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ections: Work in groups of up to four pour textbook. All papers will be collected and all members of the group will rep will result in a 20 percentage point per point per percentage point percentage point per percentage per percentage per percentage per percentage per per percentage per percentage per percentage per percentage per per per per per per per per per pe	ed, but only one member's paper ceive the same grade. Failure to	will be randomly selected	
signing below, you agree that the following to accept as your own grade for group's work.			
Signature Group Member 1	Print Name	Date	
Signature Group Member 2	Print Name	Date	
Signature Group Member 3	Print Name	Date	

BUS 230: Business and Economics Communication and Research

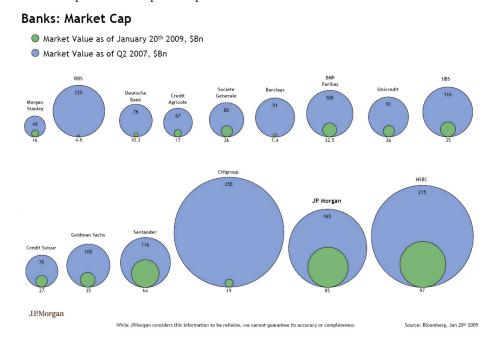
In-class Exercise: Data Visualization

Instructor: James Murray

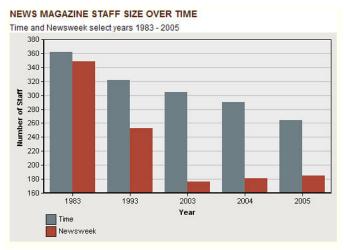
Fall 2012

Directions: For each of the following graphs in problems 1-5, (a) describe all the problems the researcher made in choosing how to visualize the data, (b) suggest an alternative graph to more effectively communicate the same data, and (c) sketch out the alternative graph that you suggest (it's a paper-pencil sketch, so it doesn't have look perfect).

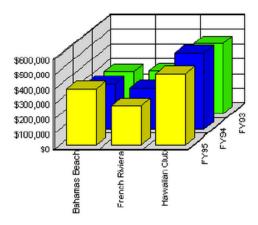
1. The following graph shows the market value of major financial firms in Quarter 2 of 2007 (blue) and again in Quarter 1 of 2009 (green). The purpose is to illustrate the effect the 2007-2008 financial crisis had on the value of these firms. In your sketch of an alternative graph, you may include only the first three companies to keep it simple.



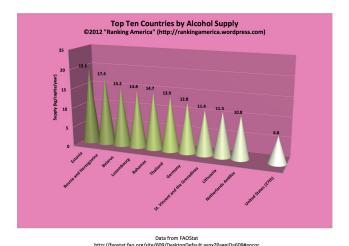
2. The following graph shows the staff size of Time and Newsweek magazines from 1983 through 2005. The purpose is to illustrate how these magazines have had to downsize over time.



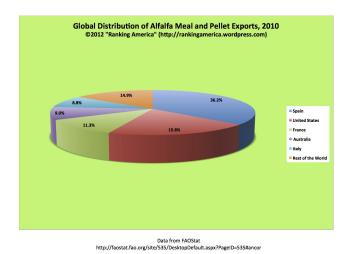
3. The following graph shows the revenue of three different resorts at three different time periods. The purpose is to illustrate the relative performance of each of the three resorts, and the change that has occurred over time.



4. The following graph shows alcohol supply for the top ten countries in the world, and the United States. In your sketch of an alternative graph, you may include only the first three countries plus the United States to keep it simple.



5. The following graph illustrates the percentage of world-wide alfalfa exports that comes from the top alfalfa exporting countries.



6. The Governor has just given his State of the State address and has stated that the strength of the manufacturing and service industries in the state of Wisconsin reflects the strength of these same industries in the entire United States.

You are a reporter for the La Crosse Tribune covering Trempealeau county and have been asked to write an article about the Governor's speech that includes some statistics which either support or refute his message and whether it applies to Trempealeau county. Use the data below create a graph that addresses the Governor's claims. Write a headline for your graph that reflects the message that you wish to convey with your graph.

The following table contains data on non-farm employment (the number of jobs) in different industries for the United States, The State of Wisconsin and Trempealeau County.

		United States	Wisconsin	Trempealeau
SIC Code	Total Non-Farm Employment	128,901,000	2,783,900	11,999
1	Goods Producing	25,507,100	741,800	5,346
1.1	Manufacturing	18,554,800	617,700	5,001
1.1.1	Durable Goods	11,112,100	377,000	3,289
1.1.2	Nondurable Goods	7,442,670	240,700	1,713
2	Service Producing	103,394,000	2,042,100	6,653
2.1	Transportation and Public Utilities	6,833,580	131,100	483
2.2	Wholesale and Retail Trade	29,760,500	626,900	1,844
2.3	Finance, Insurance, and Real Estate	7,555,170	146,000	306
2.4	Services	39,048,300	739,200	2,062
2.5	Total Government	20,195,900	398.900	1.958