

Class 18: Inference and simulations IV

June 14, 2018



General

Announcements

- Written responses (not questions) to Reading 13 due on **June 15** by 9:00am
 - Last reading that requires you to post on Slack after completing it
- Homework 4 and extra credit Homework 5 posted, due by **11:59pm on Wednesday, June 20th**
 - Homework 4 must be submitted before you can turn in Homework 5

Final project overview

Instructions for final project

Go to <http://summer18.cds101.com/assignments/final-project/> and follow along.

Confidence intervals wrap-up

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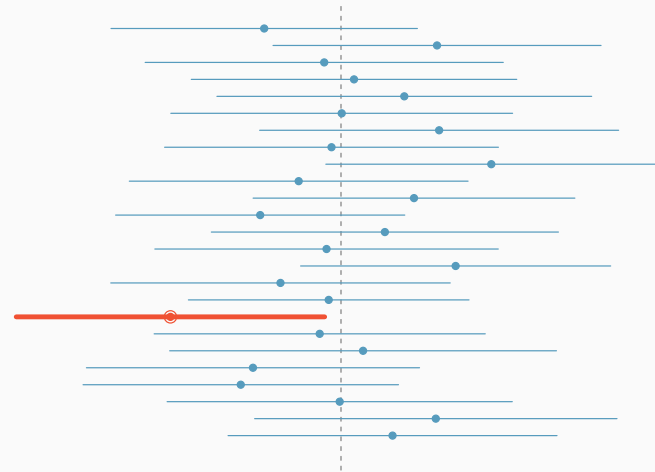
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- Then, the phrase "95% confident" means that about 95% of those intervals would contain the true population mean
- The figure shows this process with 25 samples, where 24 of the resulting confidence intervals contain the true average number of exclusive relationships, and one does not.



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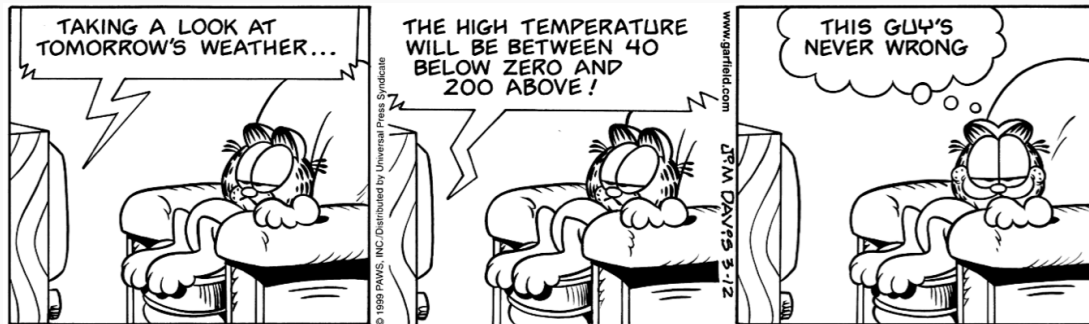
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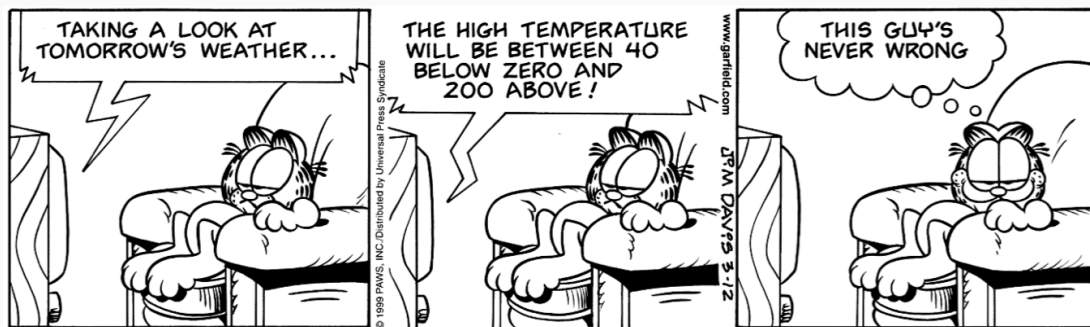
Image source (defunct): http://web.as.uky.edu/statistics/users/eao227/misc/garfield_weather.gif

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- Commonly used confidence levels in practice are 90%, 95%, 98%, and 99%.

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- Guided instructions on how to use it on Homework 4!

Credits

Content in **Confidence intervals wrap-up** section adapted from the chapter 4 **OpenIntro Statistics slides** developed by Mine Çetinkaya-Rundel and made available under the **CC BY-SA 3.0 license**.