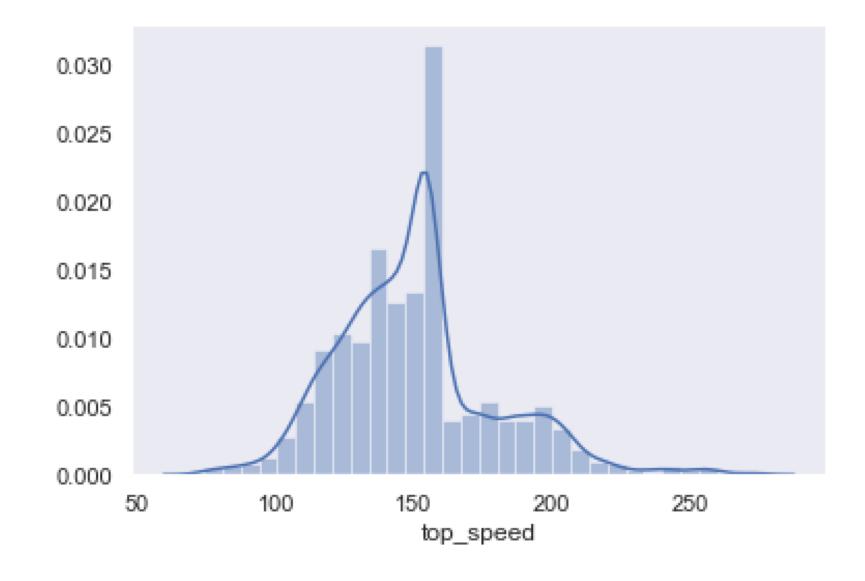
SEABORN DISTPLOT

WHAT YOU'LL LEARN

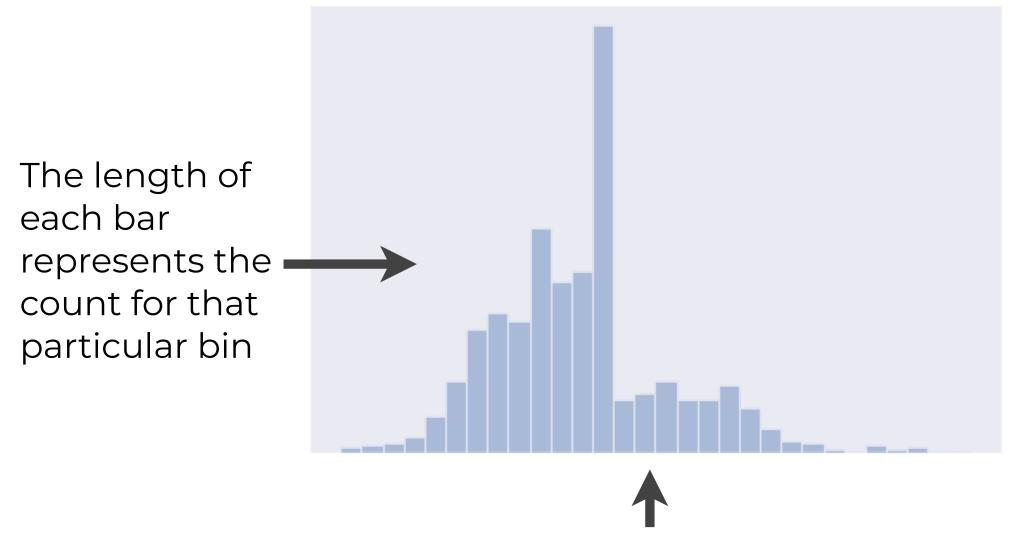
- How to create a "distplot" in Seaborn
 - a combined histogram & density plot
- How to modify your distplots
 - change color
 - change the bins in the histogram
 - create a pure histogram
 - create a pure density plot

SEABORN DISTPLOT OVERVIEW

SNS.DISTPLOT CREATES A COMBINED HISTOGRAM & DENSITY PLOT

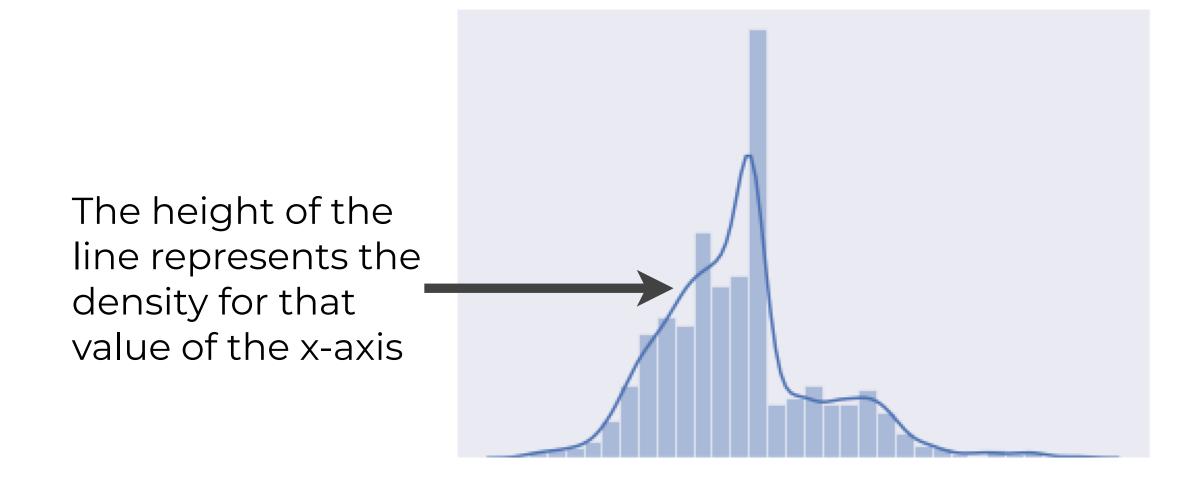


PART OF THE DISTPLOT IS A HISTOGRAM



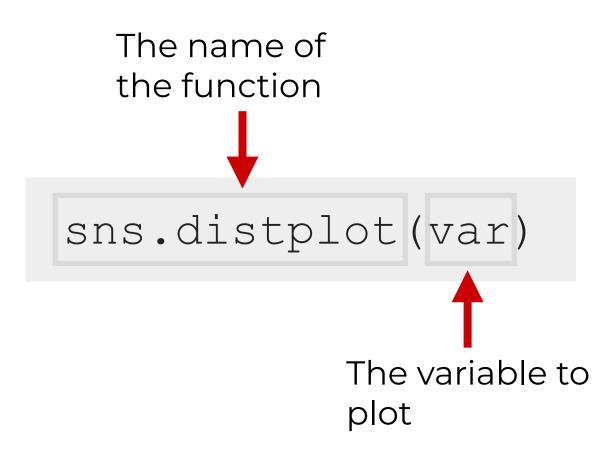
In the histogram, a numeric variable is mapped to the x axis and the axis is divided up into "bins"

IN THE DISTPLOT, THE HISTOGRAM IS OVERLAYED WITH A DENSITY ESTIMATE



SEABORN DISTPLOT SYNTAX

SYNTAX OF SNS.DISTPLOT



PARAMETERS OF SNS.DISTPLOT

THE PARAMETERS OF SNS.DISTPLOT

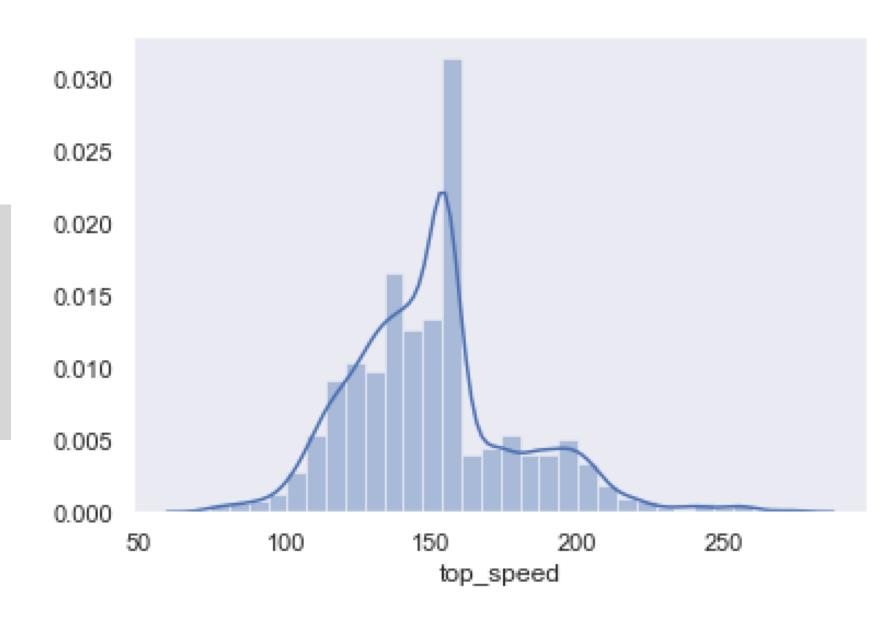
Parameter	What it does	Format	Default
color	Specifies the color of the bars and the KDE plot	A color	
kde	Specifies whether or not you want to include the KDE line in the plot	True Or False	True
hist	Specifies whether or not you want to include the histogram in the plot	True Or False	True
bins	Specifies the number of bins for the histogram	A number	

EXAMPLES OF SNS.DISTPLOT

EXAMPLE 1: CREATE A SIMPLE DISTPLOT

```
Here, we're specifying the variable that we want to plot (i.e., supercars.top_speed)
```

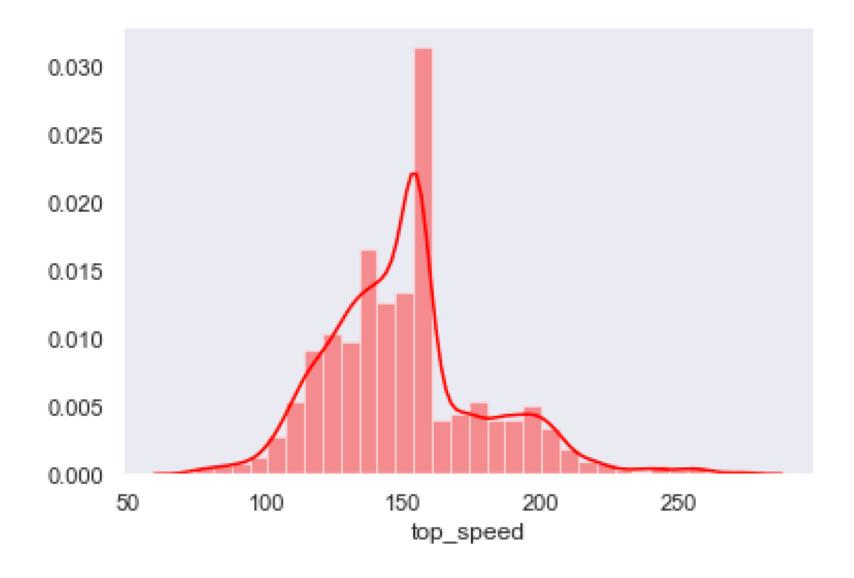
EXAMPLE 1: CREATE A SIMPLE DISTPLOT



EXAMPLE 2: CHANGE THE COLOR

Here, we're using the colorparameter to change the color of the plot to 'red'

EXAMPLE 2: CHANGE THE COLOR

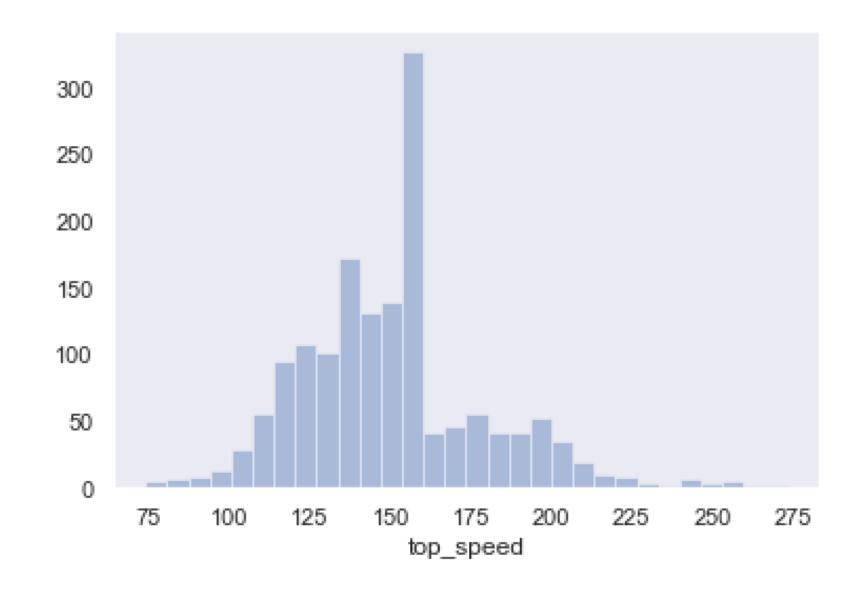


EXAMPLE 3: CREATE A PURE HISTOGRAM

Here, we're setting the kde

parameter to kde = False to
remove the kde density line

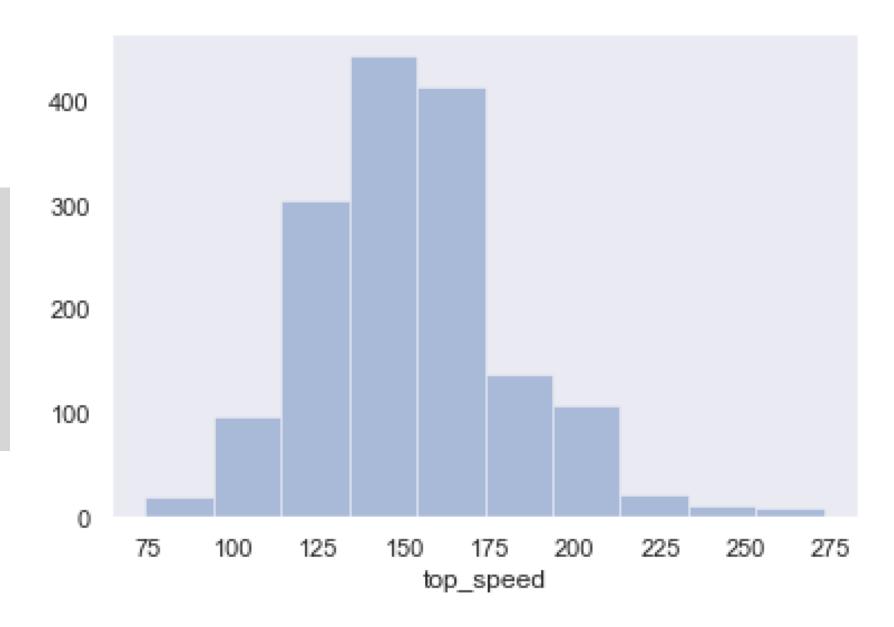
EXAMPLE 3: CREATE A PURE HISTOGRAM



EXAMPLE 4: CHANGE THE NUMBER OF BINS

Here, we're changing the bins parameter to create the histogram with a smaller number of bins

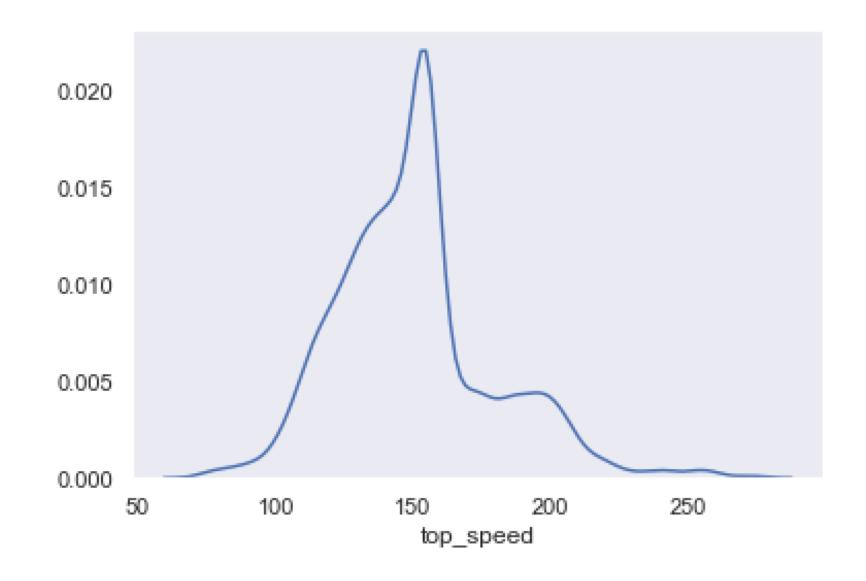
EXAMPLE 4: CHANGE THE NUMBER OF BINS



EXAMPLE 5: CREATE A PURE DENSITY PLOT

Here, we're setting the hist
 parameter to hist = False to
 remove the histogram from the plot

EXAMPLE 5: CREATE A PURE DENSITY PLOT



RECAP

RECAP OF WHAT WE LEARNED

- How to use the sns.distplot() function
 - create a combined histogram + KDE plot
- How to modify your distplots
 - change color
 - change the bins in the histogram
 - create a pure histogram
 - create a pure density plot
- **Next Steps**: Watch the code walkthrough videos for step-by-step examples of sns.distplot()