WHO NEEDS TO TELL STORIES WITH DATA?

Data storytelling is more than sharing data—at its most simple, it’s about designing charts and tables that make sense to the people who will be using them and help those people make better, faster decisions.

While making a chart is as easy as a few clicks, doing it well requires much more. There is a science to how our eyes and minds process information as well as an art to making good graphic design choices. This comes together in an effective data presentation when the work is readable, usable, and above all actionable—not just aesthetically pleasing (though we’ll certainly address that too).

As information professionals, we are well-positioned to understand and design for the needs of our users, to interrogate our data sources thoughtfully, and to ask future-thinking questions. This course will also draw on elements from cognitive psychology, user experience, data journalism, graphic design, business, and more. This multidisciplinary approach will take us on a grand tour that will touch on many aspects of data analysis and will serve as an excellent introduction to other data-oriented courses in the iSchool master’s program.
Why should you take this course? Whether you’re interested in a career in libraries, archives, UX, information architecture, information security, or another field, you will need to analyze data and tell stories with data. You might have ticketing data to share, usage logs to query, or collection management decisions to make. Throughout your career, you will make recommendations to your colleagues and management using data, and you will want to present a compelling case. Whether or not this is the only data-centric class you take in your time at the iSchool, I hope you will gain skills that will serve you well in the rest of your professional career.

There are no prerequisites for this course other than curiosity, the ability to work independently, and the desire to build your professional toolkit. No programming experience is required. If you are a complete novice with data analysis and visualization, that’s perfect! If you’re experienced with data viz best practices but eager to build your expertise in communicating better, that works too, but I encourage you to take on any optional challenges in assignments and also suggest further modifications so they can be appropriately stimulating for your skill level. Allons-y! 

LEARNING OBJECTIVES

- Effectively do exploratory and explanatory data analysis
- Craft thoughtfully selected charts and charts that illuminate the data
- Design an enlightening, interactive dashboard for a targeted audience
- Implement core concepts of usability and accessibility
- Apply the basics of clean layout and graphic design
- Express creative thinking by producing an innovative data representation
- Learn the basics of working with clients in a professional setting
- Build foundational skills for presenting to an audience
- Work with various data analysis and visualization tools (specifically Excel, Tableau, & SQL) and pick the best tool for the job
- Explore foundational and new theory behind data storytelling and visualization, and then implement these as best practices

COURSE MATERIALS

Hardware and software
The software packages we will use are freely available for students. Instructions for obtaining Tableau Desktop and Tableau Prep activation keys will be provided to you during the semester. You can download and install Microsoft Office through the university’s Office 365 portal. Your device should meet the minimum requirements to run Tableau Desktop. If you are concerned about this at the beginning of the semester, you can download and install the program with the 2-week free trial (or Tableau Public, the free version of Tableau Desktop) to see if it runs on your machine. You are welcome to try versions as old as 2020.2 (but note that you should install the latest patch of the older versions so that important security updates are included).

You will have access to the desktop machines and the software required for the course via the iSchool computer lab even if you do not have a laptop. Please note that the computer lab permits no food or drinks other than water in spill-proof containers.
Other supplies
A normal semester involves a number of small group activities and low-fidelity prototyping. If it becomes necessary to meet remotely, please be prepared with the following:

- A functioning webcam and mic
- A Sharpie marker (or alternative that will clearly be visible if you draw with it and hold the drawing up to your webcam)
- A pack of markers (something like this is fine)
- Paper for drawing (a lined notebook is fine)

Book to purchase
This is a basic graphic design book that explains important design concepts really well. It will be a necessary resource when revising your work or when providing feedback to your peers. Used copies are fine.


Books provided for you
Our main textbook for the course is Storytelling with Data by Cole Nussbaumer Knaflic. We’ll also be reading works from other experts in the field of data visualization, from classics like Edward Tufte to contemporary experts in academia and industry. They were carefully selected to complement the other course content, and it is expected that you will complete all readings for this course. The following will comprise most of our readings and are available through links on Canvas and through UT Libraries. See the course schedule for a full list of readings.

https://search.lib.utexas.edu/permalink/01UTAU_INST/171befj/alma991057996053606011


https://search.lib.utexas.edu/permalink/01UTAU_INST/171befj/alma991057997829306011

https://search.lib.utexas.edu/permalink/01UTAU_INST/171befj/alma991057933631806011
Books and other resources to consider
While the in-class software tutorials will cover the basics for completing assignments, some students prefer to augment their learning with additional resources.

Get free access to Tableau’s eLearning platform by signing up for a Student license here. This is a collection of self-paced, interactive lessons with video.

I recommend the following books for students who prefer to learn software from textbooks:


ASSIGNMENTS

Brief descriptions of major course assignments appear below. More details will be provided in class and on Canvas.

Discussion questions (5% of final grade): Prior to each class, respond to at least two of the discussion questions based on the upcoming class’s readings. Your responses will give me a sense of what you are most interested in, and they may be used as the basis for group discussions the next day. A thread for each class’s questions is available on Canvas.

Visualization blog post (5% of final grade): Examining the works of others is a great way to develop your eye and build your own skillset. Write a post on Canvas about a data presentation you have found (350ish words). Dissect the visualization, addressing what data are being shown (and if the source is cited), who you think the audience is, the goals of the work, and why/why not the data presentation is effective.

Data diary (10% of final grade): This assignment addresses two important elements: that data surrounds us, and that storytelling with data is as much of an art as it is a science. Before we dive into best practices, we’ll address the fun, creativity, beauty, and silliness that’s instrumental to the field. Research and gather data about yourself on a topic of your choice and keep a data diary in Excel for a week. Examples include the music
you listen to, your phone app use, how much time you spend on coursework, how much media you consume and what kinds, etc. Build a data presentation to showcase what you've collected. Do not use Excel or Tableau to produce your final deliverable.

**Excel and Tableau assignments** (30% of final grade): A series of short analytical assignments designed to complement and reinforce the tutorials and hands-on work done in class. Specifics will be available on Canvas for each assignment.

**The Moth story exercise and other short assignments** (5% of final grade): Analyzing examples of storytelling can help us learn how to recognize narrative elements and opportunities to integrate narrative in our own work. In this short assignment, you'll analyze several short recordings of live storytelling from The Moth, a podcast and series of live storytelling events hosted around the country.

**Midterm project** (15% of final grade): Build a polished data visualization based on a topic of your choice using a dataset of your choice. You will present the dashboard to your classmates in a recorded presentation. Feedback on your classmates’ dashboards will be part of your grade. The point of this assignment is two-fold: to provide a low-stakes opportunity to build a data visualization about something you're really excited about and to focus on good presentation skills.

**Iron Viz dashboard** (5% of final grade): You've seen Iron Chef, right? This is the same thing except with data! During this timed in-class activity, you will create a Tableau dashboard based on a dataset you've never seen before and publish your dashboard.

**Final project summary, deliverables and presentation** (25% of final grade): This culminating project is a hands-on experience to design, prototype, and develop a complex example of a data visualization dashboard with storytelling elements that will be an asset to your professional portfolio. Your project must have a clear and specific audience and should be developed in collaboration with an organization of your choice. The final project includes the data presentation, associated documentation, and a presentation to the class. Your formal written feedback on a peer's draft will also be included in your grade.

**GRADING**

Here's how to do your best on course assignments:

- **Well before the deadline**, read the assignment instructions in detail. Make note of anything
that sounds particularly challenging. Reach out to me if you need clarity about the assignment at least a day before the assignment is due.

- If you have questions while you work, first start by consulting your study buddy. For software-related questions, Googling often yields helpful results. The Tableau user community is fantastic and quite thorough—if you are having trouble doing something, someone else has almost certainly run into the same issue. If you exhaust both of these options, reach out to me at least a day before the assignment is due.
- Before you hand in your work, read the instructions again to make sure you completed everything.

Here are the primary things I will look for when I grade:
- Did you make thoughtful design choices, putting the best practices from class and from our readings to use?
- Did you complete all components of the exercise per my instructions?

This is how your final grade will be reported:

- A = 93-100
- A- = 90-92
- B+ = 87-89
- B = 83-86
- B- = 80-82
- C+ = 77-79
- C = 73-76
- C- = 70-72
- D+ = 67-69
- D = 63-66
- D- = 60-62
- F= 0-59

OTHER COURSE POLICIES

Be excellent to each other**: Treat others as you would like to be treated. Give presenters and your classmates your full attention. Be courteous and thoughtful with your feedback. Limit computer/phone use to course-related activities.

Help one another: You bring your unique experiences to this course, and I encourage you to share that perspective with the class. I also highly recommend you select a study buddy in the course. In addition to sharing notes if either of you miss a class, having a peer with whom you can discuss ideas and go to for help is invaluable.

Steal like an artist but cite your sources: To be clear, this is not an endorsement of plagiarism but instead acknowledgement that that it is a rare thing for a work to be truly original—we’re often inspired by the creations of others. If your work draws from someone else’s work in any way, cite it.

ASSIGNMENT POLICIES

- Unless otherwise specified, turn in assignments through Canvas.
- There will be no group projects. You’ll do plenty of these at the iSchool, and I want everyone to have a chance to develop all of the skills in the course.
- While these assignments will represent your individual effort, I encourage you to see the advice and feedback of your peers.
- If something occurs and you need an extension on an assignment or another accommodation, talk to me as soon as possible. I will be MUCH more accommodating.
- Previously graded assignments cannot be resubmitted with edits and corrections for a higher grade unless we discuss it in advance of your resubmission.
- Late assignments will be docked 10% for each day delayed.
If you procrastinate, make it structured procrastination: You will get more out of this course, especially peer feedback opportunities, if you get an early start on your dashboard projects. Read more about John Perry's structured procrastination in his essay “How to Procrastinate and Still Get Things Done.”

Read the instructions and ask for help: I find that most point deductions are because the submitted assignment did not follow the stated instructions and the student did not ask for clarification. If you email a photo of an adorable hedgehog to me before your final project is due, you will receive a small amount of extra credit. Photos of squirrels will also be accepted on a case-by-case basis.

Communicate with me: My personal email a.s.cato@gmail.com is the fastest and most reliable way to reach me. Please include the course number (INF385T) in the subject line. Allow a 24-hour window for responses.

I'm here to help you: Take advantage of it by requesting office hours to talk through any aspect of the course you don't understand. Tableau is deceptively complicated, and you shouldn't feel embarrassed if you don't understand something immediately. Note that I may not be able to respond if you email me hours before an assignment is due, so the sooner the better.

Adopt an attitude that feedback is always welcome: Give thoughtful constructive criticism to your peers, and be prepared to receive it too. Even if you don't agree with the feedback, it's a good opportunity to see your work from someone else's perspective. You're welcome to share feedback with me as well. A short email to say, “I really liked that activity” or “I didn't get that lecture at all—it needed more examples” is very helpful for me. I'll request feedback from you on the course mid-way through the semester, but please don't wait if something crosses your mind.

Attendance: While I will not take attendance, please be aware that a substantial portion of course content includes hands-on labs and activities. As a result, repeatedly missing classes and not participating in activities can impact your performance and result in a lower grade. It's your responsibility to look on Canvas and/or check in with your classmates for notes and assignments you missed.

Names and personal pronoun preference: Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name, unless they have added a “preferred name” with the Gender and Sexuality Center, which you can do so here. I will gladly honor your request to address you by a name that is different from what appears on the official roster, and by the gender pronouns you use (she/he/they/ze, etc). Please advise me of any changes early in the semester so that I may make appropriate updates to my records. Visit this site for instructions on how to add your pronouns to Canvas.

UNIVERSITY POLICIES & OTHER INFO

The Sanger Learning Center: All students are welcome to take advantage of Sanger Center's classes and workshops, private learning specialist appointments, peer academic coaching, and
tutoring for more than 70 courses in 15 different subject areas. For more information, please visit Sanger Learning Center or call 512-471-3614 (JES A332).

**Online instruction:** All students must use a UT Zoom account in order to participate in classes, office hours, and any UT affiliated events.

**Recordings:** Class recordings are reserved only for students in this class for educational purposes and are protected under FERPA. The recordings should not be shared outside the class in any form. Violation of this restriction by a student could lead to Student Misconduct proceedings.

**Use of e-mail for official correspondence to students:** All students should be familiar with the University's official e-mail student notification policy. It is the student's responsibility to keep the University informed as to changes in his or her e-mail address. Students are expected to check e-mail on a frequent and regular basis in order to stay current with University-related communications, recognizing that certain communications may be time-critical. The complete text of this policy and instructions for updating your e-mail address are available [here](#).

**Sharing of course materials is prohibited:** No materials used in this class, including, but not limited to, lecture hand-outs, videos, assessments (quizzes, exams, papers, projects, homework assignments), in-class materials, review sheets, and additional problem sets, may be shared online or with anyone outside of the class without explicit, written permission of the instructor. Unauthorized sharing of materials promotes cheating. It is a violation of the University's Student Honor Code and an act of academic dishonesty. The University is well aware of the sites used for sharing materials, and any materials found on such sites that are associated with a specific student, or any suspected unauthorized sharing of materials, will be reported to Student Conduct and Academic Integrity in the Office of the Dean of Students. These reports can result in sanctions, including failure of the course.

**Policy on scholastic dishonesty:** Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. For further information, please visit the Office of Student Conduct and Academic Integrity website at [http://deanofstudents.utexas.edu/conduct/](http://deanofstudents.utexas.edu/conduct/).

**Student Emergency Services:** UT's Student Emergency Services provides assistance, intervention, and referrals to support students navigating challenging or unexpected issues that impact their well-being and academic success. If you need to be absent from class due to a family emergency, medical or mental health concern, or academic difficulty due to crisis or an emergency situation, please register with Student Emergency Services. SES will verify your situation and notify your professors.

**Religious holy days:** A student who misses classes or other required activities, including examinations, for the observance of a religious holy day should inform the instructor as far in advance of the absence as possible, so that arrangements can be made to complete an assignment within a reasonable time after the absence.

**Services with students with disabilities:** The university is committed to creating an accessible and inclusive learning environment consistent with university policy and federal and state law. Please let
me know if you experience any barriers to learning so I can work with you to ensure you have equal opportunity to participate fully in this course. If you are a student with a disability, or think you may have a disability, and need accommodations please contact Services for Students with Disabilities (SSD). Please refer to SSD's website for contact and more information. If you are already registered with SSD, please deliver your Accommodation Letter to me as early as possible in the semester so we can discuss your approved accommodations and needs in this course.

**Title IX reporting:** Title IX is a federal law that protects against sex and gender-based discrimination, sexual harassment, sexual assault, sexual misconduct, dating/domestic violence and stalking at federally funded educational institutions. UT Austin is committed to fostering a learning and working environment free from discrimination in all its forms. When sexual misconduct occurs in our community, the university can:

1. Intervene to prevent harmful behavior from continuing or escalating.
2. Provide support and remedies to students and employees who have experienced harm or have become involved in a Title IX investigation.
3. Investigate and discipline violations of the university's relevant policies.

Faculty members and certain staff members are considered “Responsible Employees” or “Mandatory Reporters,” which means that they are required to report violations of Title IX to the Title IX Coordinator. **I am a Responsible Employee and must report any Title IX-related incidents** that are disclosed in writing, discussion, or one-on-one. Before talking with me or with any faculty or staff member about a Title IX-related incident, be sure to ask whether they are a responsible employee. If you want to speak with someone for support or remedies without making an official report to the university, email advocate@austin.utexas.edu For more information about reporting options and resources, visit the Title IX Office or email titleix@austin.utexas.edu.

**Classroom Safety and COVID-19:** To help preserve our in person learning environment, the university recommends the following.

- Adhere to university mask guidance. Masks are strongly recommended inside university buildings for vaccinated and unvaccinated individuals, except when alone in a private office or single-occupant cubicle.
- Vaccinations are widely available, free and not billed to health insurance. The vaccine will help protect against the transmission of the virus to others and reduce serious symptoms in those who are vaccinated.
- Proactive Community Testing remains an important part of the university's efforts to protect our community. Tests are fast and free.
- The university has determined that all students coming to campus for the fall semester must receive a viral COVID-19 test in their local community within 72 hours prior to arrival in Austin for move in. If they already reside in Austin, they must test within 72 hours of moving into the residence where they will reside for the academic semester. Finally, individuals who are already living in the residence in Austin where they will reside this academic semester should test within 72 hours (3 days) prior to the start of class on Aug. 25.
- We encourage the use of the Protect Texas App each day prior to coming to campus.
- If you develop COVID-19 symptoms or feel sick, stay home and contact the University Health Services' Nurse Advice Line at 512-475-6877. If you need to be absent from class, contact Student Emergency Services and they will notify your professors. In addition, to help
understand what to do if you have been had close contact with someone who tested positive for COVID-19, see this University Health Services link.

- Behavior Concerns and COVID-19 Advice Line (BCCAL) remains available as the primary tool to address questions or concerns from the university community about COVID-19.
- Students who test positive should contact BCCAL or self-report (if tested off campus) to University Health Services.
- Visit protect.utexas.edu for more information

**Campus Safety:** The following are recommendations regarding emergency evacuation from the Office of Campus Safety and Security, 512-471-5767,

- Occupants of buildings on The University of Texas at Austin campus must evacuate buildings when a fire alarm is activated. Alarm activation or announcement requires exiting and assembling outside.
- Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.
- Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class.
- In the event of an evacuation, follow the instruction of faculty or class instructors. Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.
- For more information, please visit emergency preparedness.

**ACKNOWLEDGEMENTS**

We would like to acknowledge that we are meeting on Indigenous land. Moreover, we would like to acknowledge and pay our respects to the Carrizo & Comecrudo, Coahuiltecan, Caddo, Tonkawa, Comanche, Lipan Apache, Alabama-Coushatta, Kickapoo, Tigua Pueblo, and all the American Indian and Indigenous Peoples and communities who have been or have become a part of these lands and territories in Texas, here on Turtle Island.
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<tr>
<th>Week#</th>
<th>Date</th>
<th>Topic</th>
<th>Guiding question</th>
<th>Readings to be done before class</th>
<th>Optional self-paced training recommendations</th>
<th>In-class activity</th>
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<td></td>
<td>Start thinking about your data diary</td>
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</table>
| 4     | 9/15 | Audience and context         | Who are we designing for, and how can we use that information to make our work better? | Few, S. (2012). “Table design.” *Show me the numbers: designing tables and graphs to enlighten.* Burlingame, CA: Analytics Press.  
Start thinking about topics and datasets for project #1 | Tableau Fundamentals:  
- Create Calculated Fields | Remix a viz  
Tableau tutorial: filters, calculated fields | Data diary  
Tableau exercise #1 |
Skim UT Austin branding guidelines: [https://utexas.app.box.com/v/brandcampaign/file/218170563404](https://utexas.app.box.com/v/brandcampaign/file/218170563404) | Tableau Fundamentals:  
- Create Dashboards and Stories  
Tableau Desktop II: Intermediate  
- Using Parameters to Control Data in the View | Branding activity  
Tableau tutorial: fonts, colors, dashboards, parameters | Tableau exercise #2  
Provide a summary of your project #1 data topic on Canvas |
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<tr>
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<td>8</td>
<td>10/13</td>
<td>Working with clients</td>
<td>How can we establish ourselves as good collaborators and guide a project toward success?</td>
<td>Minto, B. (2009). <em>Chapters 1, 2, &amp; 3. Pyramid Principle</em>. Harlow, Essex: Pearson Education.</td>
<td>Tableau Fundamentals: – Use Quick Table Calculations to Analyze Data</td>
<td>Tableau tutorial: table calculations</td>
<td>Project #1 and presentation due</td>
</tr>
<tr>
<td>10</td>
<td>10/27</td>
<td>How to pick a tool</td>
<td>With so many options available, how do we choose the right tool for the job?</td>
<td>Skim Gartner Magic Quadrant for Analysis and Business Intelligence Platforms: <a href="https://www.gartner.com/doc/reprints">https://www.gartner.com/doc/reprints</a>?</td>
<td>Tableau Prep Builder: – Connect to and Configure Your Data – Cleaning Data with One-Click Operations – Combining Data with Joins – Generating Output</td>
<td>Tableau tutorial: Tableau Prep</td>
<td>Tableau exercise #5</td>
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https://search.lib.utexas.edu/permalink/01UTAU_INST/171befj/alma991057975280306011

https://civic.mit.edu/2015/12/01/feminist-data-visualization/


Using Level of Detail Expressions | Tableau tutorial: set actions, parameter actions, regular expressions | The Moth Storytelling |
Hoboken, Nj: Wiley. | Tableau tutorial: mobile development | Final project prototype and draft documentation due                               |
<p>| 14   | 11/24 | T-day break                                | No class                                                                        |                                                                                                  |                                               |                             |</p>
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<tbody>
<tr>
<td>16</td>
<td>12/8</td>
<td>Talks, course evals, and wrap up</td>
<td>No class</td>
<td>Final presentations, course evaluations, and wrap up.</td>
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<td>Project &amp; documentation</td>
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RECOMMENDATIONS FOR ADDITIONAL READING

This class of course only scratches the surface of data analysis and visualization. In addition to seeking out additional iSchool courses to build your data skills, consider the following resources. (This list is not exhaustive— if you encounter more in the course of your studies, please share them with me!)

TABLEAU BLOGS AND RESOURCES
makeovermonday.co.uk
workout-wednesday.com
ryansleeper.com
vizwiz.com
dataplusscience.com
datarevelations.com

BLOGS AND OTHER WEBSITES
storytellingwithdata.com
ecometer.com/graphic-detail
junkcharts.typepad.com
pudding.cool
storytellingwithdata.com
visualizingdata.com

flowingdata.com
Informationisbeautiful.net
makeovermonday.co.uk
reddit.com/r/DataIsUgly
theatlas.com
viz.WTF

BOOKS

Practical

Beautiful
Ethics and numeric literacy

History

PODCASTS
Data Viz Today
Datastori.es
Storytellingwithdata.com/podcast
99% Invisible
PolicyViz

ORGANIZATIONS
Data Visualization Society
_Institute of Electrical and Electronics Engineers (IEEE)_
Association for Computing Machinery (ACM)

CONFERENCES
Tableau Conference
IEEE Vis
Malofiej
Tapestry Conference (currently on hiatus)

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