

Data 8 Lab 02

January 29, 2025



outline

announcements & reminders 1

mini lecture 2

discussion worksheet 3

lab notebook 4

lab attendance

reminder lab attendance is mandatory, but if you have any extenuating circumstances, please email me!

reminders

remember to...

assign pages for written work on HWs (and projects)

save the notebook before generating the zip / pdf

make sure the answers in the generated pdf match what you expect

verify Gradescope autograder results match what you expect

lab support!!

tutors will be helping out in labs! please say hi to them

no tech policy :(

we'll be enforcing no tech/laptop/ipad policy in labs (for the discussion part)

if you have approved accommodations

mini lecture!

cause & effect, Python, tables

cause & effect

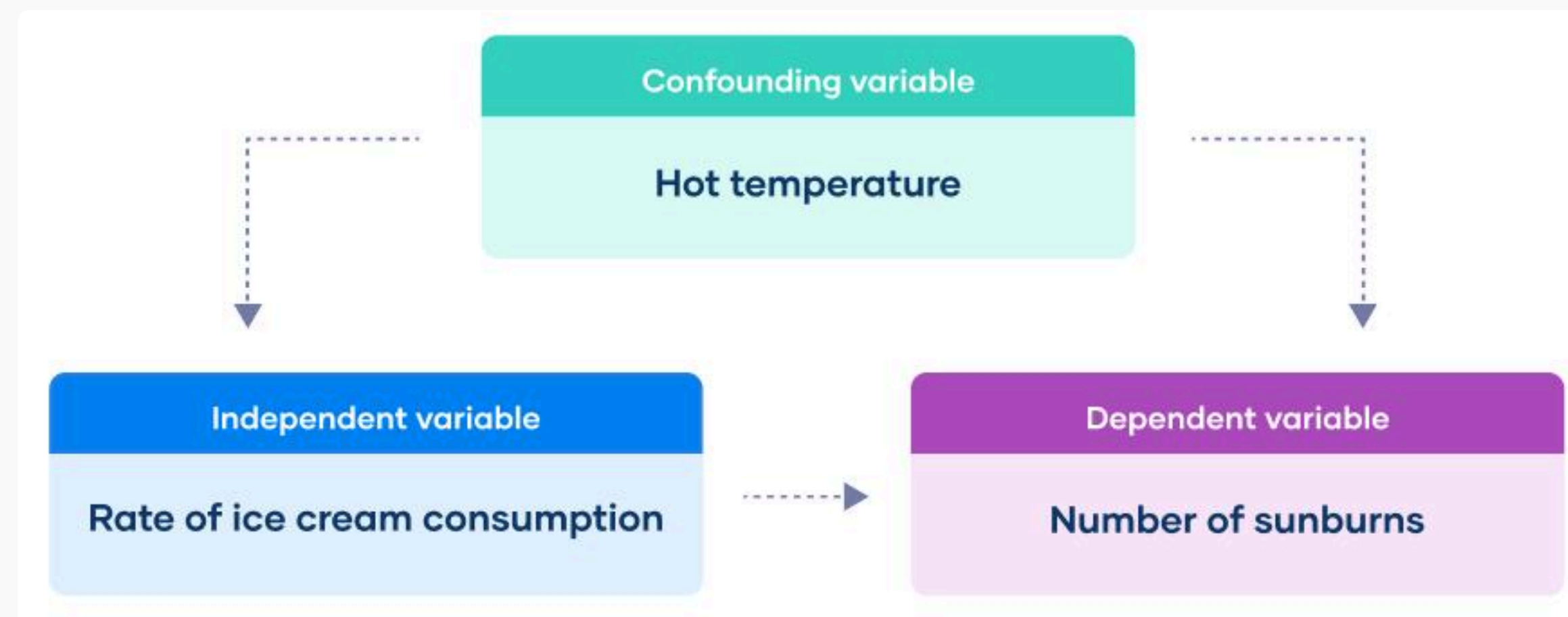
treatment group

group of people who **received** the treatment

control group

group of people who did **not receive** the treatment

confounding factor: underlying difference **OTHER THAN** the treatment



tables

Name	Age	Event	Time
Jonathan	34	100m butterfly	49.2
Marissa	22	50m freestyle	23.6
Richard	19	200m breatstroke	46.4

these are the rows

these are the **columns**

you can do many operations on these tables (which we'll learn throughout this semester), such as `.sort()`, `.where()`, `.select()`

discussion worksheet

discussion worksheets can be found on data8.org

1 practice question

A study followed 369 people with cardiovascular disease, randomly selected from all hospital patients with cardiovascular disease. A year later, those who owned a dog were four times more likely to be alive than those who did not. For all of the following questions, please provide a brief explanation.

- a. True or False. This study is a randomized controlled experiment.
- b. True or False. This study shows that dog owners live longer than cat owners on average.
- c. True or False. This study shows that for someone with cardiovascular disease, adopting a dog causes them to live longer.

my website, xie.nz/d8

all my resources (such as these slides) can be found on my website, xie.nz/d8

lab notebook

lab notebooks can also be found on data8.org

that's it for Lab 2! feel free to leave once finished
thanks for coming

all my resources (such as these slides) can be found on my website, xie.nz/d8
