Siguiente >



<u>Curso Progreso Fechas Discusión Notas Data Analysis for Life Sciences Series Preguntas Frecuentes</u>



()



Quiz

☐ Marcar esta página

Quiz fecha límite Jul 13, 2022 19:00 CEST

Question #1

1 punto posible (calificable)

Consider the code snippet below:

```
> head(mtcars$mpg)
[1] 21.0 21.0 22.8 21.4 18.7 18.1
> head(mtcars$hp)
[1] 110 110 93 110 175 105
```

This is a snippet of the mtcars dataset that shows the miles per gallon (mpg) and horsepower (hp) data.

If you wanted to compare the mpg and hp values against each other, what kind of plot would you use?

O Box plot	
○ Scatter plot	
O Pie chart	
O Bar plot	
Enviar Ha realizado 0 de 2 intentos	

Question #2

1 punto posible (calificable)

Examine the Wilcoxon test statistic for x and y+10 and for x and y+100. Because the Wilcoxon works on ranks, once the two groups show complete separation, that is all points from group y are above all points from group x, the statistic will not change, regardless of how large the difference grows. Likewise, the p-value has a minimum value, regardless of how far apart the groups are. This means that the Wilcoxon test can be considered less powerful than the t-test in certain contexts. In fact, for small sample sizes, the p-value can't be very small, even when the difference is very large.

What is the p-value if we compare c(1,2,3) to c(4,5,6) using a Wilcoxon test?

Enviar Ha realizado 0 de 5 intentos

Question #3

1 punto posible (calificable)

What is the p-value if we compare c(1,2,3) to c(400,500,600) using a Wilcoxon test?

Envior	1
Enviar	Ha realizado 0 de 5 intentos

Load the NYC marathon data used in a previous assessment, and create a vector time of the sorted times: data(nym.2002, package="UsingR") time = sort(nym.2002\$time) Compare the following two plots. 1) A plot of the ratio of times to the median time, with horizontal lines at twice as fast as the median time, and twice as slow as the median time. plot(time/median(time), ylim=c(1/4,4)) abline(h=c(1/2,1,2)) 2) A plot of the log2 ratio of times to the median time. The horizontal lines indicate the same as above: twice as fast and twice as slow. plot(log2(time/median(time)),ylim=c(-2,2)) abline(h=-1:1) Note that the lines are equally spaced in Figure #2. Question #4 1 punto posible (calificable) Why do we see this relationship? Because log transformations always spread out the data Because log ratios transform to differences of logs Enviar Ha realizado 0 de 1 intento Anterior Siguiente >

© Todos los Derechos están Reservados



edX

Acerca de

Afiliados

edX para negocios

Open edX

Carreras

Noticias

Legal

Condiciones de Servicio y Código de Honor

Política de privacidad

Políticas de Accesibilidad

Política de marcas

Mapa del Sitio

Contáctanos

<u>Blog</u>

Contáctenos

Centro de Ayuda

Kit Multimedia















© 2022 edX LLC. All rights reserved.

深圳市恒宇博科技有限公司 <u>粤ICP备17044299号-2</u>