The "Data Science" Specialization

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Feedback — Week 1 Quiz

Help

You submitted this quiz on **Sat 12 Jul 2014 10:48 PM PDT**. You got a score of **10.00** out of **10.00**.

Question 1

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

Score	Explanation
✔ 1.00	
1.00 / 1.00	
	1.00 /

Question 2

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

Your Answer	Score	Explanation
 The data analysis is conducted using R. 		
The full computer code for doing the data analysis is made	✓ 1.00	

publicly available.	
 The investigator's final publication is made available. 	able free of
The analysis is conducted on a variant of the Un system.	nix operating
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

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 study was conducted by a well-known investigator.		
 The original study was published in a high impact journal and is considered authoritative. 		
Total	1.00 /	
	1.00	

Question 5

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

Your Answer	Score	Explanation
 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	
 The statistical methods for most studies can be accurately described using plain language. 		
Total	1.00 / 1.00	

Question 6

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

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

tables.	
 It transforms the analytic data into computation 	onal results.
Total	1.00 /
	1.00

Question 7

Which is a goal of literate statistical programming?

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

Question 8

What does it mean to weave a literate statistical program?

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

Total 1.00 / 1.00

Question 9

Which of the following is required to implement a literate programming system?

Your Answer	5	Score	Explanation
 A cloud-based computing service for running computations. 			
A documentation language like LaTeX.	✓ 1	1.00	
A program that views PDF files.			
A web server for publishing documents.			
Total	1	1.00 /	
	1	1.00	

Question 10

What is one way in which the knitr system differs from Sweave?

~	1.00	
	1.00 / 1.00	
	~	