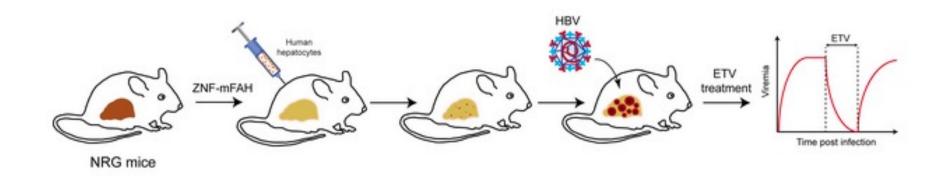
Additional Resources

Schematic Figure Design

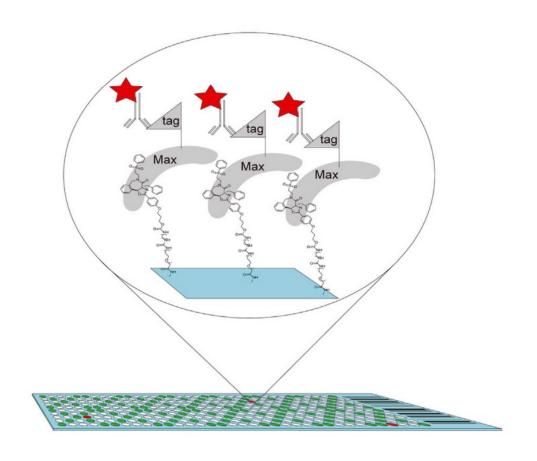
Follow key design principles when designing a schematic



- Readers read left to right and top to bottom
- Use intuitive alignments
- Use grayscale + a few consistent colors
- Use consistent fonts, font sizes, and line thicknesses

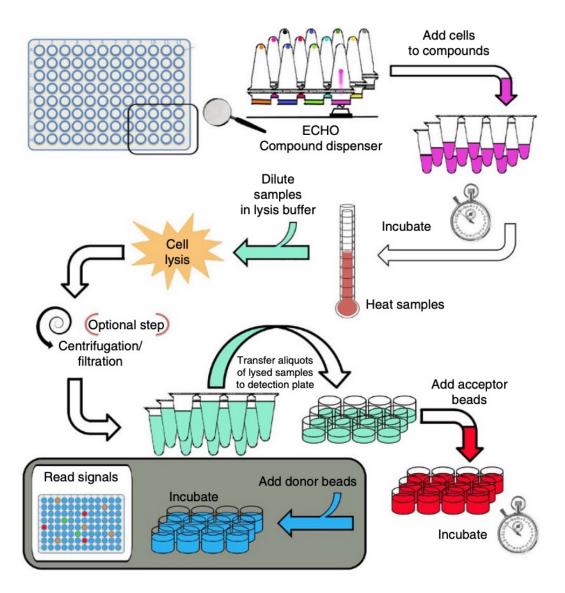
Where does your eye go with this figure?

Schematic example 1 of 2



Where does your eye go with this figure?

Schematic example 2 of 2



You don't need to reinvent the wheel to make clear schematics!

Servier Medical Art bioicons.com Biorender **Noun Project**

If you want to, now is a good time to try out some vector design programs

Adobe Illustrator Intro Videos — Free through MIT (and the entire Adobe Suite)

(https://helpx.adobe.com/illustrator/how-to/ai-basics-fundamentals.html?playlist=/services/playlist.helpx/products:SG_ILLUSTRATOR_1_1/learn-path:get-started/set-header:ccx-designer/playlist:ccl-get-started-1/en_us.json&ref=helpx.adobe.com)

BE Comm Lab Illustrator Guide

https://mitcommlab.mit.edu/be/2021/09/09/introduction-to-illustrator-and-helpful-resources/

Inkscape — Free, open source

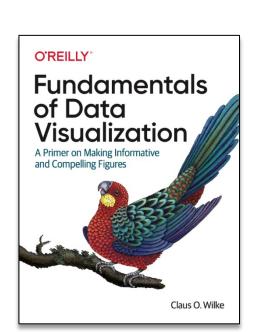
https://inkscape.org/learn/tutorials/

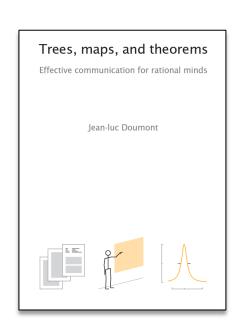
If you are interested in learning more about visual design / data visualization, check out:

Trees, Maps, and Theorems

Jean Luc Doumont

https://www.principiae.be/book/X0301.php





Fundamentals of Data Visualization

Claus O. Wilke

https://clauswilke.com/dataviz/

(full online textbook)

Resources

Please respect the copyrights and licenses of the creators

Data Visualization Checklist

Evergreen Data. "Stephanie Evergreen Data Visualization Checklist." Accessed January 25, 2021. https://stephanieevergreen.com/data-visualization-checklist/.

Selecting A Visualization Type

- Search by Function: https://datavizcatalogue.com/index.html
- Search by Data Type: https://www.data-to-viz.com/
- Chart Chooser diagram: https://www.labnol.org/software/find-right-chart-type-for-your-data/6523/
- Visual Vocabularly: http://ft-interactive.github.io/visual-vocabulary/

Visual Encodings

Properties and Best Uses of Visual Encodings: http://complexdiagrams.com/properties

Managing Color

- ColorBrewer 2.0: http://colorbrewer2.org/
- ColorLab Colorblindness Simulator: http://colorlab.wickline.org/colorblind/colorlab/
- I Want Hue color palette generator http://tools.medialab.sciences-po.fr/iwanthue/
- Colour Contrast Analyser (CCA): https://developer.paciellogroup.com/resources/co https://developer.paciellogroup.com/resources/co
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 https://developer.paciellogroup.com/resources/co
 <a href="https://developer.paciellogroup.com/resources/com/resource

Examples

Schwabish, Jonathan A. "An Economist's Guide to Visualizing Data." *Journal of Economic Perspectives* 28, no. 1 (February 2014): 209–34. https://doi.org/10.1257/jep.28.1.209.

Schwarz, C J. "A Short Tour of Bad Graphs," 2016, 29. http://people.stat.sfu.ca/~cschwarz/Stat-650/Notes/PDF/ChapterBadgraphs.pdf

"Top Ten Worst Graphs." Accessed January 30, 2020. https://www.biostat.wisc.edu/ ~kbroman/topten worstgraphs/.

MIT Libraries **Additional Resources**

About the BE Communication Lab

56-211 Team



Dr. Chiara Ricci-Tam

BECL Manager Lecturer



Dr. Sean Clarke

Principal Lecturer Biotech Liaison



From early brainstorming to final edits, we offer discipline-specific feedback for your communication tasks

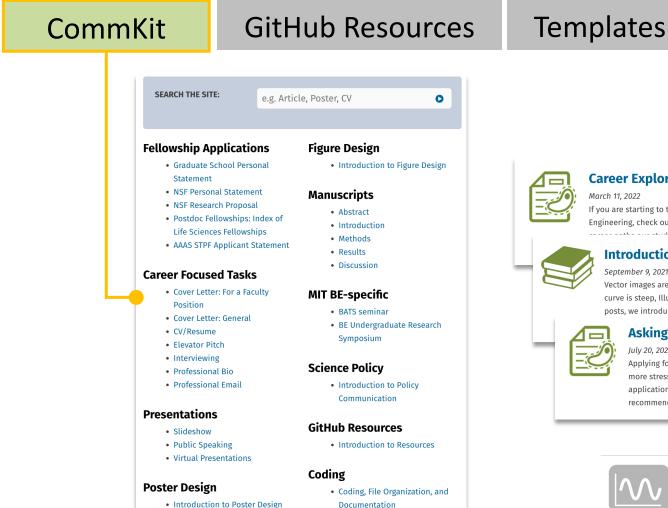


- Written (reports, manuscripts, proposals, theses)
- Visual (slide / poster / figure design)
- Oral (public speaking, presentation design)
- Career (application essays, cover letters, resumes, interviewing, networking)



Use our **online guides** any time!

mitcommlab.mit.edu/be



Career Exploration March 11, 2022 If you are starting to think about what you want to do with a degree in Biological Engineering, check out this post on career exploration. Learn about the various Introduction to Illustrator and Helpful Resources September 9, 2021 Vector images are an important component of figure design. While the learning curve is steep, Illustrator is the best way to make images. In this series of blog posts, we introduce you to Illustrator and the things you might need to know how **Asking for Recommendation Letters**

recommendation.

Blog Posts



Applying for graduate school or fellowships can be daunting. To make the process

more stressful, we often need several letters of recommendation for a complete

application. Below are some tips on who to ask and how to ask for a letter of

Make a coaching appointment

mitcommlab.mit.edu/be



Our team of trained Comm Lab Fellows are available to help you revise, rehearse, and get a fresh perspective



Policies: what you can expect from **us**

- Just-in-time coaching: you can come to an appointment at any stage of your communication process (from early brainstorming to final revisions), and get help right at the time you need it
- Our goal is to nurture, not evaluate: we seek to provide an outside perspective and help you progress with your communication goals



Policies: what we expect from you

- Appointments need to be made at least 1 day in advance
- Please respect the fellows time! Show up on time, and give notice well in advance if you are going to be late or have to miss your appointment
- Double-check if you made an in-person or virtual appointment
- You gain more from a coaching session if you come into it with a goal for growth—help us help you



These resources are here to support you in your individual BE journey—reach out!



56-211 Team