Inferential Statistics

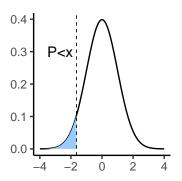
Pablo E. Gutierrez-Fonseca

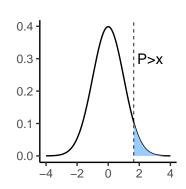
Fall 2024



Expanding on Hypothesis Testing

- 1-tailed
 - Hypothesis includes an expected direction.





- Decrease
- Cooler Smaller

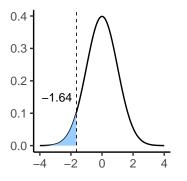
- Pablo E. Gutierrez-Fonseca

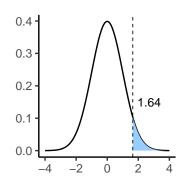
- Increase Warmer Higher
- Expand



Expanding on Hypothesis Testing

• 1-tailed - hypothesis includes an expected direction.





• If your obtained test statistic falls beyond the critical value (lightblue) for your given Alpha threshold = Significant result, **reject the nut** University of Vermont

Expanding on Hypothesis Testing

- 2-tailed tests:
 - Have no expected directionality hypothesized.
 - ▶ Splits the 5% of the area under the curve that would be considered significant between both tails of the normal distribution curve.
 - ▶ Are therefore less powerful tests (more likely to find a significant result).

