

---

# Introduction to Inference

## Tests of Significance

---

Section 6.2 (Continued)

# Today's objectives

Develop a nuanced view of significance testing for:

- Useful **interpretation** of results
  - Understanding truth, evidence, and decision-making
- **Planning** future samples or experiments

## Recall: steps of significance testing

- Formulate the **hypotheses**,  $H_0$  versus  $H_a$
- Calculate the **test statistic** and the relevant **P-value**
- Compare the P-value with a stated **significance level**,  $\alpha$
- State your **conclusion** in context