Readings for Week 01: Replace it!

This is a meaningful subtitle

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Self-Assessment Questions

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

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

- 2 + 2 is _
- 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: ___

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

True or False (torf())

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

Longer MCQs (longmcq())

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

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) there is a 95% probability that the true mean lies within this range
- (C) 95% of the data fall within this range

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?

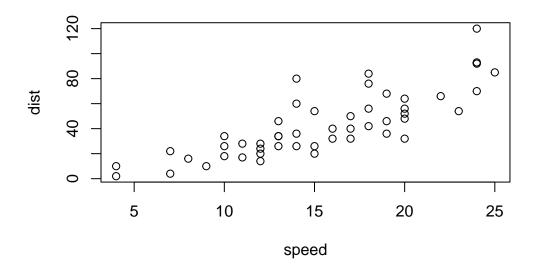
- (A) the probability that the null hypothesis is true
- (B) the probability of the observed, or more extreme, data, under the assumption that the null-hypothesis is true
- (C) the probability of making an error in your conclusion

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)