

## Feedback — Week 4 Quiz

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You submitted this quiz on **Mon 21 Oct 2013 3:57 PM PDT (UTC -0700)**. You got a score of **9.00** out of **10.00**. You can [attempt again](#), if you'd like.

### Question 1

What is the difference between the `colorRamp()` and the `colorRampPalette()` functions?

Your Answer	Score	Explanation
<input checked="" type="radio"/> <code>colorRamp()</code> returns a function that accepts inputs between 0 and 1; <code>colorRampPalette()</code> returns a function that accepts integer inputs	✓ 1.00	
<input type="radio"/> <code>colorRamp()</code> returns a function that accepts inputs between 0 and 1; <code>colorRampPalette()</code> returns a character vector of color names		
<input type="radio"/> <code>colorRamp()</code> is an alias for the <code>colorRampPalette()</code> function; they are the same		
<input type="radio"/> <code>colorRamp()</code> and <code>colorRampPalette()</code> both return character vectors of color names but <code>colorRamp()</code> encodes the colors in hexadecimal while <code>colorRampPalette()</code> does not		
Total	1.00 / 1.00	

### Question 2

What function can be used to convert a color specified using decimal values of red, green, and blue into a character string using hexadecimal values?

Your Answer	Score	Explanation
<input checked="" type="radio"/> <code>rgb()</code>	✓ 1.00	

☐ colors()☐ topo.colors()☐ colorRamp()

Total

1.00 / 1.00

## Question 3

Which string would match the following literal expression

powder

**Your Answer****Score****Explanation**☐ "Powder" is a movie from 1995☐ The chocolate tastes better in powdEr form☒ load the gunpowder

1.00

☐ I believe his twitter name is "Powder"

Total

1.00 / 1.00

## Question 4

What text would the expression

^[Hh]

match?

**Your Answer****Score****Explanation**☒ Any text that begins with a lower- or upper-case "h"

1.00

☐ Any text that ends with a lower- or upper-case "h"

☐ Any text that begins with an upper-case "h"

☐ Any text with a lower- or upper-case "h" in it

Total

1.00 / 1.00

## Question 5

Which of the following lines of text match the following expression?

`^([a-z]+) +\1 +[a-z]+ [0-9]`

**Your Answer**

**Score**

**Explanation**

☒ night night at 8



1.00

☐ going up and up and up

☐ heading, heading by 9

☐ bye bye from up high

Total

1.00 / 1.00

## Question 6

What does the 'grep()' function do when called with its default arguments?

**Your Answer**

**Score**

**Explanation**

☒ returns the indices for strings in a character vector that



1.00

match a given regular expression

☐ returns the strings in a character vector that match a given regular expression

☐ returns an integer vector containing the length of the match

for each string in a character vector

☐ returns a logical vector indicating which strings in a character vector match a given regular expression

Total	1.00 /
	1.00

## Question 7

Consider the following regular expression

```
^s(.*)r
```

and the string

```
she likes rum raisin after running hard
```

How many characters long is the regular expression match in this string?

Your Answer	Score	Explanation
<input type="radio"/> 11		
<input checked="" type="radio"/> none; the regular expression doesn't match	✖ 0.00	
<input type="radio"/> 15		
<input type="radio"/> 38		
Total	0.00 / 1.00	

## Question 8

In the R system of classes and methods, what is a generic function?

Your Answer	Score	Explanation
<input checked="" type="radio"/> a function that identifies the class of its input and calls an	✔ 1.00	

appropriate method on the input

- ☐ any function that operates on a non-atomic object
- ☐ a function that operates on an object that has no class
- ☐ a function that operates on a specific class of object

Total	1.00 /
	1.00

## Question 9

What function is used to obtain the function body for an S4 method function?

Your Answer	Score	Explanation
<input checked="" type="radio"/> getMethod()	✓ 1.00	
<input type="radio"/> getS3method()		
<input type="radio"/> getClass()		
<input type="radio"/> showMethods()		
Total	1.00 / 1.00	

## Question 10

What does the 'setOldClass()' function do?

Your Answer	Score	Explanation
<input checked="" type="radio"/> registers an S3 class as a formally defined class so that objects of this class can be used with S4 generic functions	✓ 1.00	
<input type="radio"/> removes an S3 class so that only S3 generic functions may be called on objects of that class		
<input type="radio"/> registers an S4 class so that S3 generic functions may be		

called on objects of that class.

☐ it is the function that dispatches methods on S3 class objects

Total	1.00 /
	1.00