**Books**

**Design for Information – Isabel Meirelles**

This book does a great job explaining the theory and providing examples of different types of visualizations. It has a good selection of historical examples and brief but useful sections on perception and cognition. Relative to this course, it spends more time on advanced data structures such as trees, networks, maps, and text.

**The Functional Art – Alberto Cairo**

This is an excellent book on infographics, particularly journalistic-style visualizations that are meant to present or accompany a story. Relative to this course, it focuses more on the design process behind construction visualizations – such as how complicated or novel they should be – and less on the basic building blocks of graphics. There is a useful and relevant section on perception and cognition. A large section of the book has profiles of infographic designers at newspapers and magazines and design firms.

**The Visual Display of Quantitative Information – Edward R. Tufte**

Considered to be classic and foundational in the field, this book presents Tufte’s principles and opinions of what data visualizations should be. It has a wide range of historical examples, particularly “bad examples” from the early days of computer graphics. It introduces many useful principles and metrics to evaluate designs and charts, although some of the guidelines are unsupported or oversimplified. Overall, though, it lives up to its reputation.

**Online Courses**

**Harvard CS 171: Visualization – Alexander Lex**

<http://www.cs171.org/2015/schedule/>

This course provides a detailed and thorough theoretical perspective on data visualization, from the components of graphics and data structures through to interactivity and advanced techniques. This course also has a project-based component that uses D3. Excellent sources and lessons, although the broad scope of the course makes it a little disjointed.

**UC Berkeley CS 294-10: Visualization (Maneesh Agrawala)**

<http://vis.berkeley.edu/courses/cs294-10-fa14/wiki/index.php/Main_Page>

This course is a very detailed theoretical introduction to data visualization. It includes long and content-rich slides for major topics of interest, including excellent sections on color, perception, data models, and graphics. The course has very well-designed projects and some impressive student submissions, all of which are available on the course website.

**GaTech CS7450: Information Visualization (John Stasko)**

<http://www.cc.gatech.edu/~john.stasko/7450/instructor.html>

**USF MSAN-622: Information Visualization (Sophie Engel)**

<https://usfca.instructure.com/courses/1480739/assignments/syllabus>

**Rutgers 544: Information Visualization (Anselm Spoerri)**

<http://comminfo.rutgers.edu/~aspoerri/Teaching/InfoVisOnline/Home.htm>