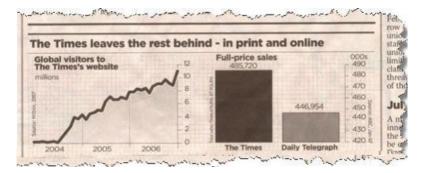
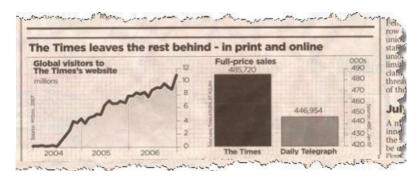
Misleading Graphs

January 16, 2016

Does the Times have more than double the full price sales of the Daily Telegraph?



Does the Times have more than double the full price sales of the Daily Telegraph?

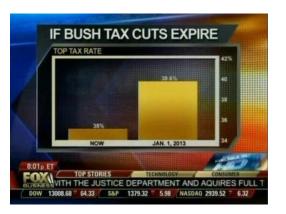


$$\frac{485,720}{446,954}\approx 1.086$$

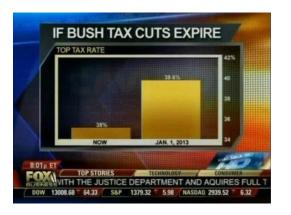
About an 8.6% increase.



Will the top tax rate increase sixfold?



Will the top tax rate increase sixfold?



$$\frac{39.6}{35}\approx 1.13$$

Are there four times as many people on welfare as working full time?

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WELFARE VS. FULL TIME JOBS

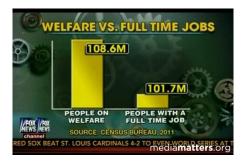
108.6M

101.7M

PEOPLE ON PEOPLE WITH A WELFARE FULL TIME JOB SOURCE: CENSUS BUREAU, 2011

RED SOX BEAT ST. LOUIS CARDINALS 4-2 TO EVEN WORLD SERIES AT T MEDIAMATERS. Org
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Are there four times as many people on welfare as working full time?



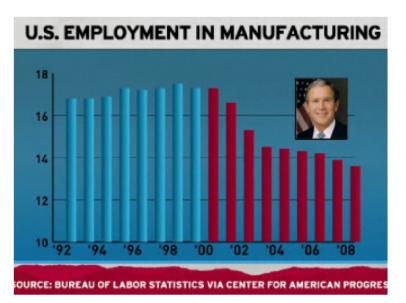
 $108.6/101.7 \approx 1.067$, a 6.7% increase.

Are there four times as many people on welfare as working full time?

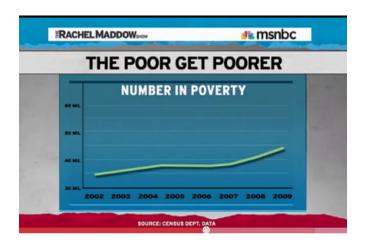


Also, these populations are not mutually exclusive: A full-time, minimum wage worker (\$7.25) can make as little as \$15,080 per year, and the poverty threshold in 2014 (which determines eligibility for social services) was \$23,850.

More Misleading Baselines



More Misleading Baselines



More Misleading Baselines



Pictographs: Inconsistent Proportions

How many medals does each graphic medal represent?



Pictographs: Inconsistent Proportions

How many medals does each graphic medal represent?



US: 329, Russia: 199, Britain: 153, France: 174, Germany: 249

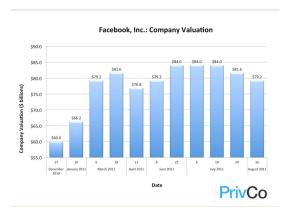
Inconsistent Scale

How much time passes between consecutive bars?



Inconsistent Scale

How much time passes between consecutive bars?



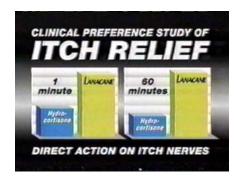
23 days, then 55, 12, 26, 54, 16, 14, 13, 10, 18. (p.s. check the baseline.)



Inconsistent Scale



Just Wrong: No Labels



This graph contains no information!

Just Wrong: The Numbers Don't Add Up

