

UNIVERSIDAD NACIONAL DE ROSARIO
FACULTAD DE CIENCIAS ECONÓMICAS Y ESTADÍSTICA
LICENCIATURA EN ESTADÍSTICA | LICENCIATURA EN CIENCIA DE DATOS

Programación 1

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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.

Capítulo 1

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**

Capítulo 2

Segunda sección de la Unidad 1



EN DESARROLLO

Página en construcción.

Nulla eget cursus ipsum. Vivamus porttitor leo diam, sed volutpat lectus facilisis sit amet. Maecenas et pulvinar metus. Ut at dignissim tellus. In in tincidunt elit. Etiam vulputate lobortis arcu, vel faucibus leo lobortis ac. Aliquam erat volutpat. In interdum orci ac est euismod euismod. Nunc eleifend tristique risus, at lacinia odio commodo in. Sed aliquet ligula odio, sed tempor neque ultricies sit amet.

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Duis ornare ex ac iaculis pretium. Maecenas sagittis odio id erat pharetra, sit amet consectetur quam sollicitudin. Vivamus pharetra quam purus, nec sagittis risus pretium at. Nullam feugiat, turpis ac accumsan interdum, sem tellus blandit neque, id vulputate diam quam semper nisl. Donec sit amet enim at neque porttitor aliquet. Phasellus facilisis nulla eget placerat eleifend. Vestibulum non egestas eros, eget lobortis ipsum. Nulla rutrum massa eget enim aliquam, id porttitor erat luctus. Nunc sagittis quis eros eu sagittis. Pellentesque dictum, erat at pellentesque sollicitudin, justo augue pulvinar metus, quis rutrum est mi nec felis. Vestibulum efficitur mi lorem, at elementum purus tincidunt a. Aliquam finibus enim magna, vitae pellentesque erat faucibus at. Nulla mauris tellus, imperdiet id lobortis et, dignissim condimentum ipsum. Morbi nulla orci, varius at aliquet sed, facilisis id tortor. Donec ut urna nisi.

Capítulo 3

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.

Capítulo 4

Primera sección de la Unidad 2



EN DESARROLLO
Página en construcción.

Knuth (1984) bla

Capítulo 5

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 9 is: __

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

- What is the letter after D? __

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

- How do you load the tidyverse package? _____

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

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?

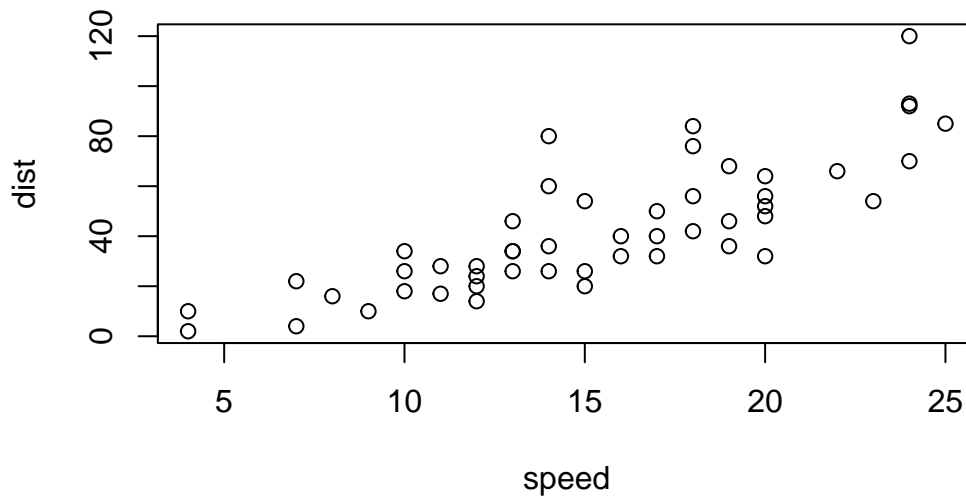
- (A) the probability that the null hypothesis is true
- (B) the probability of the observed, or more extreme, data, under the assumption that the null-hypothesis is true
- (C) the probability of making an error in your conclusion

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)
```

Capítulo 6

Práctica de la Unidad 2



EN DESARROLLO
Página en construcción.

6.1 Ejercicio 1

Enunciado Ejercicio 1...

Ver Solución

```
for (i in 1:10) {  
  print(i)  
}
```

6.2 Ejercicio 2

Enunciado Ejercicio 2...

Ver Solución

```
for (i in 1:10) {  
  print(i)  
}
```

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

