

CRDDS – Center for Research Data & Digital Scholarship

Introduction to Interactive Data Visualization with Tableau

Presented by Tim Dunn

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CU Earth Lab

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tableau public

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Driver Download

Find the driver for your database so that you can connect Tableau to your data.

To get the right driver, you might need to know your Tableau product version. In Tableau Desktop, select **Help > About Tableau**. In Tableau Server, click the information icon ⓘ and select **About Tableau Server**.

Data Source

All



Operating System

Windows



Bit Version

64-bit



Actian Matrix (ParAccel)



Actian Vector



Amazon Athena




Amazon Aurora



Amazon EMR

https://github.com/auroraTDunn/Intro_to_Tableau_Spring2018

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https://github.com/auroraTDunn/Intro_to_Ta

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**Enough Talk
Time to Play**

Dimensions contain qualitative values (such as names, dates, or geographical data). You can use dimensions to categorize, segment, and reveal the details in your data. Dimensions affect the level of detail in the view.

Measures contain numeric, quantitative values that you can measure. You can apply calculations to them and aggregate them. When you drag a measure into the view, Tableau applies an aggregation to that measure (by default).

Blue field => discrete data

Green field => continuous data

Exercise: Dogs versus Cats who does America love most?

- **Open Households.xlsx and clean it**
- **‘Add’ the Dogs.xlsx data, clean and join it**
- **‘Add’ the Cats.xlsx data, clean and join it**
- **Are you sure you have both joined correctly?**

Exercise: Dogs versus Cats who does America love most?

- **Create a new Worksheet and create a 'Text Table' visualization of 'Number of Pet Households' per 'Location'**
- **Create a 'Top' filter to find the 5 states with the highest 'Number of Pet Households'**
- **What are the bottom 5?**

Exercise: Dogs versus Cats who does America love most?

- **Create a new 'Calculated Field' for 'Percentage of Pet Households'**
- **Create a filter for 'Percentage of Pet Households' < 50%**
- **Create a filter for 'Percentage of Pet Households' > 50%**

Exercise: Dogs versus Cats who does America love most?

- **Create a new Worksheet**
- **Create a 'Text Table' showing the 'Dog Owning Households' and 'Cat Owning Households' per 'Location'**
- **Create a filter to find the states with more 'Dog Owning Households' than 'Cat Owning Households'**
- **Which states prefer cats over dogs?**
- **Create a 'Calculated Field' to show the 'Difference' between Dog and Cat owning households and add it to your Text Table**

Exercise: Dogs versus Cats who does America love most?

- **Create a new Worksheet and create a 'side-by-side bars' plot of 'Dog Owning Households' and 'Cat Owning Households' per 'Location'**

Exercise: Dogs versus Cats who does America love most?

- **Create a new Worksheet and create a 'treemaps' plot of 'Dog Owning Households' and 'Cat Owning Households' per 'Location'**

Exercise: Dogs versus Cats who does America love most?

- **Create a new Worksheet and create a 'packed bubbles plot of 'Dog Owning Households' and 'Cat Owning Households' per 'Location'**

Exercise: Dogs versus Cats who does America love most?

- **Create a new Worksheet and create a 'Scatter plots' plot of 'Dog Owning Households' and 'Cat Owning Households' per 'Location'**

Exercise: Dogs versus Cats who does America love most?

- **Create a new worksheet**
- **Right click on 'Location' under Dimensions and set 'Geographic Role' to be 'State/Province'**
- **Drag 'Location' into the middle of the plotting region. A map of the US should pop up with a dot in the center of each state**
- **Drag 'Dog Owning Households' onto 'Color' and repeat this onto 'Label'**
- **Change the title to 'Dog Owning Households'**

Exercise: Dogs versus Cats who does America love most?

- **Save your Book to you 'Tableau Public' web storage page.**