Universidad Nacional de Rosario Facultad de Ciencias Económicas y Estadística Licenciatura en Estadística | Licenciatura en Ciencia de Datos

Programación 1

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Tabla de contenidos

lní	formación general sobre la asignatura	3
	Cursado	3
	Aula virtual?	
	Programa	3
	Evaluación	3
	Código de conducta	3
1	Unidad 1. Nombre de la unidad.	5
1	Primera sección de la Unidad 1 1.1 Listado de ambientes definidos	7
2	Segunda sección de la Unidad 1	9
3	Práctica de la Unidad 1	13
II	Unidad 2. Nombre de la unidad.	15
4	Primera sección de la Unidad 2	17
•		
5	Ejemplos para crear "Webexercises"	19
	5.1 Example Questions	
	5.1.1 Fill-In-The-Blanks (fitb())	
	5.1.2 Multiple Choice (mcq())	
	5.1.3 True or False (torf())	
	5.1.4 Longer MCQs (longmcq())	
	5.2 Checked sections	
	5.3 Hidden solutions and hints	21

Bienvenida

Página en construcción.

Información general sobre la asignatura



EN DESARROLLO

Página en construcción.

Cursado

Modalidad, comisiones, horarios

Aula virtual?

Programa

enlace al programa aprobado

Evaluación

Código de conducta

Unidad 1. Nombre de la unidad.

Presentación de la Unidad 1.



EN DESARROLLO

Página en construcción.

Primera sección de la Unidad 1



EN DESARROLLO

Página en construcción.



Resumen o presentación del contenido de esta sección de la unidad.

1.1 Listado de ambientes definidos



EJEMPLO

Contenido del ejemplo, prueba en **negrita**.

1+1

[1] 2



PARA RESOLVER

Contenido del **ejercicio**

1+1

[1] 2



CONCEPTO CLAVE

concepto **negrita**



INFO IMPORANTE

info **negrita**



COMENTARIO ADICIONAL

comentario negrita

Segunda sección de la Unidad 1



EN DESARROLLO Página en construcción.

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Práctica de la Unidad 1



EN DESARROLLO

Página en construcción.

In summary, this book has no content whatsoever.

1 + 1

[1] 2

Unidad 2. Nombre de la unidad.

Presentación de la Unidad 2.



EN DESARROLLO

Página en construcción.

Primera sección de la Unidad 2



EN DESARROLLO

Página en construcción.

Knuth (1984) bla

Ejemplos para crear "Webexercises"



EN DESARROLLO

Página en construcción.

Dejo este template del paquete webexercises para tomar de ejemplo.

This is a Web Exercise template created by the psychology teaching team at the University of Glasgow, based on ideas from Software Carpentry. This template shows how instructors can easily create interactive web documents that students can use in self-guided learning.

The {webexercises} package provides a number of functions that you use in inline R code or through code chunk options to create HTML widgets (text boxes, pull down menus, buttons that reveal hidden content). Examples are given below. Render this file to HTML to see how it works.

NOTE: To use the widgets in the compiled HTML file, you need to have a JavaScript-enabled browser.

5.1 Example Questions

5.1.1 Fill-In-The-Blanks (fitb())

Create fill-in-the-blank questions using fitb(), providing the answer as the first argument.

• 2 + 2 is _

You can also create these questions dynamically, using variables from your R session.

• The square root of 64 is: __

The blanks are case-sensitive; if you don't care about case, use the argument ignore_case = TRUE.

_	What	ie	tho	letter	after	D?	
•	wmat	$_{\rm IS}$	une	retter.	arter	D:	

If you want to ignore differences in whitespace use, use the argument <code>ignore_ws = TRUE</code> (which is the default) and include spaces in your answer anywhere they could be acceptable.

You can set more than one possible correct answer by setting the answers as a vector.

• Type a vowel: _

You can use regular expressions to test answers against more complex rules.

• Type any 3 letters: _____

5.1.2 Multiple Choice (mcq())

- "Never gonna give you up, never gonna:
- (A) let you go
- (B) turn you down
- (C) run away
- (D) let you down

" - "I

- (A) bless the rains
- (B) guess it rains
- (C) sense the rain

down in Africa" -Toto

5.1.3 True or False (torf())

• True or False? You can permute values in a vector using sample(). TRUE / FALSE

5.1.4 Longer MCQs (longmcq())

When your answers are very long, sometimes a drop-down select box gets formatted oddly. You can use longmcq() to deal with this. Since the answers are long, It's probably best to set up the options inside an R chunk with echo=FALSE.

What is a p-value?

- (A) the probability that the null hypothesis is true
- (B) the probability of the observed, or more extreme, data, under the assumption that the null-hypothesis is true
- (C) the probability of making an error in your conclusion

What is true about a 95% confidence interval of the mean?

- (A) 95% of the data fall within this range
- (B) there is a 95% probability that the true mean lies within this range
- (C) if you repeated the process many times, 95% of intervals calculated in this way contain the true mean

5.2 Checked sections

Create sections with the class webex-check to add a button that hides feedback until it is pressed. Add the class webex-box to draw a box around the section (or use your own styles).

I am going to learn a lot: TRUE / FALSE

What is a p-value?

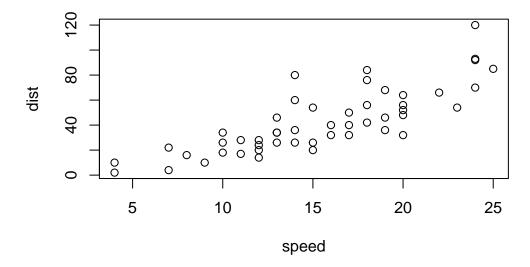
- (A) the probability that the null hypothesis is true
- (B) the probability of the observed, or more extreme, data, under the assumption that the null-hypothesis is true
- (C) the probability of making an error in your conclusion

5.3 Hidden solutions and hints

You can fence off a solution area that will be hidden behind a button using hide() before the solution and unhide() after, each as inline R code. Pass the text you want to appear on the button to the hide() function.

If the solution is a code chunk, instead of using hide() and unhide(), simply set the webex.hide chunk option to TRUE, or set it to the string you wish to display on the button.

Recreate the scatterplot below, using the built-in cars dataset.



I need a hint

See the documentation for plot() (?plot)

Click here to see the solution

plot(cars\$speed, cars\$dist)

Knuth, Donald E. 1984. «Literate Programming». *Comput. J.* 27 (2): 97-111. https://doi.org/10.1093/comjnl/27.2.97.