14.3.4 # Find the Average Trip Duration by Age

> **You** think about other questions the data can help answer. You've unpacked the when, the where, and the who, but what about "how long"? You need to determine the average ride duration.

We know the breakdown of riders by gender, but learning other details about the riders will further assist our analysis. Let's take a look at the average duration of a bike ride, by age. This will help us set expectations for trip duration in Des Moines.
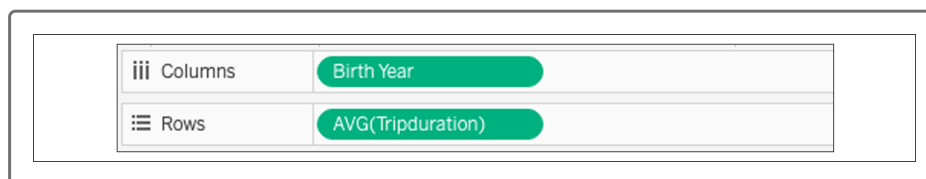
What Is the Average Trip Duration by Age?

Begin by creating a new worksheet named "Average Trip Duration." The next step is to identify the measures and dimensions needed.
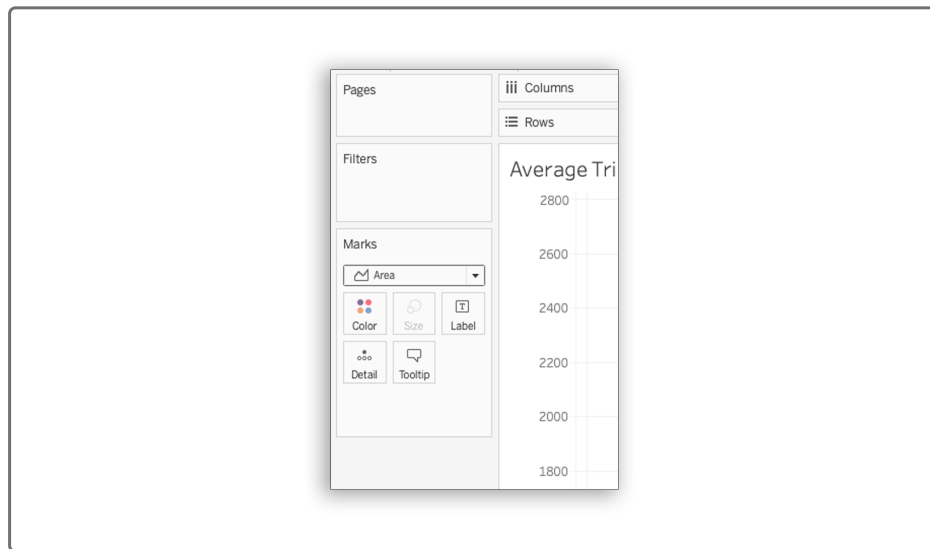
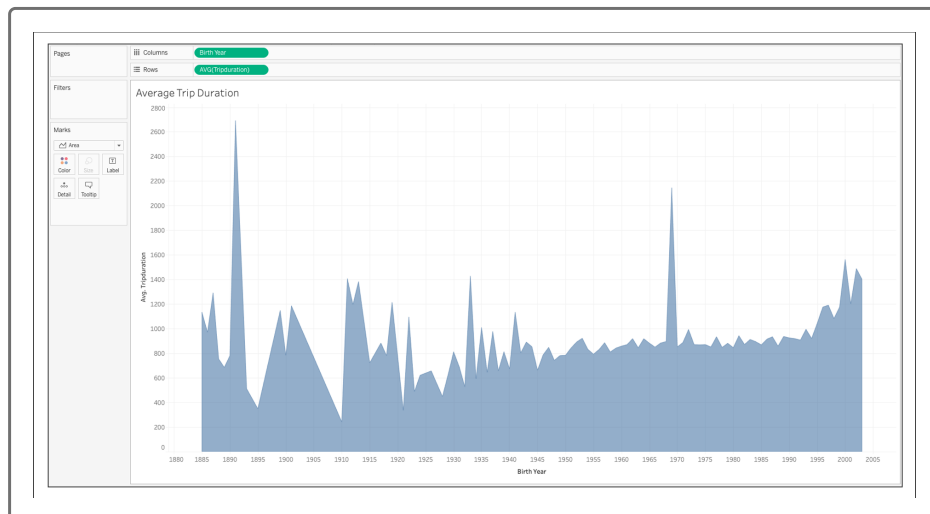Nice work! We have the measures and dimensions we need. Drag Tripduration and Birth Year to the worksheet.

We'll create an area chart, which will best represent this data. Area charts in Tableau are essentially line charts that are filled in below the line. Get started by dragging the Birth Year dimension into the Columns section, and the Tripduration measure into the Rows section. Be sure to change the Tripduration to be the average rather than the sum, as shown in the following image:

Next, go to the Marks section and change the visualization type to Area:

Your worksheet will now look like the following:

Great job—we have a plot that represents our data well. Take a moment to view the worksheet and think about what the data is telling us. How is birth year related to the length of a bike ride?