Feedback — Week 1 Quiz

Help

Thank you. Your submission for this quiz was received.

You submitted this quiz on Mon 5 Jan 2015 6:53 PM PST. You got a score of 9.00 out of 10.00. You can attempt again, if you'd like.

Question 1

Suppose I conduct a study and publish my findings. Which of the following is an example of a replication of my study?

Your Answer	Score	Explanation
An investigator at another institution conducts a study		
addressing a different scientific question and publishes her		
findings.		
An investigator at another institution conducts a study		
addressing the same question, collects her own data, analyzes		
it separately from me, and publishes her own findings.		
I give my data to an independent investigator at another	× 0.00	
institution, she analyzes the data and gets the same results as I		
originally obtained.		
I take my own data, analyze it again, and publish new findings.		
Total	0.00 /	
	1.00	

Question 2

Which of the following is a requirement for a published data analysis to be reproducible?

Your Answer Score Explanation

The investigator's final publication is made available free of charge.		
The investigator makes available his computer, on which the analysis was originally conducted.		
The analysis is conducted on a variant of the Unix operating system.		
The full computer code for doing the data analysis is made publicly available.	~	1.00
Total		1.00 /
		1.00

Question 3

Which of the following is an example of a reproducible study?

Score	Explanation
✓ 1.00	
1.00 / 1.00	
	✓ 1.00

1.00 / 1.00

Total

Question 4			
Which of the following is a reason that a study might NOT be fully replicated ?			
Your Answer		Score	Explanation
The original study was very expensive and there is no money to repeat it in a different setting.	~	1.00	
The original study had null findings.			
• The original investigator does not want to make the analytic data available.			
• The original study was published in a high impact journal and is considered authoritative.			

Question 5

Which of the following is a reason why publishing **reproducible research** is increasingly important?

Your Answer		Score	Explanation
 The statistical methods for most studies can be accurately described using plain language. 			
 Computing power is limited today, making it difficult to apply sophisticated statistical methods. 			
Most studies today are small-scale and easily replicated.			
New technologies are increasing the rate of data collection, creating datasets that are more complex and extremely high dimensional.	~	1.00	
Total		1.00 /	
		1.00	

Question 6

What is the role of processing code in the research pipeline?

Your Answer		Score	Explanation
lt transforms the measured data into analytic data.	~	1.00	
It transforms the analytic data into computational results.			
It conducts the statistical analysis of the primary outcome.			
It transforms the computational results into figures and			
tables.			
Total		1.00 /	
		1.00	

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Vhich is a goal of literate statistical programming?			
Your Answer		Score	Explanation
 Separate figures and tables from other data analytic summaries. 			
Ensure that data analysis documents are always exported in PDF format.			
© Combine explanatory text and data analysis code in a single document.	~	1.00	
 Require that data analysis summaries are always written in LaTeX. 			
Total		1.00 /	
		1.00	

Question 8

What does it mean to weave a literate statistical program?

Your Answer		Score	Explanation
 Compress the literate program so that it takes up less space. 			
 Transform the literate program into a machine readable co file. 	de		
Transform a literate program from R to python.			
Transform the literate program into a human readable document.	~	1.00	
Total		1.00 /	
		1.00	

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/hich of the following is required to implement a I	iterate progr	ramming syste	m?
Your Answer		Score	Explanation
A documentation language like LaTeX.	~	1.00	
A web server for publishing documents.			
A program that views PDF files.			
A Unix-based computer system.			
Total		1.00 / 1.00	

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