

Chico State DSI Workshop: Tableau Public

3en Juliano

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What is Tableau Public?

Hands–Oı Activity

Next Steps

Resources

A Brief Introduction to Tableau Public

Chico State Data Science Initiative Workshop

Ben Juliano

Meriam Library, Room MLIB 442 2:00–3:00 p.m.

April 17, 2018



Presentation Outline

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Motivatio

What is Tableau

Public? Hands-Or

Activity

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- Motivation
- What is Tableau Public?
- Mands-On Activity
- 4 Next Steps
- Resources









Motivation

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What is Tableau Public?

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- Data visualization "is viewed by many disciplines as a modern equivalent of visual communication; it involves the creation and study of the visual representation of data."
- Data visualization addresses the data analysis and visualization challenges associated with big data.
- All major industries, including the government, have to deal with rapidly growing data sets and how information can be efficiently and correctly extracted, analyzed, and summarized to support informed decision making.

 From Wikipedia at https://en.wikipedia.org/wiki/Data_visualization and https://en.wikipedia.org/wiki/Big_data



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You don't have to be a big company to appreciate data visualization!

Modern vehicles



Personal health









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Check out some dashboards I have built ... https://public.tableau.com/profile/ben.juliano



The Tableau Product Line

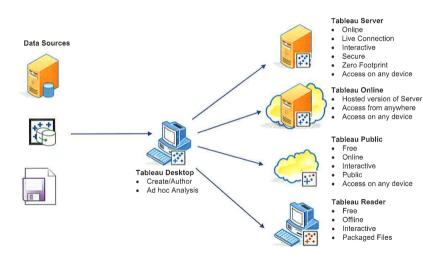
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- **Tableau Public** is a free service that lets anyone publish interactive data visualizations (a.k.a. "vizzes") to the web.
- Vizzes published to Tableau Public can be embeded in webpages and blogs, can be shared via social media or email, and can be made available for download to other users.
- Visualizations are created in the accompanying app Tableau (Desktop) Public Edition (or another edition of Tableau Desktop) — no programming skills are required.



What is Tableau Public?

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- The Tableau Public website features a gallery of some vizzes created by people in the community.
- See https://public.tableau.com/enus/s/gallery





Hands-On Activity

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Are you ready? Let's get setup for our short activity for today ...

- Download the Tableau Public app from https://public.tableau.com/en-us/s/download and install it on your computer.
- 2 Discuss some terminology and some features of the application.
- Go to the Tableau Resources page at https://public.tableau.com/en-us/s/resources, click Sample Data, and from the Science group download the Magnitude 6+ Earthquakes dataset.
- Oiscuss some features of this dataset.
- Oreate a Tableau Public account to save your work.



Hands-On Activity: Application Terminology

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Term	MS Excel	Tableau
Worksheet	tabbed doc in a workbook	tabbed doc in a workbook
Workbook	an Excel spreadsheet file	a Tableau (packaged) file
Dashboard	N/A	interactive collection of worksheets
Story	N/A	interactive collection of worksheets
		and/or dashboards



Hands–On Activity: *Magnitude 6+ Earthquakes* dataset

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Features

- 17 columns, 8313 rows
- Data spans 1900 through March 2014
- For each event: date, time, latitude, longitude, depth, magnitude, etc.
 - see USGS Earthquake Hazards Program spreadsheet format



Hands–On Activity: *Magnitude 6+ Earthquakes* dataset

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What sort of questions are there?

- Where do the most prevalent magnitude 6+ earthquakes occur?
- Have the frequency of magnitude 6+ earthquakes been increasing? If so, in what area(s)?
- Does the data provide us with sufficient information to predict where the next "big" earthquake may occur?



Hands-On Activity: Application Terminology

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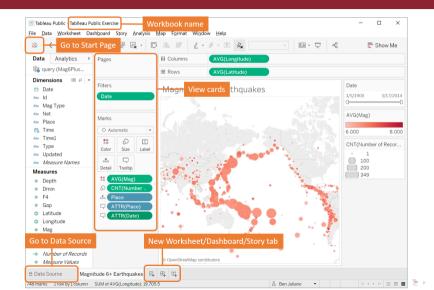
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Recommendations to go further with this ...

- Learn more about Tableau Public
 - How-to Videos
 - Sample Data
 - Live Training
 - Super Data Science @ YouTube
 - Tableau 10 Essential Training @ Lynda.com
- Learn more about our Data Science certificate



Resources

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- Ben Juliano's Tableau Public site, https://public.tableau.com/profile/ben.juliano
- Chico State Data Science Initiative website, https://datascience.csuchico.edu
- Tableau Public Frequently Asked Questions site, https://community.tableau.com/docs/DOC-9135
- Tableau Public download site, https://public.tableau.com/en-us/s/download
- Tableau Public Gallery site, https://public.tableau.com/en-us/s/gallery
- Tableau Public Resources site, https://public.tableau.com/en-us/s/resources