

Unlocking the Power of Community Data: Visualizing and Sharing Your Local Data

October 1, 2024

Virtual 1:30 to 3:30 pm – Recorded

1:30 **Welcome & Workshop Introduction**

Instructor introductions

We will do participant introductions in person on October 9th when we review your homework assignment.

Thank you to the [Midwest Big Data Hub](#) for providing funding to develop this workshop that focuses on *Data Science Education and Workforce Development*.

The goals of this workshop are

- 1) Increasing local capacity for data literacy
- 2) Increasing technical skills to access data
- 3) Increasing ability to share local data

Session 2 and 3 overview

October 9, 2024 - 9:00am-4:00pm - Onsite Hands-on Workshop in Dubuque, Iowa where we will learn how to use Tableau

October 17, 2024 - 2:00pm-4:00pm - Online Zoom where we will learn a few more Tableau skills and share a viz worked on

1:40 **Overview of Community Data and Sharing that Data (case examples)**

https://indicators.extension.iastate.edu/projects/training/Community_Data_Sharing.pdf

1:55 Discussion – Data topics and formats of community data (Mentimeter)

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Or use QR code



2:20 <-Brief 5 min break->

- 2:25 **Tabular Data:** Often the format available from existing sources – Census, State data, Open Gov
- *Powerpoint:* https://indicators.extension.iastate.edu/projects/training/working_with_data.pptx
 - Data Formats
 - Common table-based file types
 - Common spatial data file types
 - Wide Data vs Long Data
 - Putting it all together

2:50 **Preparing for in-person workshop 9-4:00 October 9th.**

Logistics: Parking & Lunch; Equipment; WiFi
Dubuque County Extension Office
14858 West Ridge Lane, Suite 2
Dubuque, Iowa 52003

2:55 **What is the Tableau family of software - Tableau Public?**

From Tableau: “*Tableau* is a visual analytics platform transforming the way we use data to solve problems

- empowering people and organizations to make the most of their data.”

- Software suite that is now part of Salesforce
- Paid Products But they also provide a Free software called Tableau Public – which we will use!
 - <https://public.tableau.com/app/discover>
- Overview: <https://store.extension.iastate.edu/product/16808>

Bailey's Examples:

- [World No. 1's at Wimbledon by Scott Teal](#)
 - What I like: The timeline showing the No. 1 ranking for all players, popups have a lot of detailed information, color.
 - I wish the visual showed the number of Wimbledon wins by player instead of only showing that in the popup
- [Iowa WARN Notifications by Iowa Workforce Development Labor Market Information Division](#)
 - A more typical data dashboard with a lot of information and multiple ways to filter the data
- [Disposed Violent Crime Charges by County by The Des Moines Register](#)
 - Example of a dashboard embedded into a website/news article
 - Simple map showing counts with more details and a time trend in the popup
 - <https://public.tableau.com/app/profile/amber.staples/viz/law-enforcement-agencies/ViolentCrime>

Chris's Examples:

- [Iowa DOT Crash Data – days of the week](#)
<https://public.tableau.com/app/profile/christopher.seeger/viz/Crashesdemoofdaysofweek/Sheet12>
 - Simple interactive of a Sheet
- [City Park Locations](#)
<https://public.tableau.com/app/profile/henry.m.lopez/viz/CityParkslocations/Parksratingsdashboard>
 - A Basic map and table combo example
- [River Conditions](#)
 - Nice compact interface with a graphic header
- [Recreational Visits to National Parks \(1966-2016\)](#)
 - Several interactive mini timeline charts
- [US National Parks Visitation Trends](#)
 - A Busier interface – but main data points are in the top header
- [State of Nebraska Community Health Data](#)
 - Toggle multiple indicators by selecting a single menu item
- [Maine school costs poorer vs wealthier towns](#)
 - Scatter plot
 - Easy to select county

Jay's example will be revealed next week!

Setting up a free Tableau Public and GitHub account.

Desktop vs Web Based interface – we are using Web Based

Scribe [Demo](#)

[What is Git Hub?](#) (Optionally Setup an account)

Scribe [Demo](#)

3:25 Homework

- Setup Tableau Public account, Confirm your access to Google Sheets, Optional Git Hub account setup
- Look at the Vizzes Chris and Bailey shared during presentation
- Find a different visualization that you like – Does not have to be Tableau, – email link to the viz to Chris before end of workday October 7
- Optional, bring a dataset you are interested in visualizing to the workshop

Q & A

3:30 **Conclude**