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## Improving the Visuals - Quiz

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### Question 1

1/1 point (graded)

True or False: When presenting a chart showing the coefficients from data analysis, you never want to include the standard errors, since they make the graph too cluttered and do not provide any additional valuable information.

☐ a. True☒ b. False ✓

### Explanation

This statement is false. When presenting coefficients, such as the below example from class taken from Schwabish (2014), it is important to also show the standard errors in order to provide your reader with sense of the potential range of trend lines. However, to put less emphasis on the standard errors, you can make them either a lighter color or a dashed line.

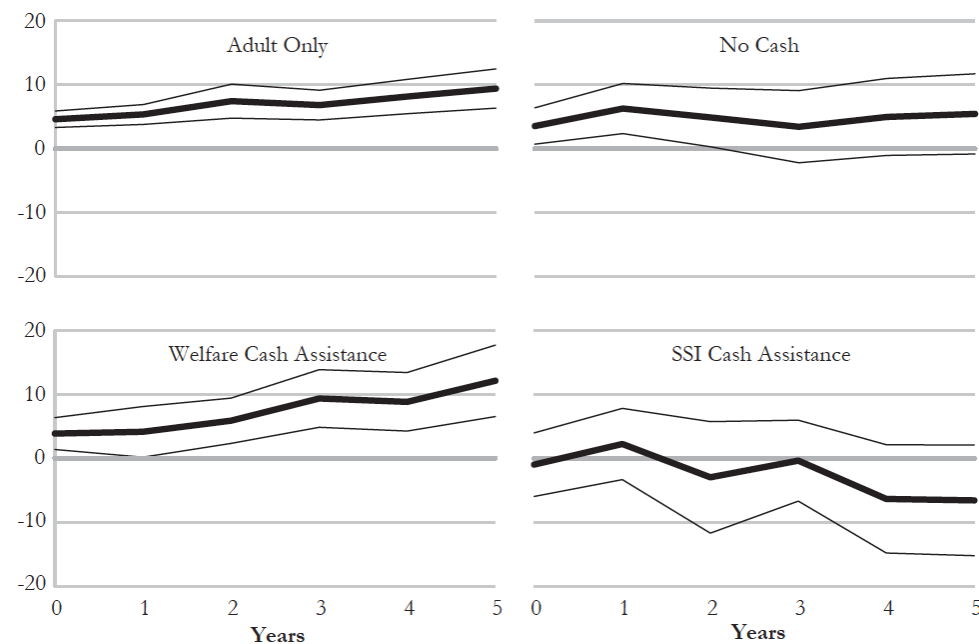
## Functions of Random Variable

- ▶ Module 5: Moments of a Random Variable, Applications to Auctions, & Intro to Regression
- ▶ Module 6: Special Distributions, the Sample Mean, the Central Limit Theorem, and Estimation
- ▶ Module 7: Assessing and Deriving Estimators - Confidence Intervals, and Hypothesis Testing
- ▶ Module 8: Causality, Analyzing Randomized Experiments, & Nonparametric Regression
- ▶ Module 9: Single and Multivariate Linear

Figure 1B

### A Revised Line Chart

Implied Impulse Response Functions for Different Caseloads  
(Percent change)



Submit

You have used 1 of 1 attempt


✓ Correct (1/1 point)

## Models


- ▶ Module 10: Practical Issues in Running Regressions, and Omitted Variable Bias

- ▼ Module 11: Intro to Machine Learning and Data Visualization


### Machine Learning I

Finger Exercises due Dec 12, 2016  
05:00 IST 

### Machine Learning II

Finger Exercises due Dec 12, 2016  
05:00 IST 

### Visualizing Data

Finger Exercises due Dec 12, 2016  
05:00 IST 

- ▶ Module 12: Endogeneity, Instrumental Variables, and Experimental Design
- ▶ Exit Survey

## Question 2

1/1 point (graded)

We have now finished going through the Tufte principles. Based on these past few segments, which of the following are considered Tufte principles? (Select all that apply)

☒ a. Reduce non-data ink in order to maximize data-ink ratio

☐ b. All principles should be strictly followed at all times

☒ c. Continuously revise and edit your graphs

☒ d. Maximize the amount of data

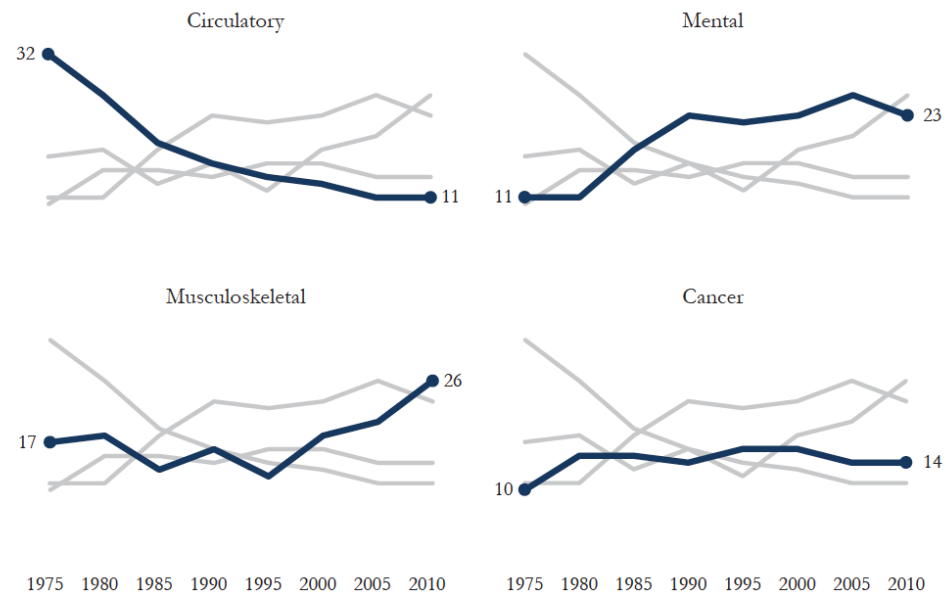


### Explanation

A, C, and D have each been discussed in detail over the last several lecture segments. While one should try to apply to Tufte principles when possible, there are times when not strictly adhering to the Tufte's principles allow for a clearer presentation of the results. For instance, while the example below introduces redundancy, it also allows for easy interpretation of each of the trend lines.

*Figure 6B*  
**Revising the Spaghetti Chart**

**Initial DI Worker Awards by Major Cause of Disability—  
Calendar Years 1975–2010**  
(Percent)



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You have used 2 of 2 attempts

✓ Correct (1/1 point)

## Discussion

**Topic:** Module 11 / Improving the Visuals - Quiz

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