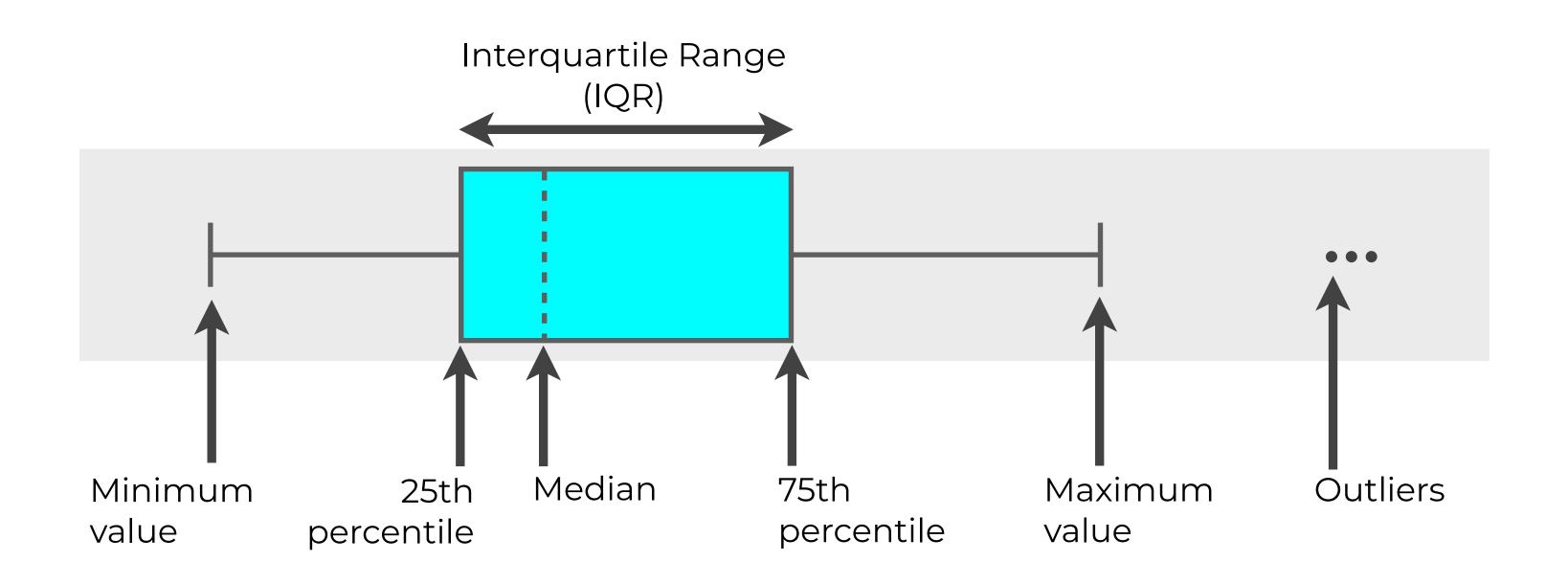
SEABORN BOXPLOT

What you'll learn

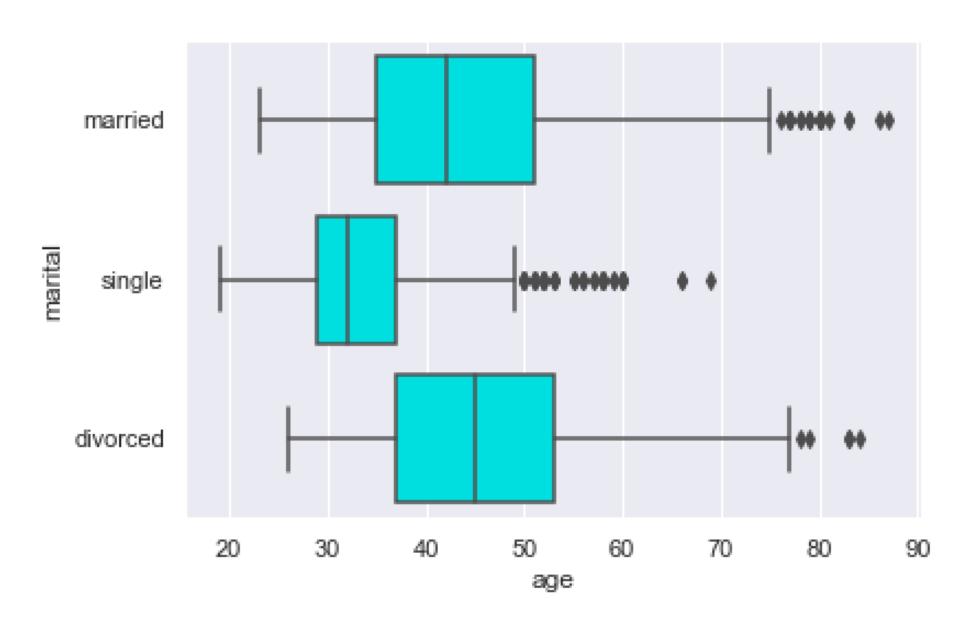
- How to create a boxplot in Seaborn
- How to modify your boxplots
 - change the box color
 - map a variable to the box color
 - change the width of the boxes
 - create a horizontal boxplot
 - create a 'dodged' boxplot

SEABORN BOXPLOT OVERVIEW

BOX PLOTS PROVIDE DETAILED INFORMATION ABOUT A VARIABLE'S DISTRIBUTION

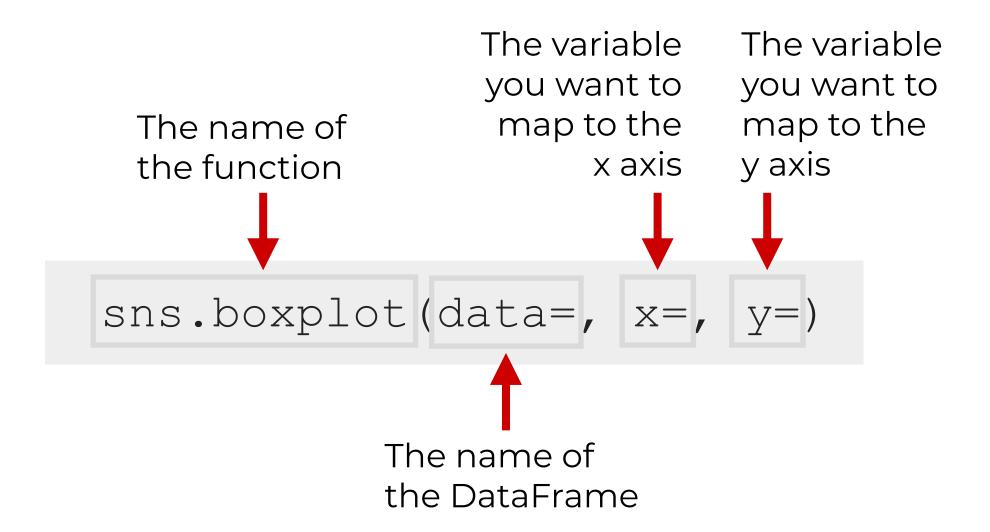


SNS.BOXPLOT CREATES BOXPLOTS THAT SHOW SUMMARY STATISTICS



SEABORN BOXPLOT SYNTAX

SYNTAX OF SNS.BOXPLOT



PARAMETERS OF SNS.BOXPLOT

THE PARAMETERS OF SNS.BOXPLOT

Parameter	What it does	Format	Default
data	Specify DataFrame to plot	DataFrame	
X	Map variable to x-axis	variable (numeric or categorical)	
У	Map variable to y-axis	variable (numeric or categorical)	
color	Specify color of the boxes	color name	blue (but depends on settings
width	Specify width of the boxes	Number between 0 and 1	
hue	Map a variable to the color (i.e., change the color of the boxes according to the values of a variable	variable (numeric or categorical)	

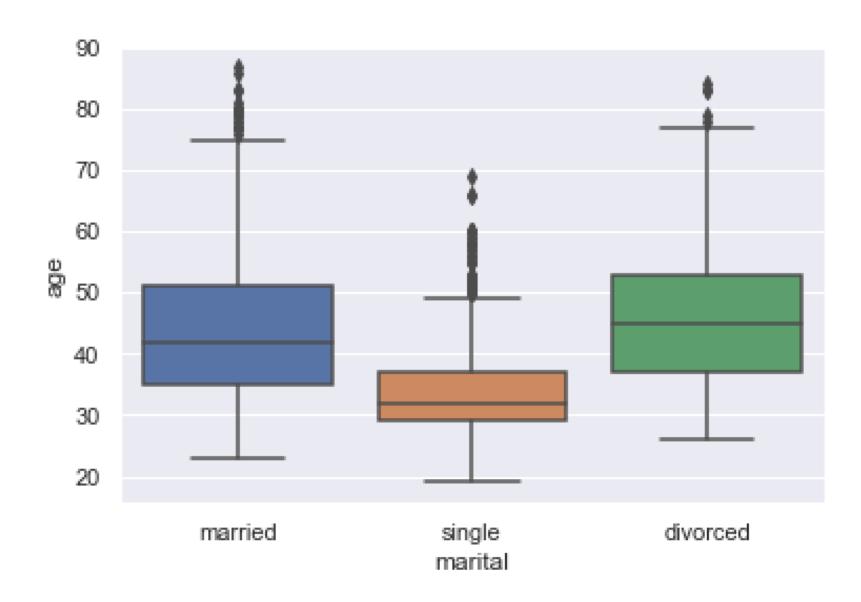
Note: sns.boxplot() has many more parameters, but these are the most commonly used

EXAMPLES OF SNS.BOXPLOT

EXAMPLE 1: SIMPLE BOXPLOT

Here, we're setting the DataFrame
with the data parameter, and
mapping variables to the x and y axes

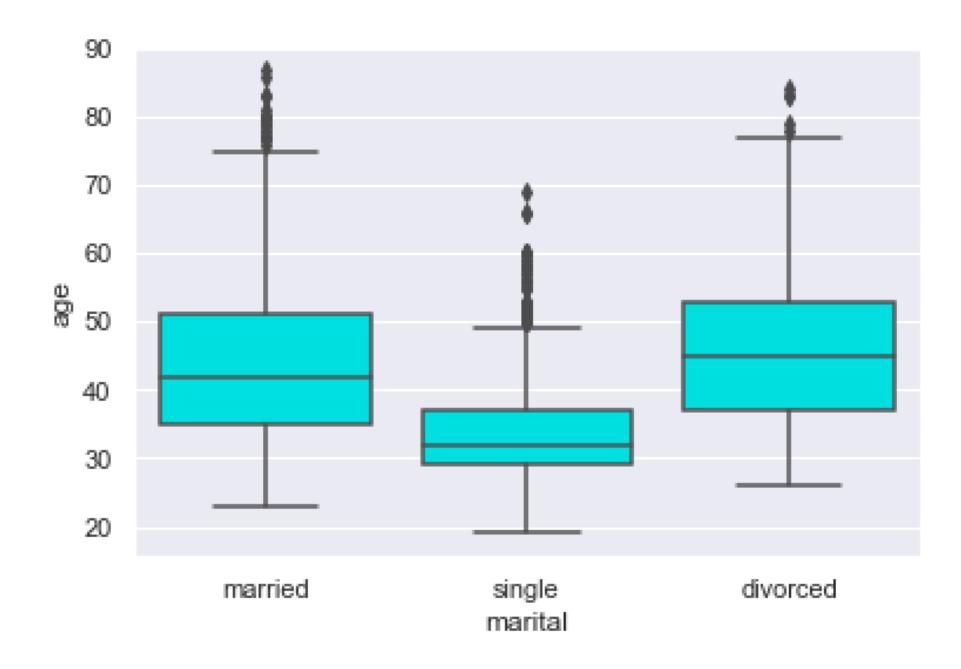
EXAMPLE 1: SIMPLE BOXPLOT



EXAMPLE 2: CHANGE THE BOX COLOR

,y = 'age'
,color = 'aqua'
)
Here, we're using the color
parameter to set the color of
the bars to 'aqua'

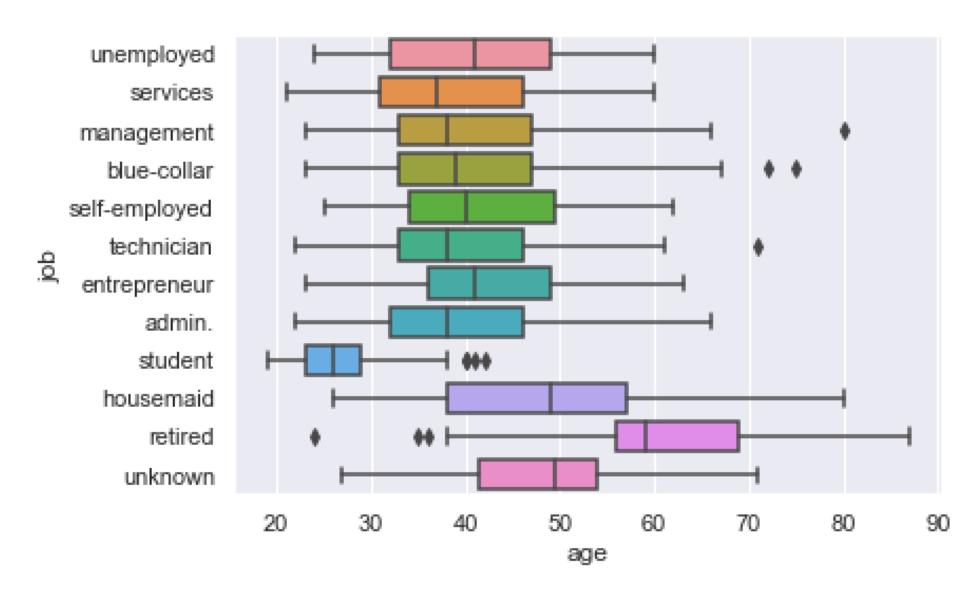
EXAMPLE 2: CHANGE THE BOX COLOR



EXAMPLE 3: CREATE A HORIZONTAL BOXPLOT

Here, we're mapping our categorical variable to the y axis, and the numeric variable to the x axis to "flip" the boxplot to a horizontal orientation.

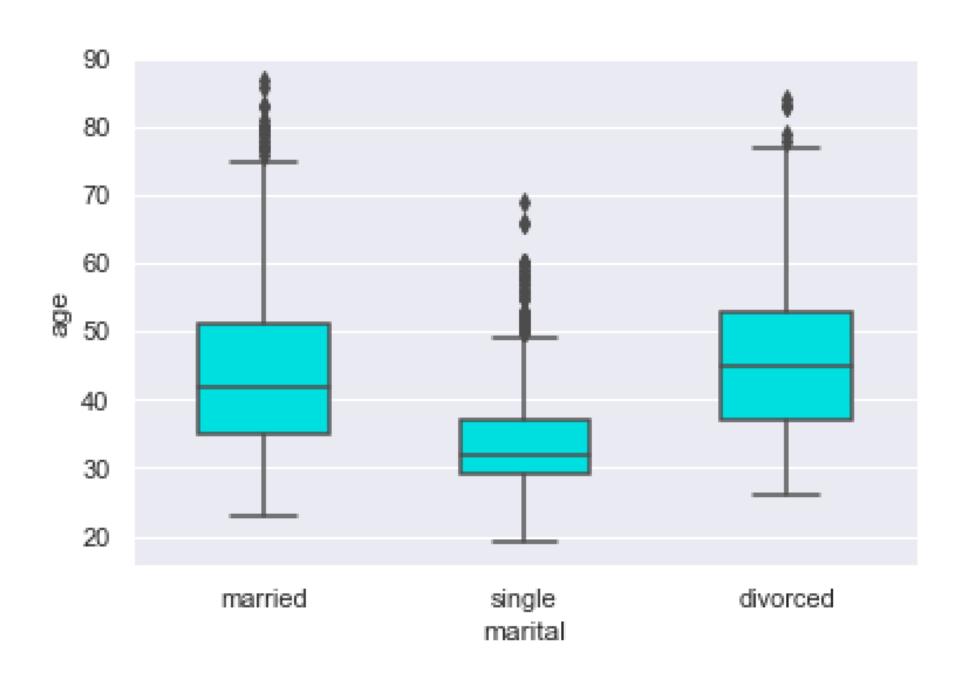
EXAMPLE 3: CREATE A HORIZONTAL BOXPLOT



EXAMPLE 4: CHANGE THE WIDTH OF THE BOXES

Here, we're using the width parameter to change the width of the boxes

EXAMPLE 4: CHANGE THE WIDTH OF THE BOXES

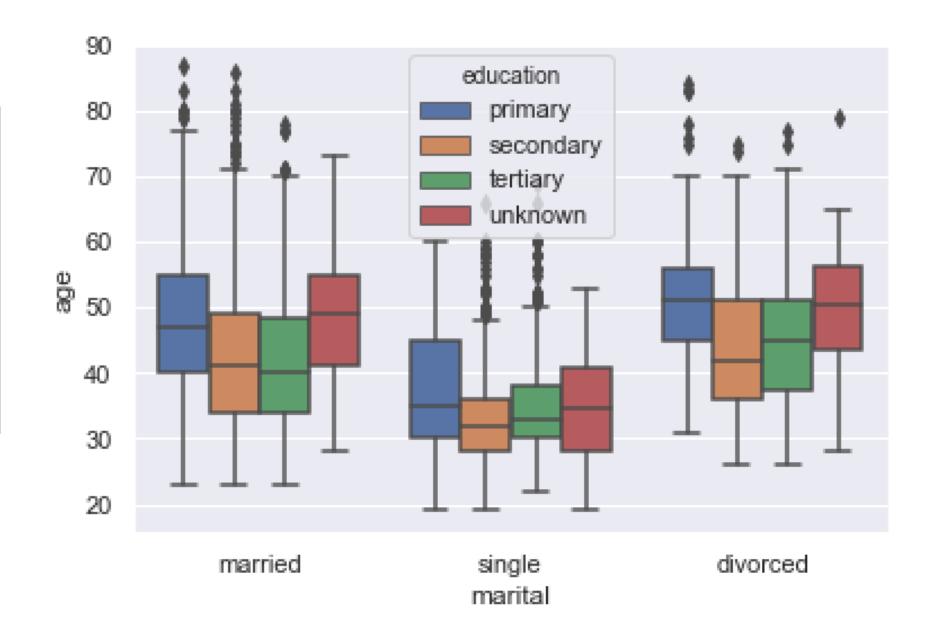


EXAMPLE 5: CREATE A 'DODGED' BOXPLOT

Here, we're mapping another categorical variable (education) to the hue parameter

This will create a "dodged" boxplot, that will show boxes for multiple categories (education and marital)

EXAMPLE 5: CREATE A 'DODGED' BOXPLOT



RECAP

RECAP OF WHAT WE LEARNED

- How to use the sns.boxplot() function to create boxplots
- How to modify your boxplots
 - change the box color
 - map a variable to the box color
 - change the width of the boxes
 - create a horizontal boxplot
 - create a 'dodged' boxplot
- **Next Steps**: Watch the code walkthrough video for step-by-step code examples of sns.boxplot()