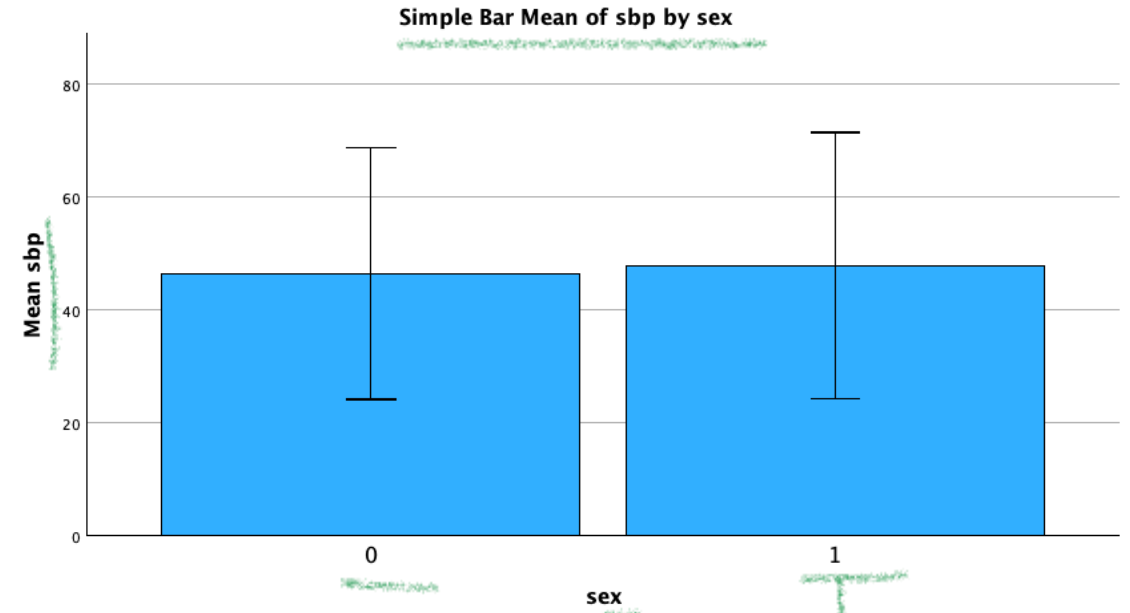
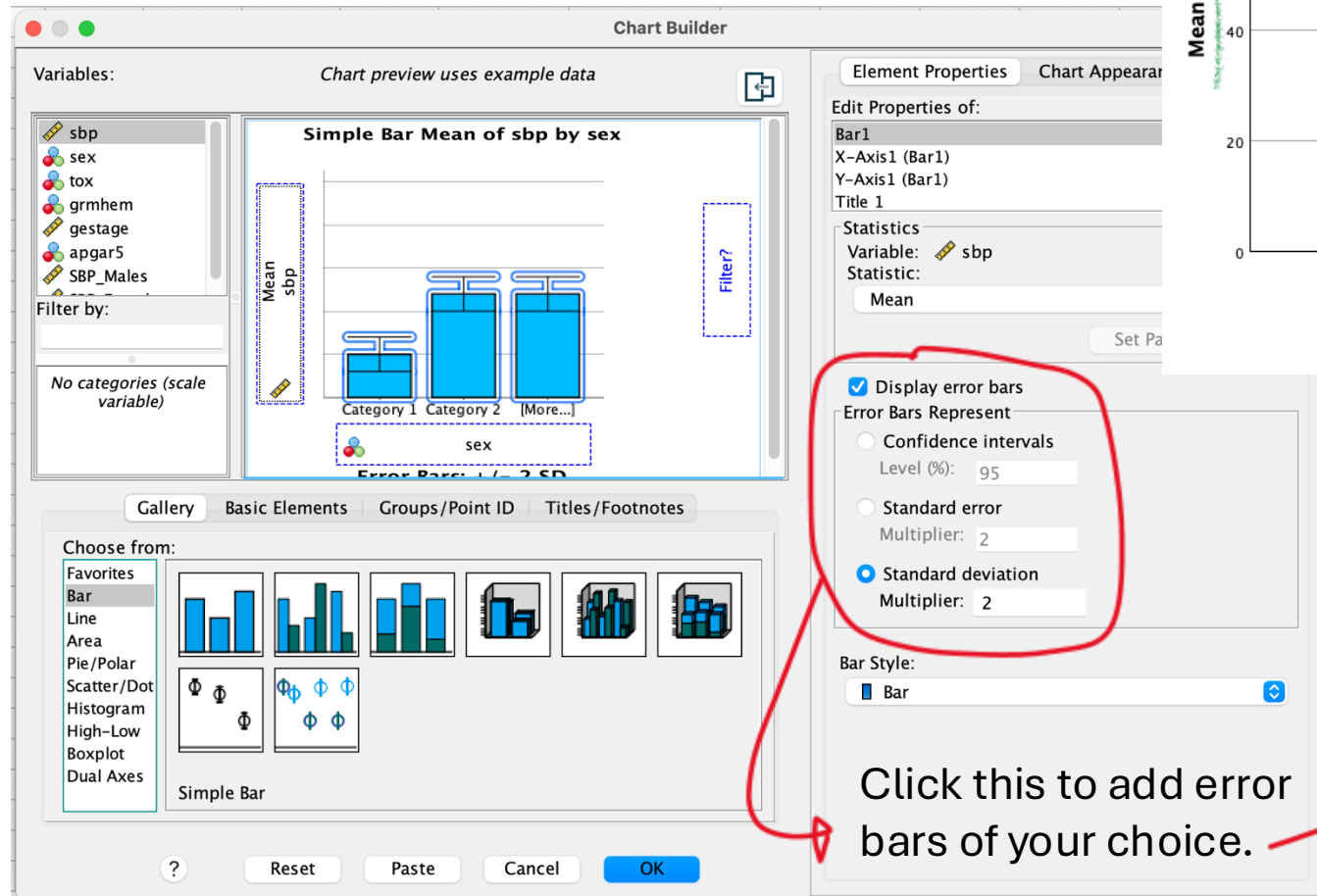
Read more from here: <https://statistics.laerd.com/spss-tutorials/bar-chart-using-spss-statistics-2.php>

# Bar chart

- If you drag **sbp** to Y-axis, it will automatically set the mean to be plotted.



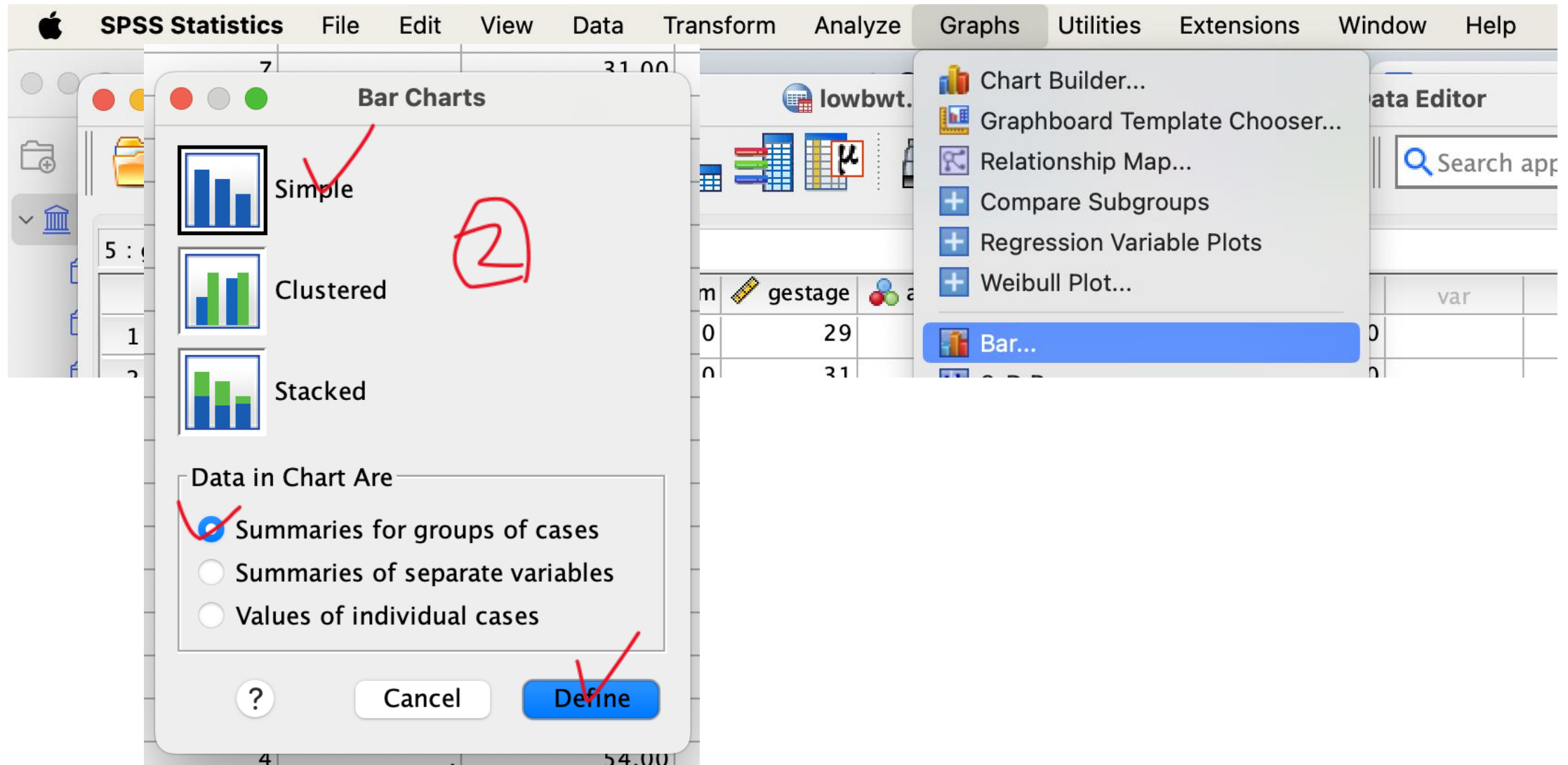
# Bar chart



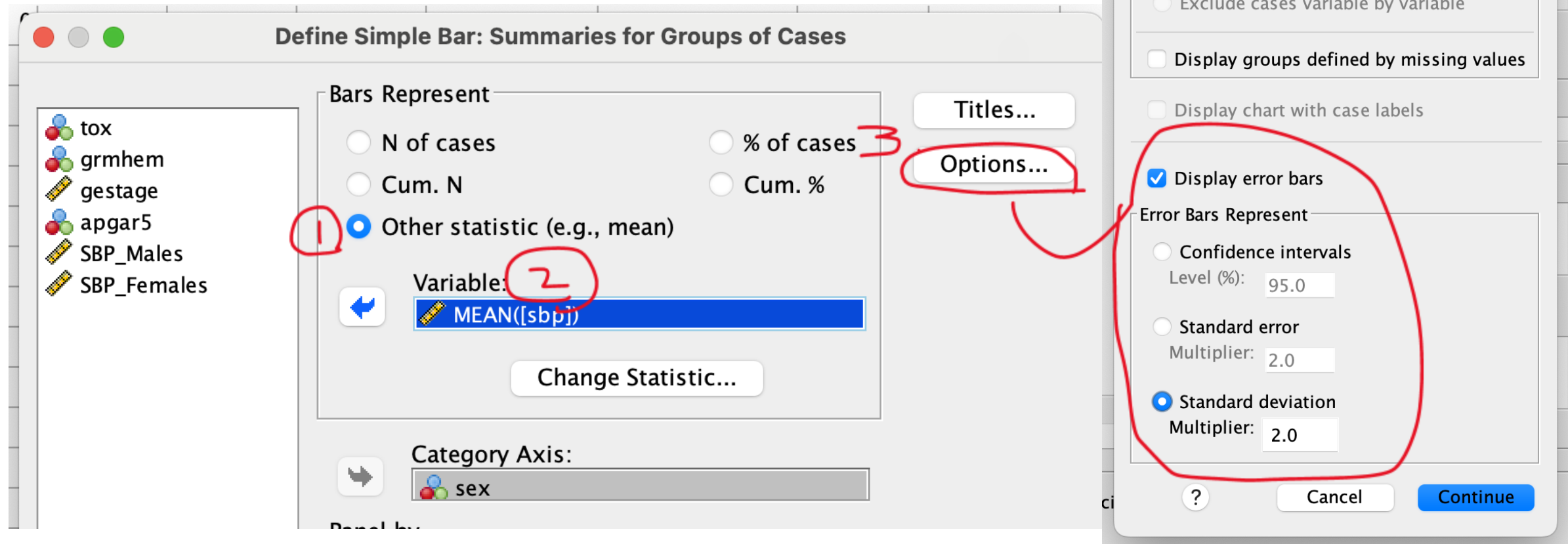
Error Bars: +/- 2 SD

You know how to change the rest...

# Bar chart: method 2

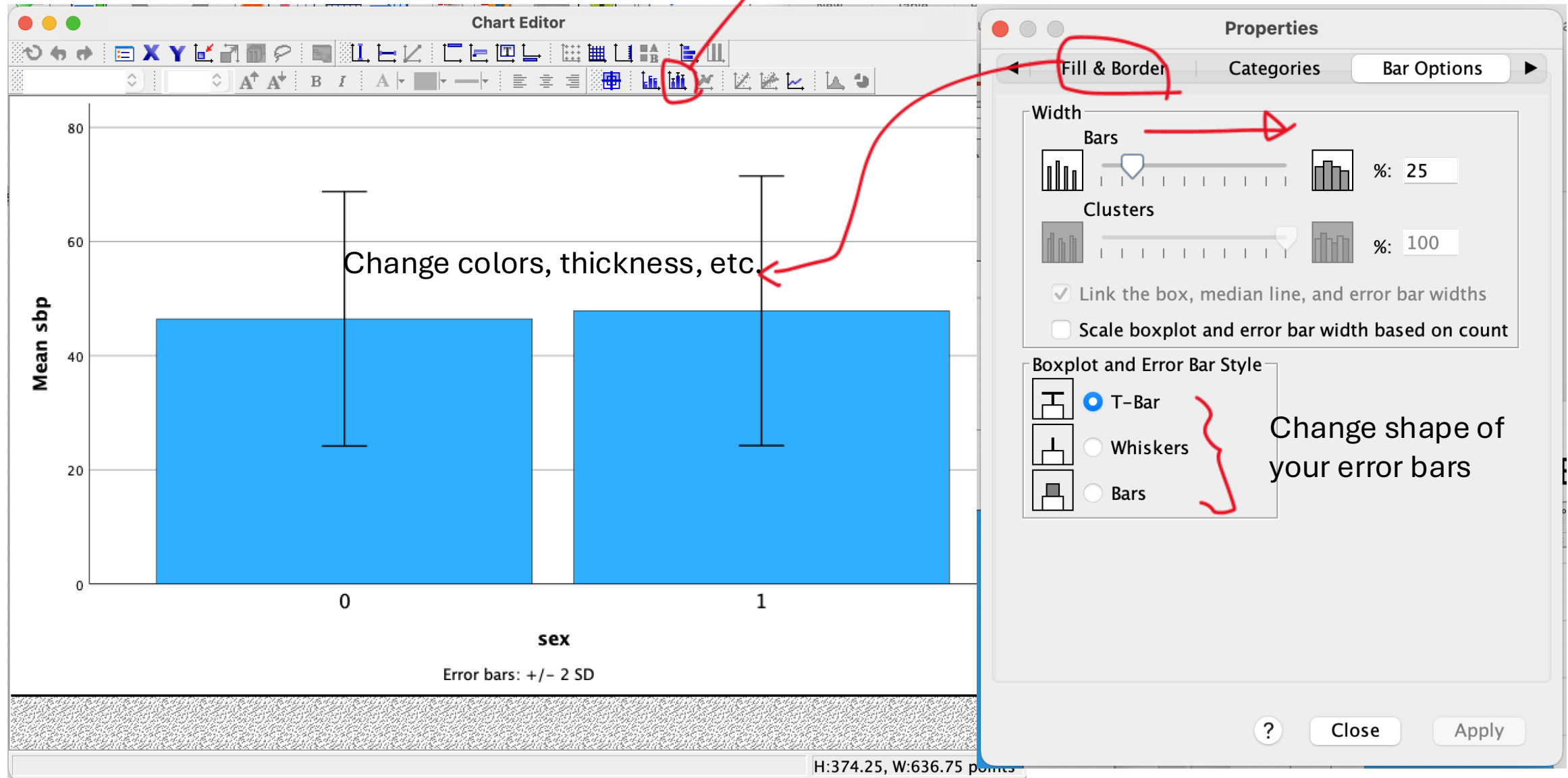


# Bar chart: method 2

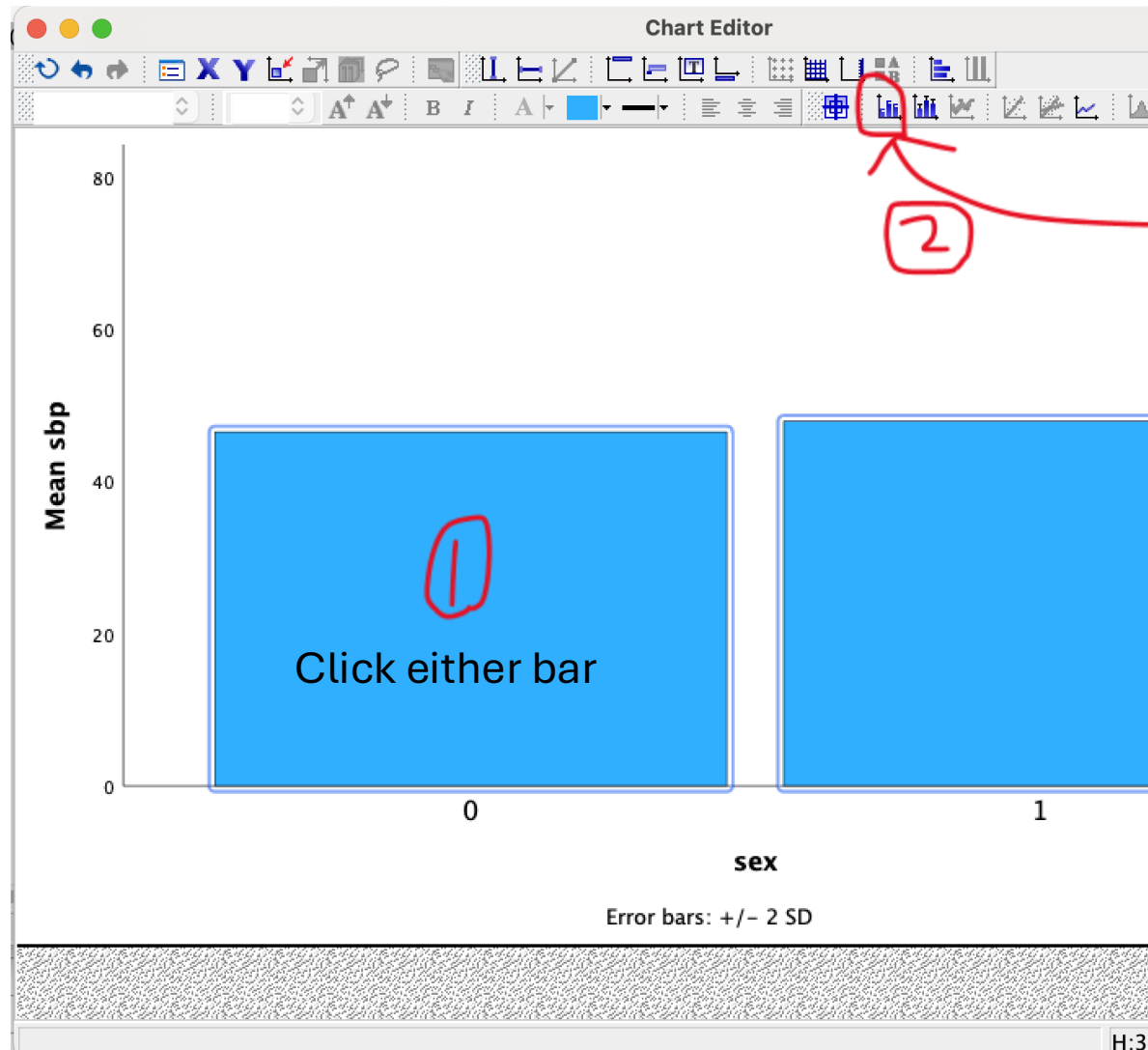


# Modify error bars

When error bars are visible, clicking this button will hide the error bars. If you click one more time, you see window below:



# Modify labels



Properties

Number Format Data Value Labels Variables

Labels

Displayed:

sbp

Not Displayed:

sex

Percent

Label Position

☐ Automatic

☐ Manual

☒ Custom

Display Options

☒ Suppress overlapping labels

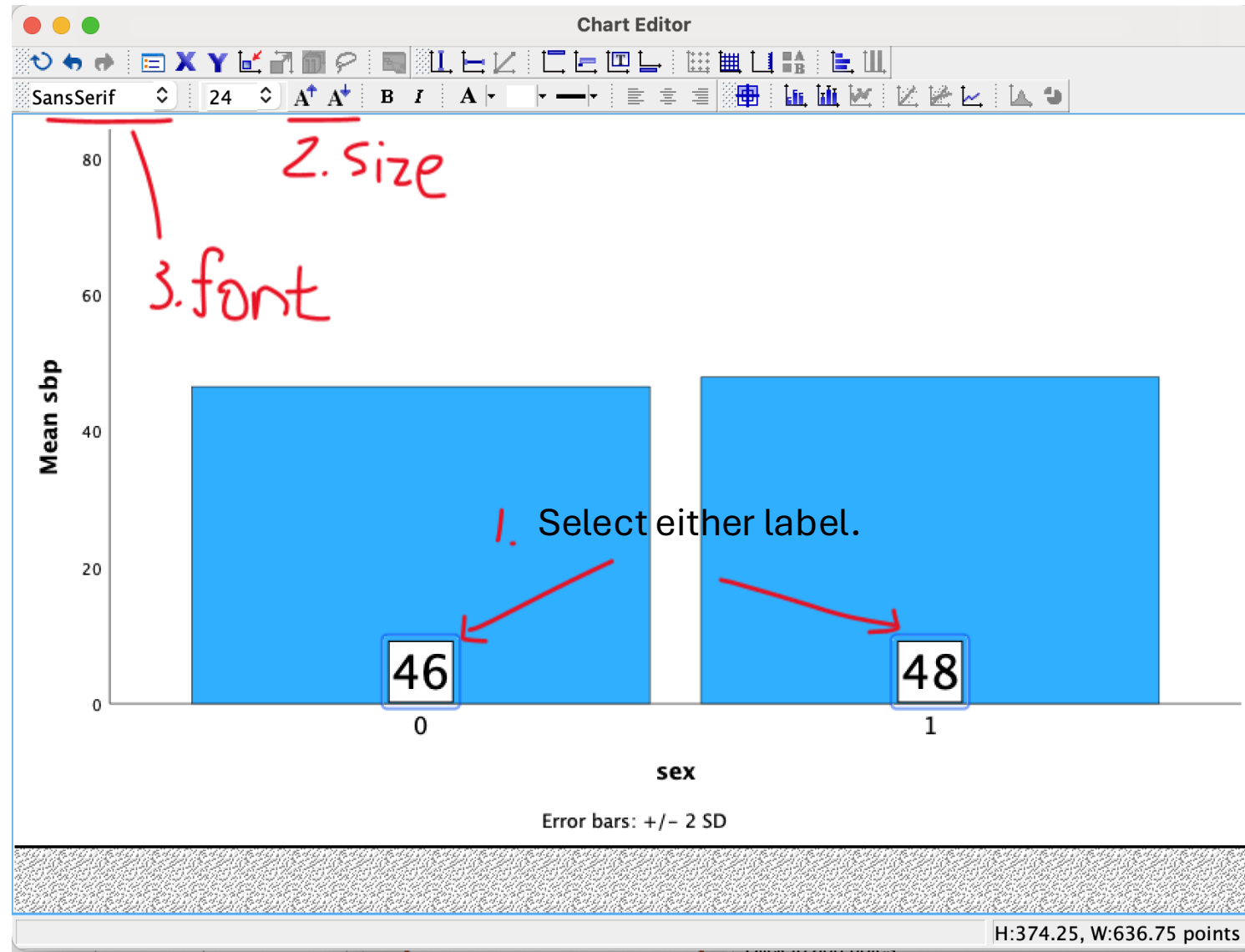
☒ Display connecting lines to label

☐ Match label color to graphic element

Apply

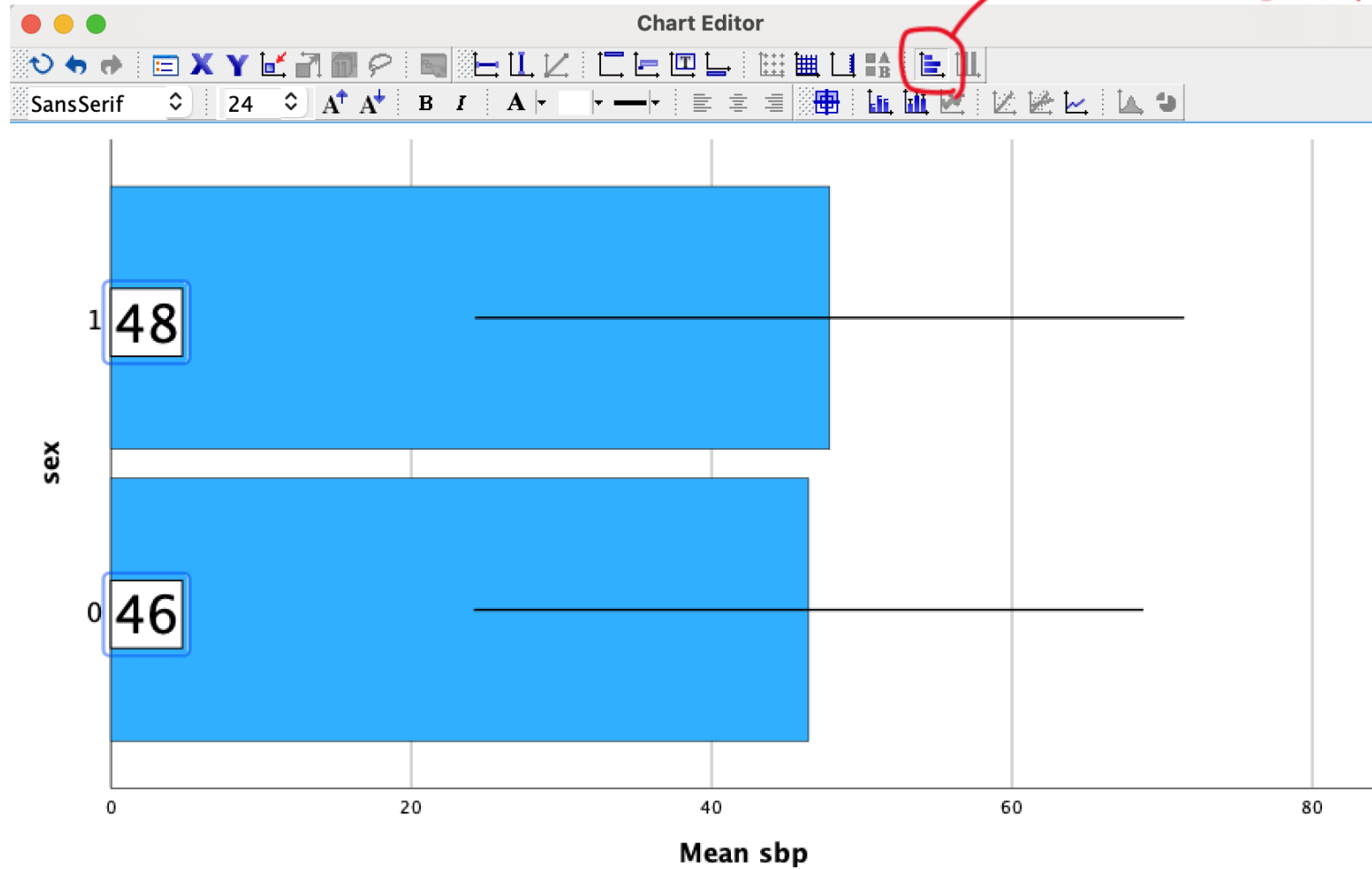


# Modify labels, further



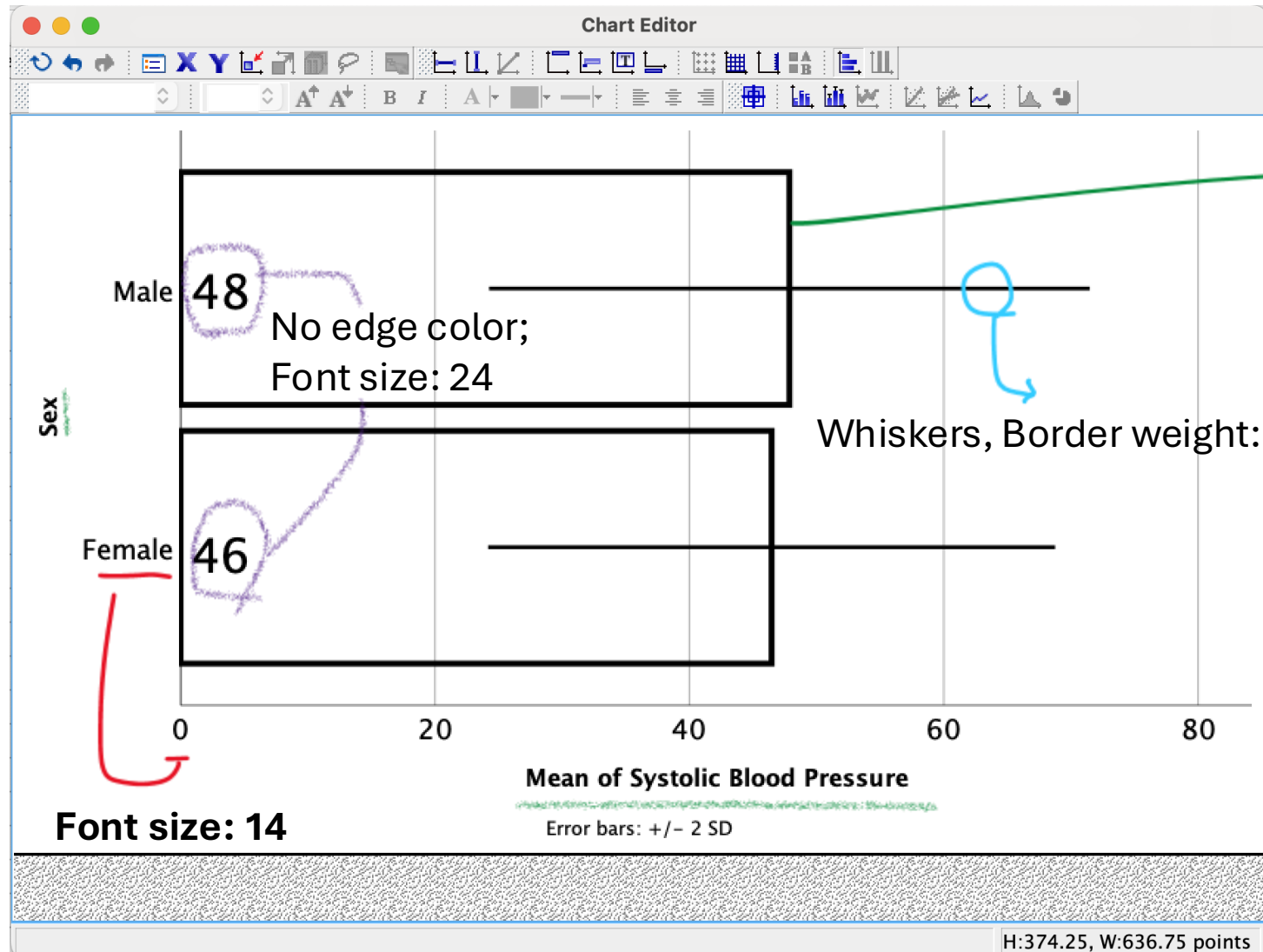
# Transpose

Click!

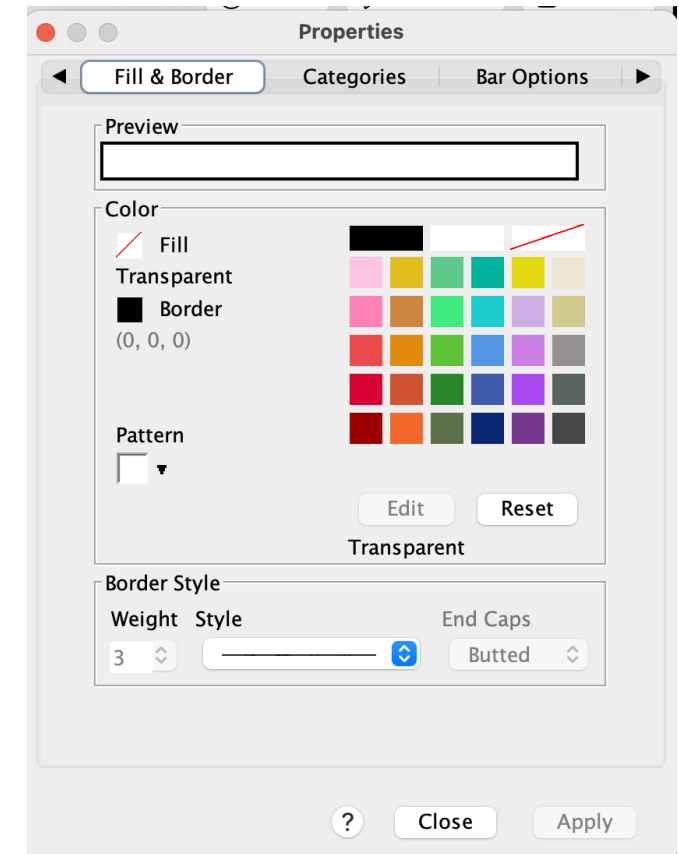


Error bars:  $\pm 2$  SD

# Can you make this: 1



Bar:  
No fill color; Edge color: black;  
Border weight: 3



# Box plot

**Chart Builder**

Variables: sbp, sex, tox, grmhem, gestage, apgar5, SBP\_Males

Filter by: No categories (scale variable)

Chart preview uses example data

**Simple Boxplot of sbp by sex**

sbp

sex

Category 1 Category 2 [More...]

Filter?

Choose from:

- Favorites
- Bar
- Line
- Area
- Pie/Polar
- Scatter/Dot
- Histogram
- High-Low
- Boxplot**
- Dual Axes

Simple Boxplot

Element Properties **Chart Appearance** Options

Colors

Cycle Order

- Category 1
- Category 2
- Category 3
- Category 4
- Category 5
- Category 6
- Category 7

Available Colors:

Reset Edit

(255, 255, 255)

Frame

- ☐ Outer
- ☐ Inner

Grid Lines

- ☐ X axis
- ☒ Y axis

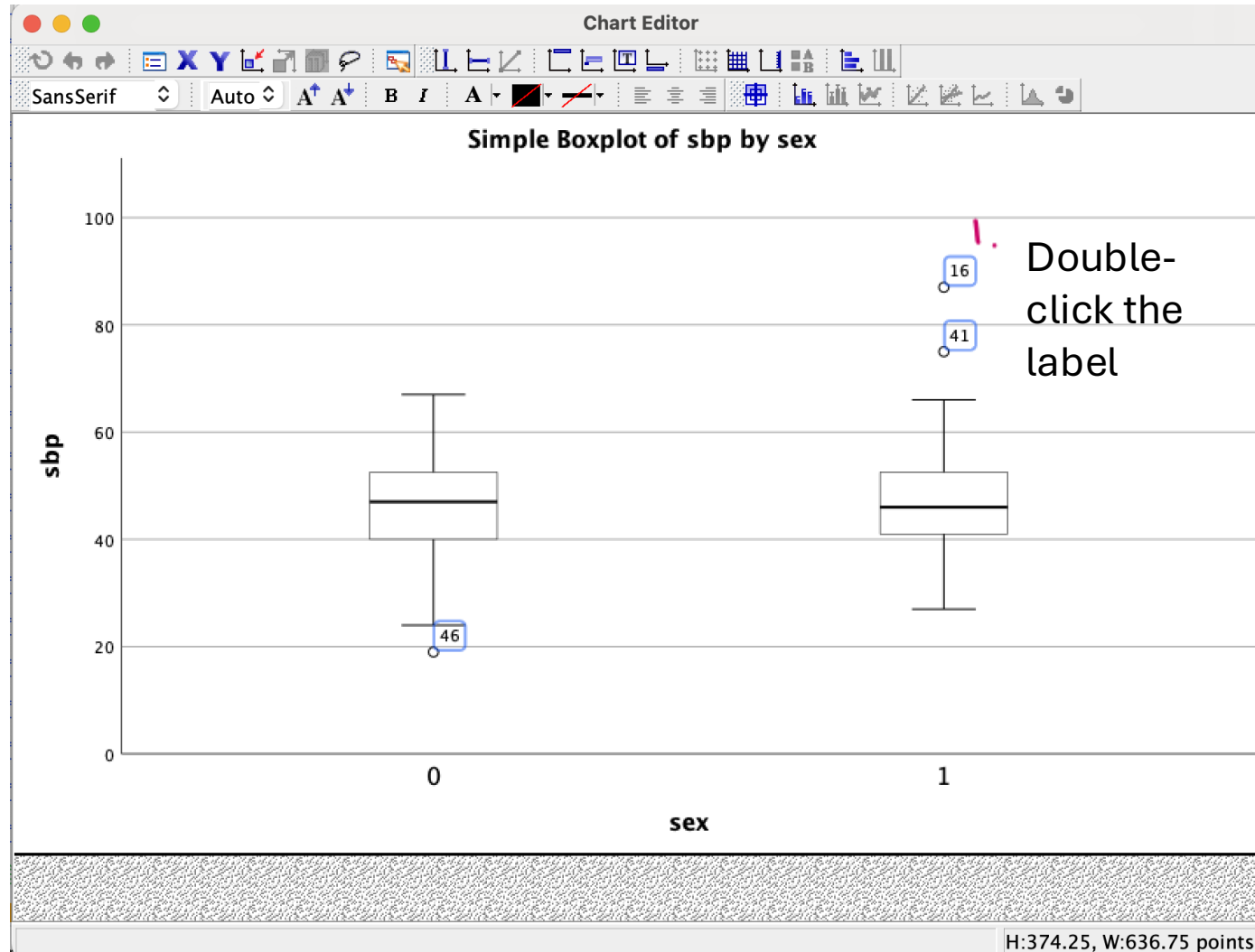
Add Gradients

Template

Options settings Browse...

Reset Paste Cancel OK

# Modify labels



Properties

Fill & Border Data Value Labels Variables

Labels

Displayed:

Case Number

Not Displayed:

sex  
sbp

Label Position

☒ Automatic  
☐ Manual  
☐ Custom

Display Options

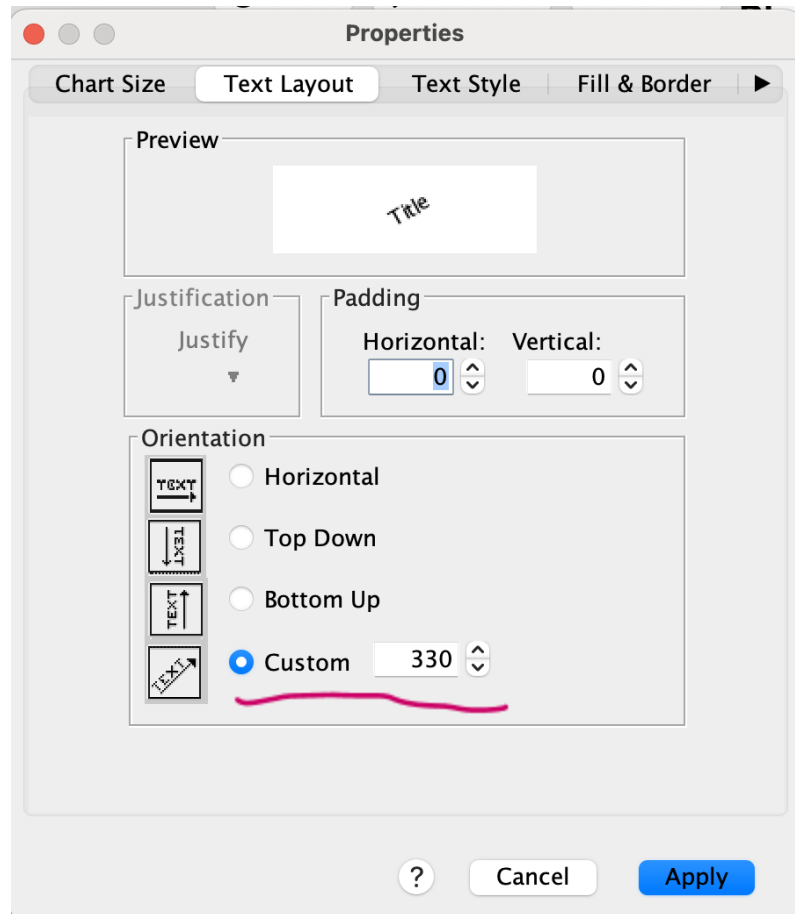
☒ Suppress overlapping labels  
☐ Display connecting lines to label  
☐ Match label color to graphic element

?

Close

Apply

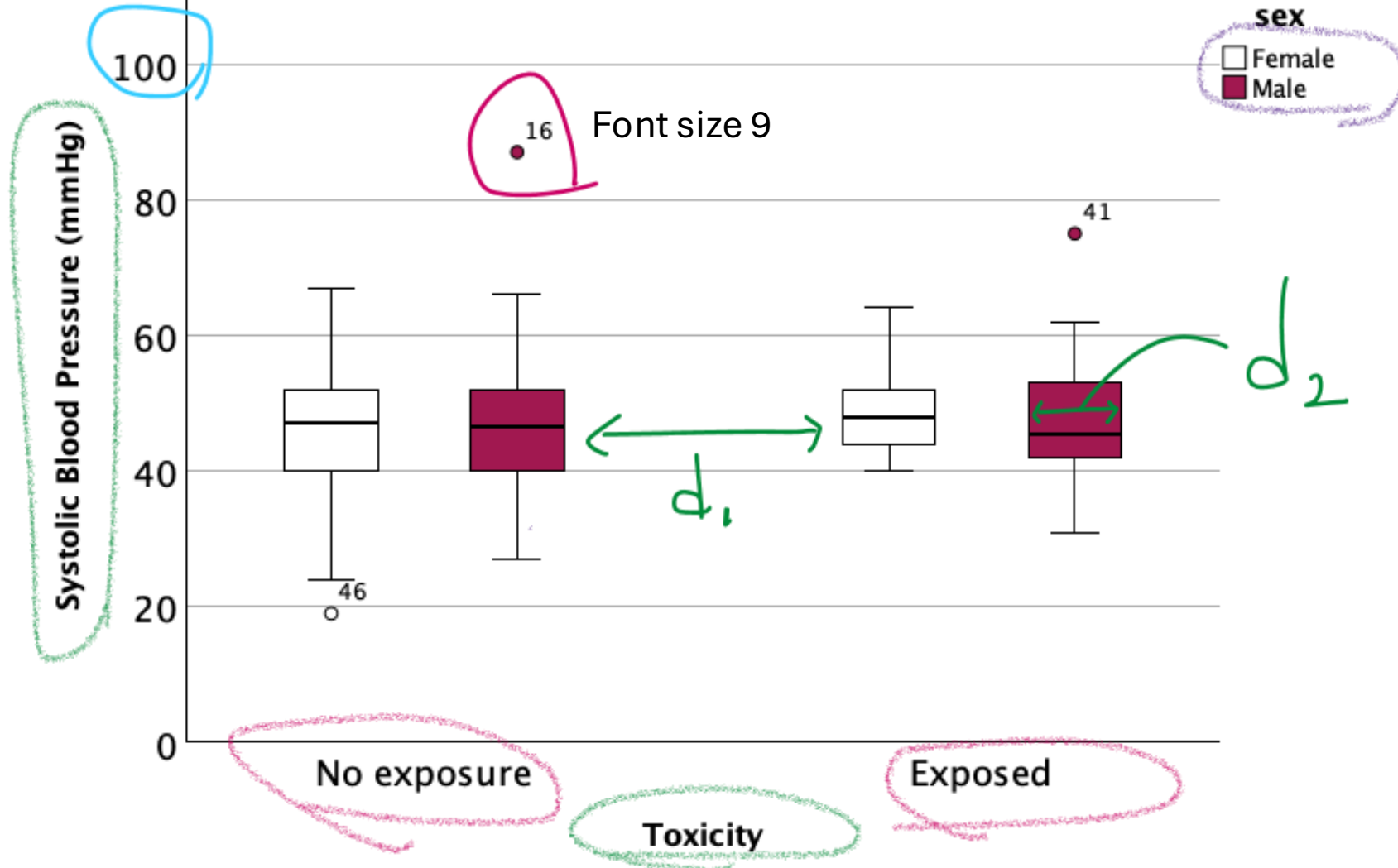
# Modify labels, further



# Can you make this: 2

Title deleted

Font size: 14

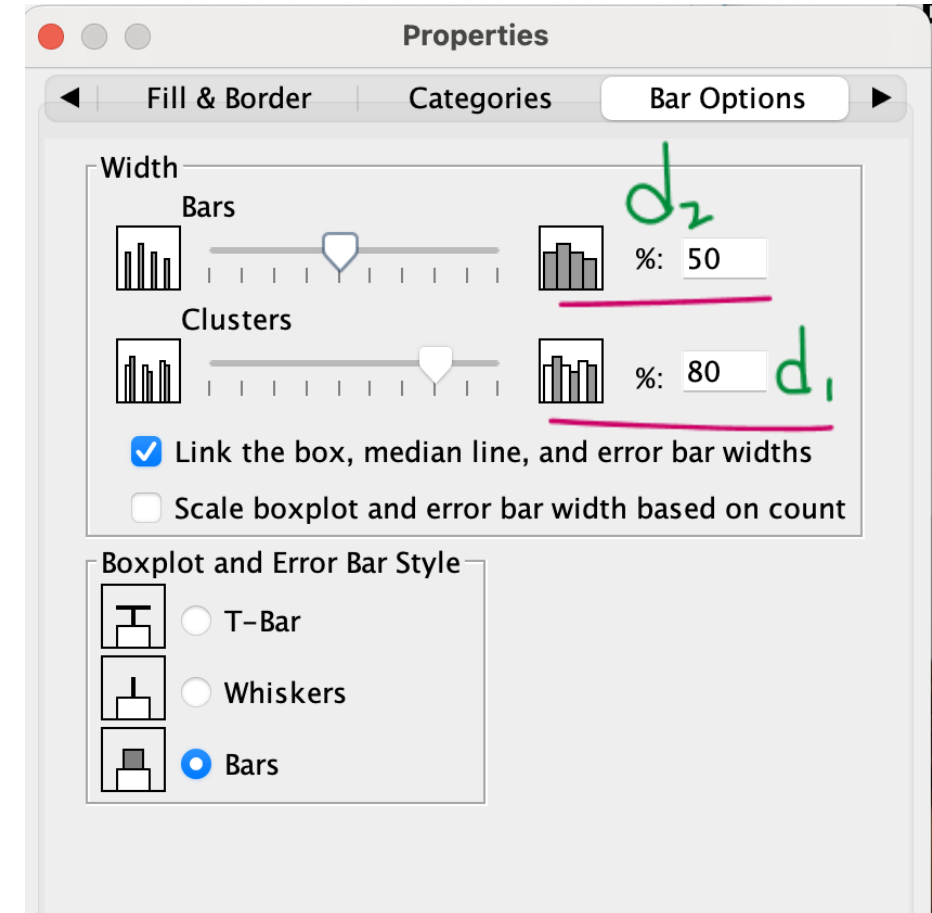


Also, write a figure caption for this figure, based on what you see.

# Hint: Can you make this: 2



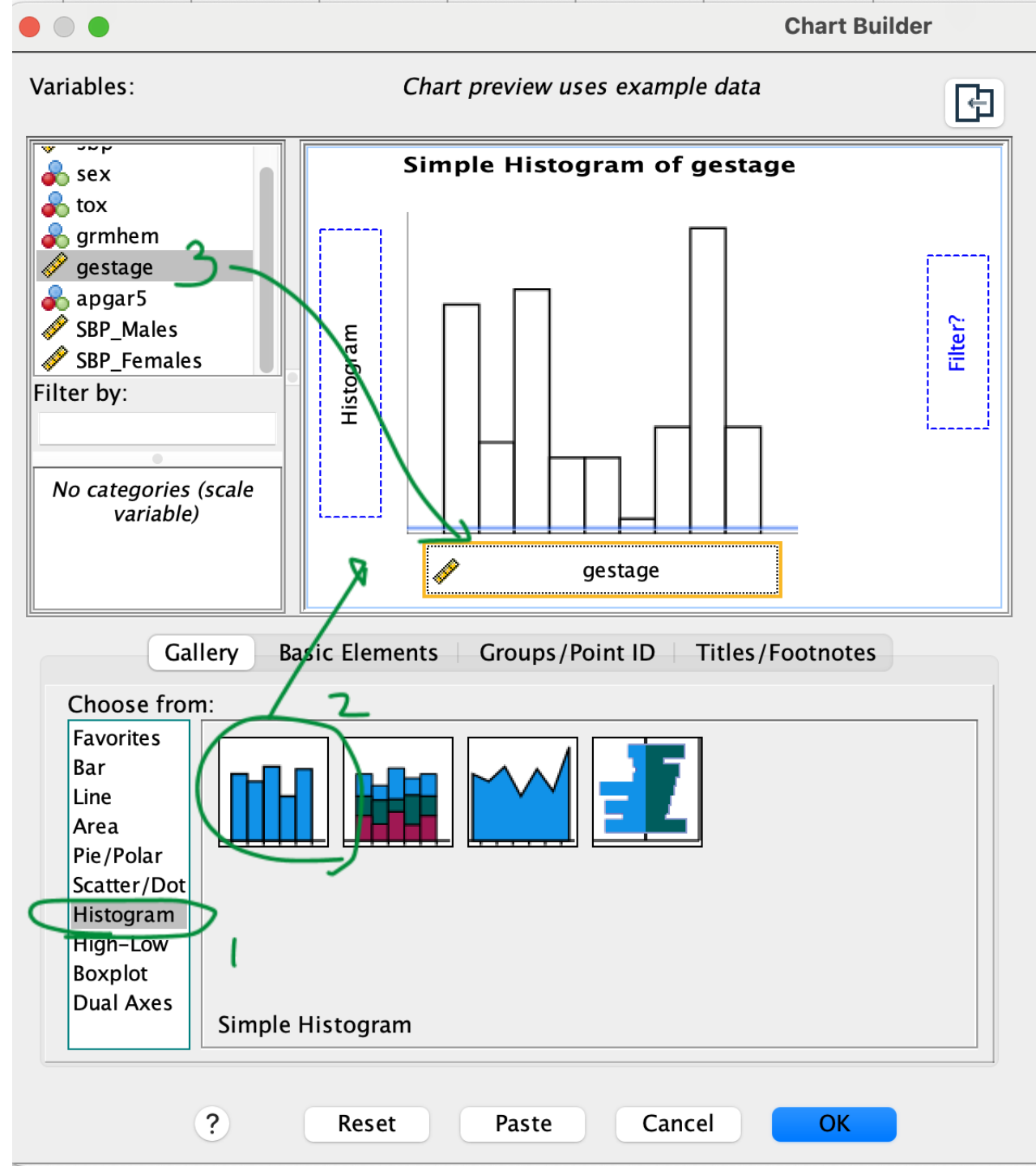
When you generate a plot



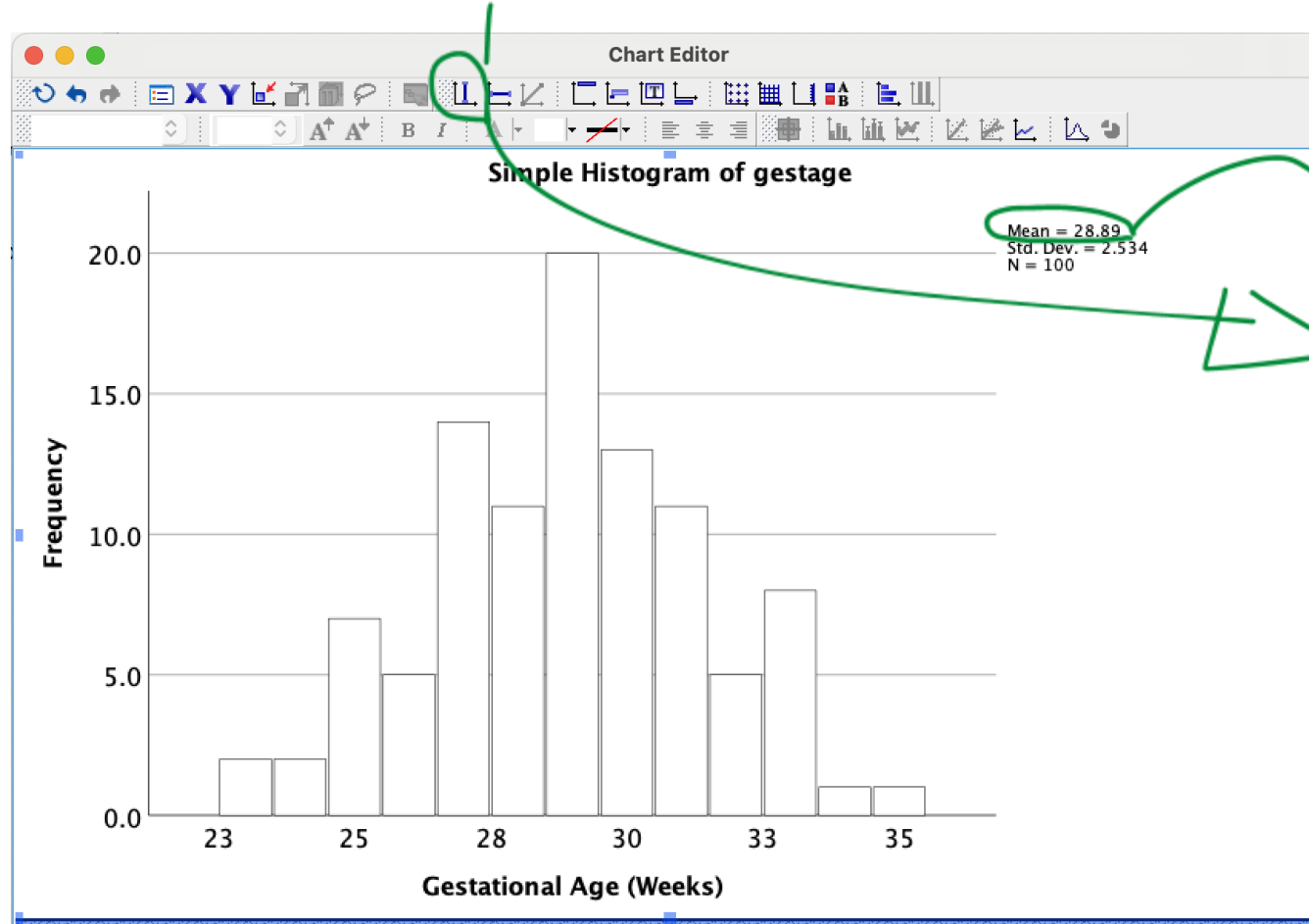
Inside the Chart Editor



# Histogram



# Histogram: adding a vertical line to indicate the mean



Properties

Chart Size | Lines | **Reference Line** | Variables

Scale Axis

Variable: Gestational Age (Weeks)

Position: 28.89

Set to: Mean

Changes automatically

Category Axis

Variable:

Position:

Custom Equation

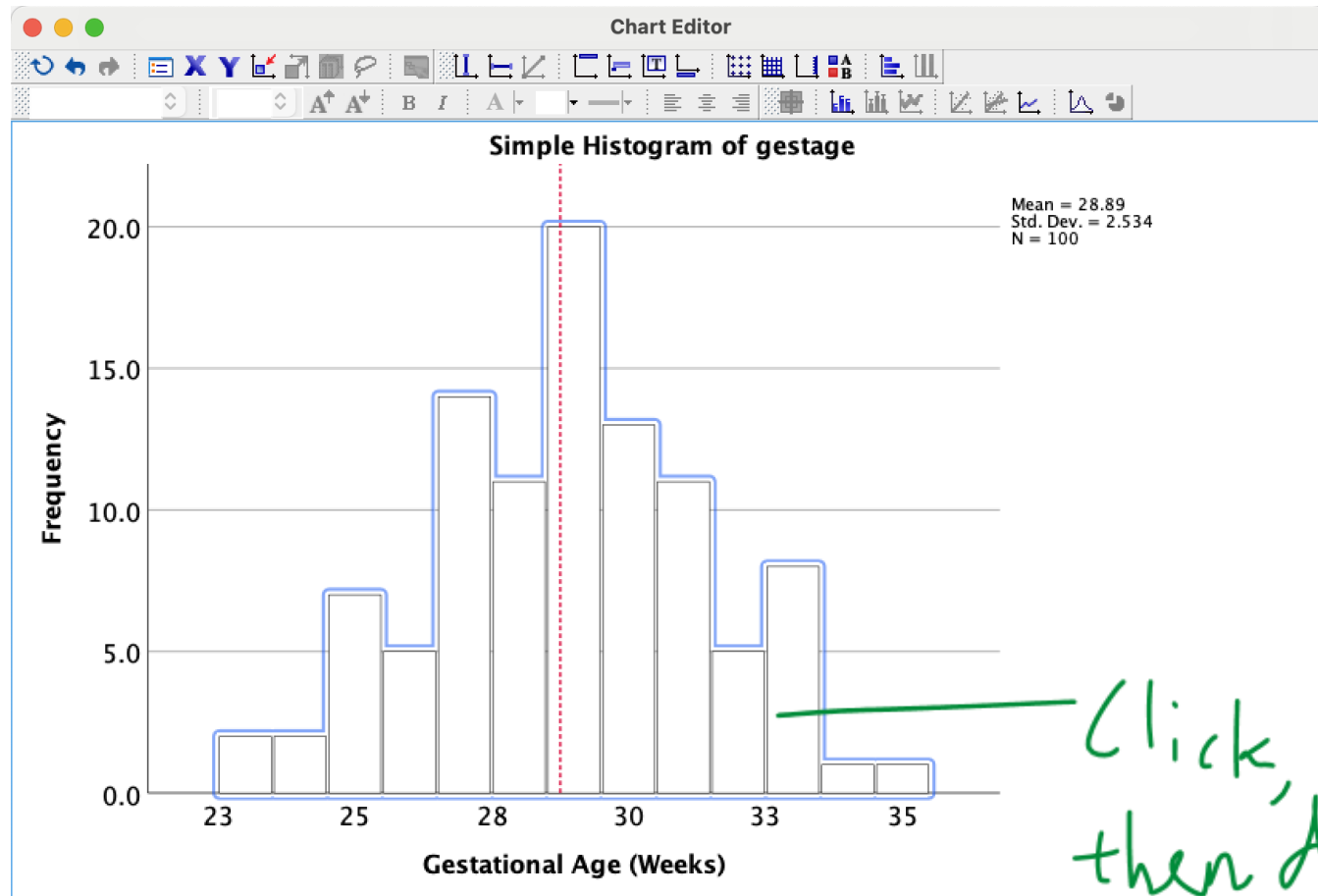
y =

Valid Operators: +, -, \*, /, (, ), and \*\*

☐ Attach label to line

? Cancel Apply

# Histogram: change the bin width



Properties

Chart Size | Fill & Border | Binning | Variables

☒ X axis only  
☐ Z axis only  
☐ X and Z axes

X Axis

☐ Automatic  
☒ Custom

☐ Number of intervals: 13  
☒ Interval width: 0.5  
☐ Custom value for anchor: 22.5

Z Axis

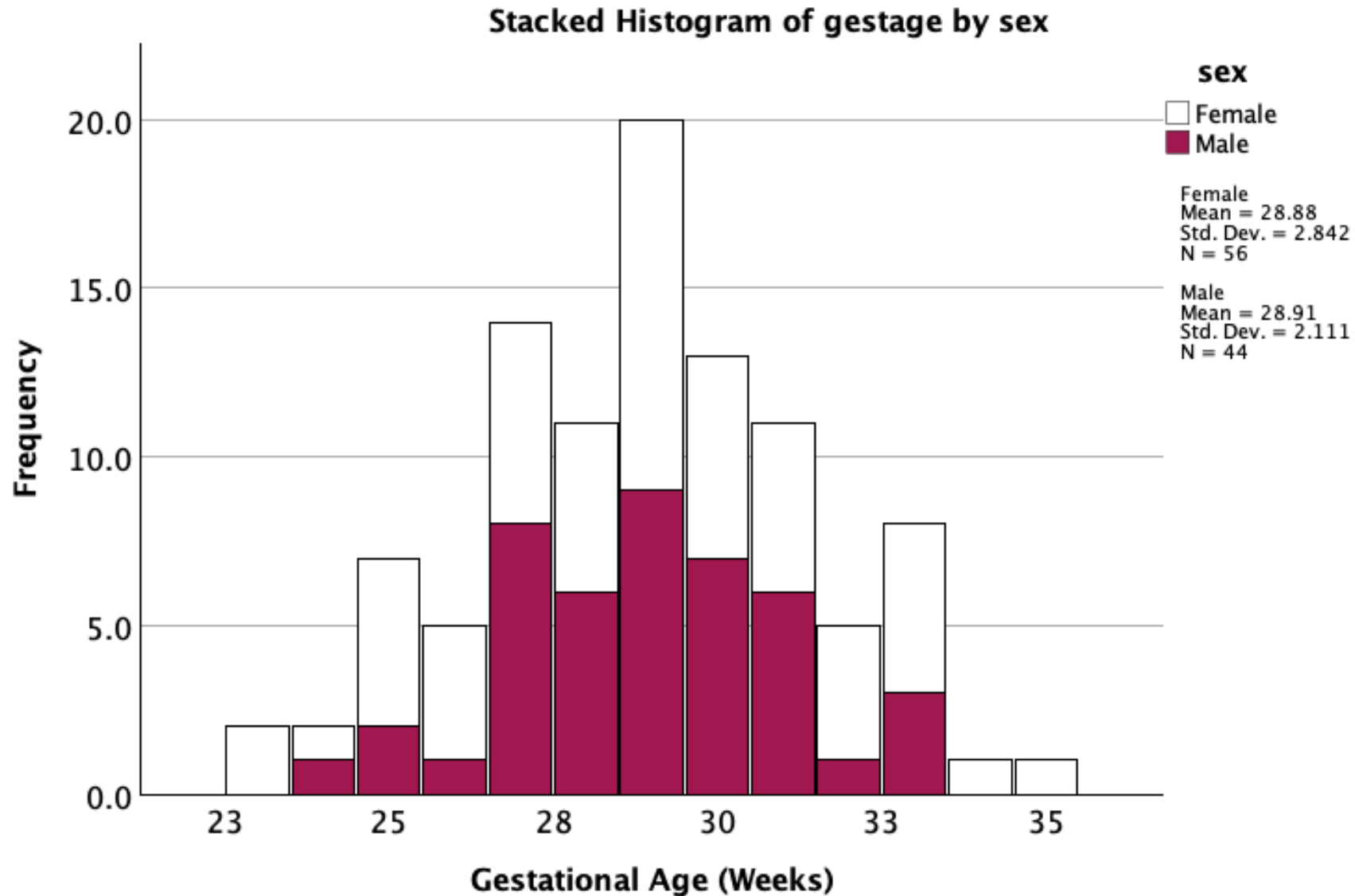
☒ Automatic  
☐ Custom

☒ Number of intervals: 0  
☐ Interval width:  
☐ Custom value for anchor:

? Cancel Apply

Click,  
then click

# Can you make this: 3



# Hint: Can you make this: 3

