

Not Another Bar Chart! Teaching Graph Choice with DataClassroom

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Resources from Workshop: [Workshop slidedeck](#)

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Looking for more?

- [Data Literacy Series workshops](#) (online, synchronous workshops about overcoming common student data misconceptions)
 - [Transform Teaching with Data Academy](#) (online course, cohort-based to dive into integrating data successfully into our teaching practices)
 - [Not Just Bar Charts! Making Better Graphs Mini-Courses](#) (online, asynchronous mini-courses around graph choice, data visualization best practices, and data storytelling)
 - [Sign up to join the mailing list](#) of upcoming workshop and curriculum opportunities
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Introductions

1. **Reflection: Introductions** **post your responses in the Chat
 - a. What are you hoping to gain from this session?

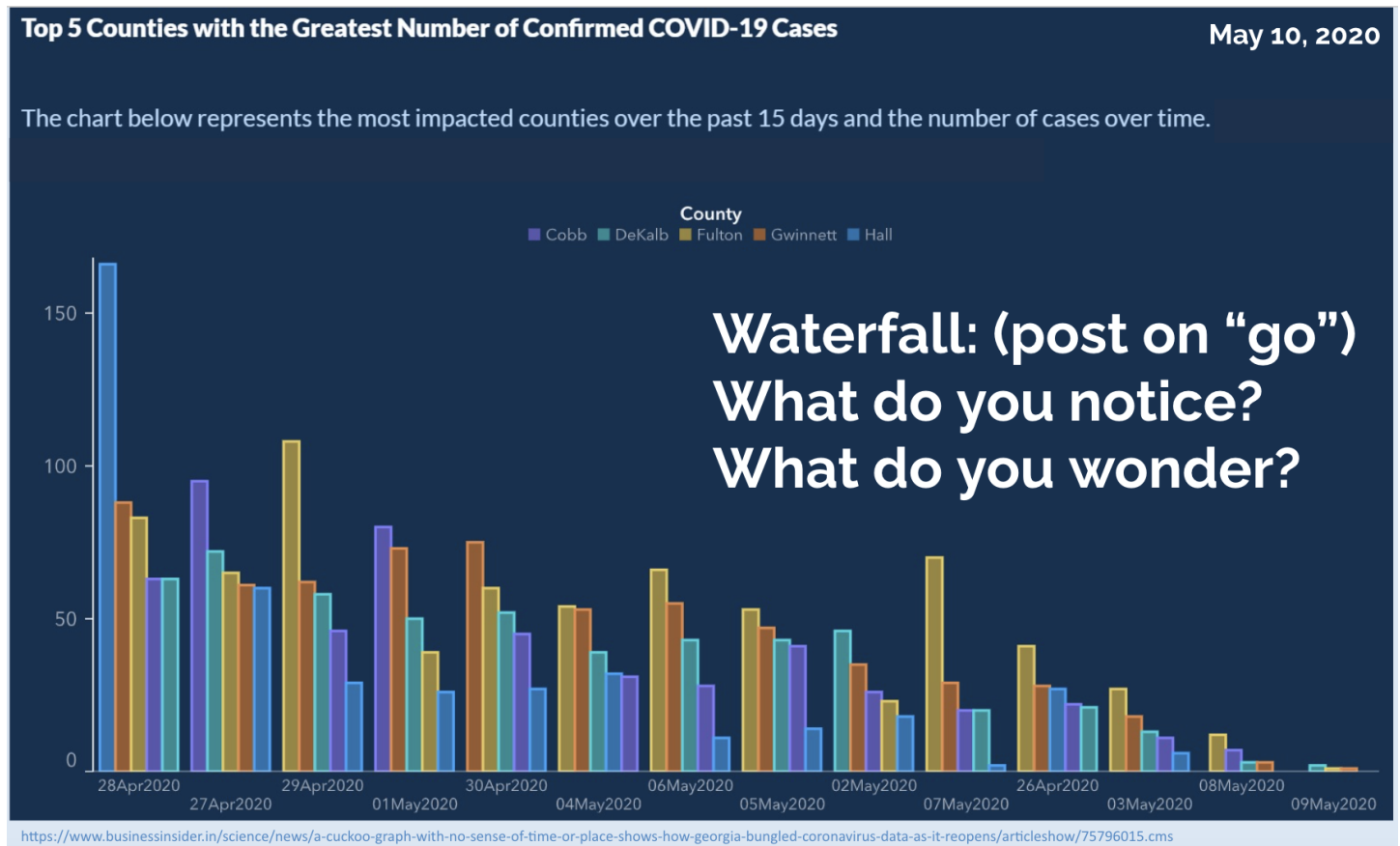
All are encouraged to:

- Participate fully, openly, and inclusively for yourself and others
- Lean into your learning edge, it's OK to be raggedy
- Acknowledge and respect differences and similarities
- Speak from personal experience – use “I” statements

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Graph Type Context Setting

2. **What do you notice? What do you wonder?** **Waterfall: post your responses in the Chat when Kristin says “go”



3. **Reflection: Graph Choice** **post your responses in the Chat

a. What are the 3 most common graph types that your students make?

4. **Activity: Create a Graph Choice Matrix**

- Make a copy of the Google Slides document: <https://dataspire.tiny.us/graph-activity>
- Play around with the graph tiles
- How did it feel to think about graph choice from this perspective? **post your responses in the Chat

Graph Method Context Setting

5. **Activity: When do Cherry Trees blossom?**

- Look at data
- Decide what kind of graph you would use (e.g., what variables where, what kind of graph)

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Row#	Year	Full-flowering date (Date of Year)	Time Period	Reference Name
5	853	104	Pre-Industrialization	MONTOKUTENNO-JITSUROKU
58	1034	96	Pre-Industrialization	EST-from-WF(EIGA-MONOGATARI)
73	1102	104	Pre-Industrialization	CHUYUKI
148	1233	105	Pre-Industrialization	MEIGETSUKI
163	1267	105	Pre-Industrialization	MISININ-KAMPAKUKI
209	1363	107	Pre-Industrialization	MOROMORIKI
234	1406	102	Pre-Industrialization	(SHIRYO-SORAN)
260	1435	95	Pre-Industrialization	KANMON-GYOKI(FUSHIMI)
292	1474	98	Pre-Industrialization	ENROKUCHOKASHU
383	1567	108	Pre-Industrialization	OYUDONONO-UENO-NIKKI
407	1597	114	Pre-Industrialization	GIENJUNO-NIKKI(DAIGO)
413	1603	99	Pre-Industrialization	GIENJUNO-NIKKI(DAIGO)
514	1721	95	Pre-Industrialization	MOTOHIRO-KOKI
613	1822	102	Pre-Industrialization	RAI-SANYO-NIPPU
639	1848	102	Pre-Industrialization	MIAKE-SHONOSUKE-NIKKI
686	1905	105	Post-Industrialization	NEWS-PAPER(ARASHIYAMA)
706	1927	107	Post-Industrialization	KEIHAN RAILWAY ADV(ARASHIYAMA)
714	1935	102	Post-Industrialization	NHK(ARASHIYAMA)
779	2004	92	Post-Industrialization	NEWS-PAPER(ARASHIYAMA)
799	2008	102	Post-Industrialization	Washington Post March 29, 2021

Subset of dataset available from DataClassroom's [Early Spring in Kyoto? Cherry Tree Blossom Dates- Historical Data](#)

c. Share in the Chat

- i. What kind of graph did you plan?
- ii. What variables would you plot where?
- iii. Which data did you use?

Graphing Reflection & Share-out

6. Reflection: Implications? **post your responses in the Chat

- a. How have these activities prompted you to think differently about using data visualizations in your teaching/work?
- b. How can you expand how you use data visualizations in your teaching/work?

7. Grab a free spot for a “Time Saving Strategy Call” with Kristin: gain personalized resources and strategies on this and other data topics <https://calendly.com/dataspire/chat>

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DataClassroom Resources

- [DataClassroom Website](#)
- [DataClassroom Full Brochure](#)
- [Getting Started Quick-Start Guide](#)
- [Blog post introducing Graph Wizard](#)
- [Blog post: The End of the Bar Graph?](#)

Data Literacy Resources:

- [Building Blocks for Data Literacy](#) (Hunter-Thomson & Schauffler, 2021)
- *Dataspire's Graph Type Matrix Resources:* <https://dataspire.org/graph-type-matrix-resources>
- *Making Effective Data Visualization (with links to platforms):*
<https://dataspire.org/making-data-visualizations>
- [Common Graph Types Reference](#): What are they? How to make sense of them? How to make them?
- *Dataspire's running list of [data and science literacy related books](#) that we enjoy and share in case any are of interest to you.*
- *Dataspire's [Developing CER with Data Framework](#)*
- *Lesson Tweaks: examples posted in the <https://dataspire.org/blog/>*
- *Data Literacy Instructional Strategies: <https://dataspire.org/instructional-strategies>*
- *Suggestions for where to find data to use:*
<https://dataspire.org/finding-authentic-and-relevant-data-to-use>
- *Dataspire's Data Bites: <https://dataspire.org/data-bites>*
- *NSTA's Science Scope Interdisciplinary Ideas "Data Literacy 101" articles:*
<https://dataspire.org/data-literacy-101-articles>
- Dorsey (2021) "[Teaching in a World of Messy Data](#)" The Science Teacher 88(5) p.8

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