
CHAPTER **13** **Advanced Probability and
Statistics - Second Edition Resources**

Chapter Outline

13.1 RESOURCES ON THE WEB FOR CREATING EXAMPLES AND ACTIVITIES

13.1 Resources on the Web for Creating Examples and Activities

Disclaimer: All links here worked when this document was written.

In the Current News: Surveys, Observational Studies, and Randomized Experiments

- <http://www.gallup.com> The Gallup Organization's site. Frequent updating with current polls and good archive of polls conducted in last few years.
- <http://www.washingtonpost.com/wp-srv/politics/polls/datadir.htm> A set of links to all of the major polls (USA Today, CNN, NY Times, ABC, Gallup Poll, etc.). Maintained by *The Washington Post*.
- <http://www.usatoday.com/news/health/healthindex.htm> USA Today Health Index. An archive of past health stories reported in *USA Today*.
- <http://www.publicagenda.org> Recent survey results for hot public issues (abortion, crime, etc.).
- <http://www.pollingreport.com> A collection of recent poll results on business, politics, and society from many different sources.
- <http://sda.berkeley.edu/> SDA is a set of programs for the documentation and web-based analysis of survey data.

Resources by Teachers for Teachers

- <http://www.herkimershideaway.org/> Herkimer's Hideaway, by Sanderson Smith, Department of Mathematics, Cate School, Carpinteria, California. Click on AP Statistics. Contains many ideas for projects and activities.
- <http://www.causeweb.org/repository/StarLibrary/activities/> Statistics Teaching and Resource Library. Started in Summer, 2001. The STAR Library collection is peer-reviewed by an editorial board. Mission is "to provide a peer-reviewed journal of resources for introductory statistics teachers that is free of cost, readily available, and easy to customize for the use of the teacher."
- http://www.dartmouth.edu/~chance/chance_news/news.html Chance News: A newsletter of recent (mostly United States) media items useful for class discussion.
- <http://exploringdata.net/> This website provides curriculum support materials for teachers of Introductory Statistics.
- <http://mathforum.org/workshops/usi/dataproject/usi.genwebsites.html> This website has a variety of links to data sets and websites that provide support, ideas, and activities for teachers of statistics.

Survey Methodology

- <http://www.publicagenda.org> Nice discussions of issues connected to surveys on hot public issues (abortion, crime, etc.). In particular, click on 'Red Flags' for each issue to see examples of how question wording, survey timing, and so on affect survey results.
- http://whyfiles.org/009poll/math_primer.html University of Wisconsin Why Files on Polling. Discusses basic polling principles.

Data Sets

- <http://lib.stat.cmu.edu/DASL/> Carnegie Mellon Data and Story Library (DASL). Data sets are cross-indexed by statistical application and research discipline.
- <http://sda.berkeley.edu/archive.htm> General Social Survey archive and on-line data analysis program at the University of California at Berkeley.
- <http://www.cdc.gov/nchs/fastats/default.htm> FedStats Home Page. "The gateway to statistics from over 100 U.S. Federal agencies."

- <http://www.lib.umich.edu/govdocs/stats.html> University of Michigan Statistical Resources Center. Huge set of links to government data sources.
- http://dir.yahoo.com/Social_Science/Social_Research/Data_Collections/ Yahoo!'s directory of social science data collections.
- <http://dir.yahoo.com/Reference/Statistics/> Yahoo!'s directory of statistical data collections.

Miscellaneous Case Studies and Data Resources

- <http://www.flmnh.ufl.edu/fish/Sharks/ISAF/ISAF.htm> Shark Attacks-International Shark Attack File. Shark attack statistics, including special sections for the great white shark and shark attacks on divers. (Thanks to Tom Hettmansperger of Penn State for pointing out this site.)
- <http://www.DrugAbuseStatistics.samhsa.gov/> Drug Abuse Statistics from Substance Abuse and Mental Health Services Administration, Office of Applied Statistics.

Java and JavaScript Activities

- <http://onlinestatbook.com/rvls.html> The Rice University Virtual Lab in Statistics (David Lane). Includes simulations, activities, case studies, and many interesting links.
- <http://www-stat.stanford.edu/~susan/surprise/> Probability applets. One illustrates the birthday problem in a fun way.

Advanced Placement Statistics Listserve Archives

- <http://mathforum.org/kb/forum.jspa?forumID=67> Searchable archive of thousands of e-mail messages contributed by high school and college statistics teachers about topics as diverse as studies in the news to where to find test questions.

Journal of Statistics Education

- <http://www.amstat.org/publications/jse/> Free online journal sponsored by the American Statistical Association. Includes articles about teaching statistics, interesting data sets, and current articles in the news for discussion.