Week 4 Quiz

The hard deadline for this quiz is Fri 7 Feb 2014 8:59 PM PST.

☐ In accordance with the Coursera Honor Code, I (Kathleen Grace Kennedy) certify that the answers here are my own work.

Question 1

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

- colorRamp() returns a function that accepts inputs between 0 and 1; colorRampPalette()
 returns a character vector of color names
- colorRamp() returns a function that accepts inputs between 0 and 1; colorRampPalette() returns a function that accepts integer inputs
- colorRamp() and colorRampPalette() both return character vectors of color names but colorRamp() encodes the colors in hexadecimal while colorRampPalette() does not
- O colorRamp() is an alias for the colorRampPalette() function; they are the same

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?

- rgb()
- ocolorRamp()
- o topo.colors()
- ocolors()

Question 3

Which string would match the following literal expression

powder

- The chocolate tastes better in powdEr form
- O "Powder" is a movie from 1995
- I believe his twitter name is "Powder"
- load the gunpowder

Question 4

What text would the expression

^[Hh]

match?

- Any text that begins with an upper-case "h"
- Any text with a lower- or upper-case "h" in it
- Any text that ends with a lower- or upper-case "h"
- Any text that begins with a lower- or upper-case "h"

Question 5

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

$$([a-z]+) + 1 + [a-z]+ [0-9]$$

- O bye bye from up high
- ogoing up and up and up
- O heading, heading by 9
- night night at 8

Question 6

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

- o returns the indices for strings in a character vector that match a given regular expression
- returns a logical vector indicating which strings in a character vector match a given regular expression
- returns an integer vector containing the length of the match for each string in a character vector
- returns the strings in a character vector that match a given regular expression

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?

- 0 15
- 38
- onone; the regular expression doesn't match
- ① 11

Question 8

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

- a function that identifies the class of its input and calls an appropriate method on the input
- a function that operates on a specific class of object
- any function that operates on a non-atomic object

a function that operates on an object that has no class

Question 9

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

- getMethod()
- getClass()
- showMethods()
- getS3method()

Question 10

What does the 'setOldClass()' function do?

- oregisters an S4 class so that S3 generic functions may be called on objects of that class.
- registers an S3 class as a formally defined class so that objects of this class can be used with S4 generic functions
- it is the function that dispatches methods on S3 class objects
- removes an S3 class so that only S3 generic functions may be called on objects of that class
- ☐ In accordance with the Coursera Honor Code, I (Kathleen Grace Kennedy) certify that the answers here are my own work.

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