



CSE 593

Midterm Review

Farnaz Jahanbakhsh

Logistics

- Assignment 1 (group) released.
- Assignment 2 being graded.
- Assignment 3 (Individual) due tomorrow!
- Midterm this Thursday!

On assignment 3

STORYBOARD



- MAKES NOTE OF SUPPLIES NEEDED ON CLIPBOARD
- PHYSICAL INVENTORY

PERSONA:

CORPORATE BUMER,
JAMES



- SELECTS ITEMS FROM FAVORITES LIST
- USES DESKTOP & SUPPLY LIST AS TOOL

SCENARIO:

REPLENISH OFFICE SUPPLIES



- RECEIVES SHIPMENT WINDOW W/ORDER SUBMISSION
- SETS PLAN FOR RESTOCK

On assignment 3

- The persona doesn't have to be present in every visual
- Show the persona for conveying:
 - Pain points, goals, needs, challenges, or sentiments
 - User-design interaction
 - Physical or social environment

Goals

Learn about midterm exam format

Go over the midterm evaluation

Review some concepts

Answer questions about prior material

Midterm format

- Date: this Thursday Oct 24th (open from 8am till 8pm ET)
- Location: Canvas Quiz
- Time: ~1-2 hour (open 12 hours)
- We will turn off Piazza, but you will be able to send messages to instructors
- You'll get one attempt at submission
- No lecture on Thursday
- Please do not talk to anyone about the questions until **Friday** 8pm

Midterm Format

- Total 100 points (10% of your final grade)
- Comprehensive exam (it includes all materials that we have covered up until this point)
- 20 questions
 - multiple choice
 - multiple answer
 - true/false
 - matching

Midterm course evaluations

Midterm Review

Signifiers & affordances

- Affordances: inherent properties of an object that suggest how it can be used:
 - “form follows function”



Signifiers & affordances

- Design in a way so that users know how to interact with objects
 - Use signifiers to make it clear how the user is intended to interact with the design
- Bad design: affordances and signifiers go against each other

Signifiers & affordances



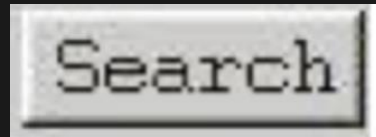
Signifiers & affordances



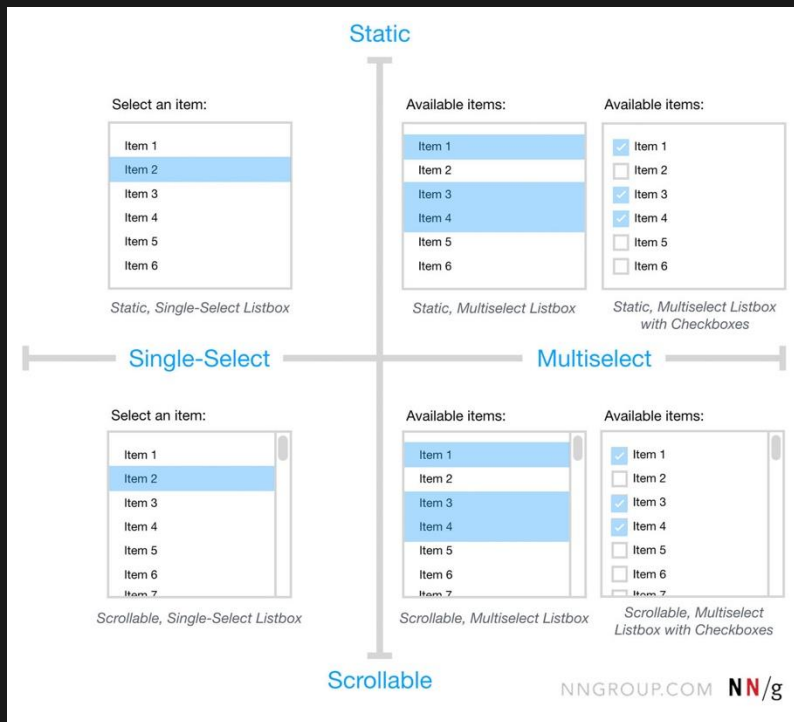
Signifiers are not innate.
Affordances are.



Virtual objects

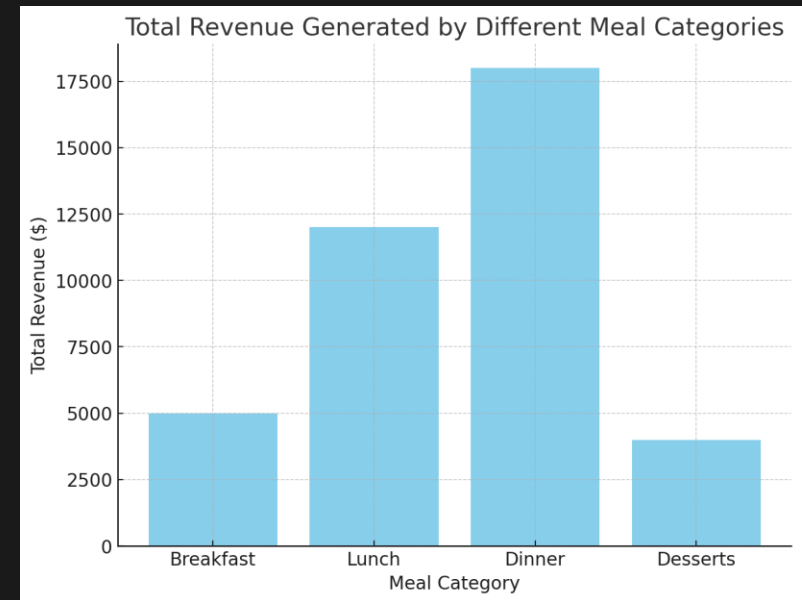
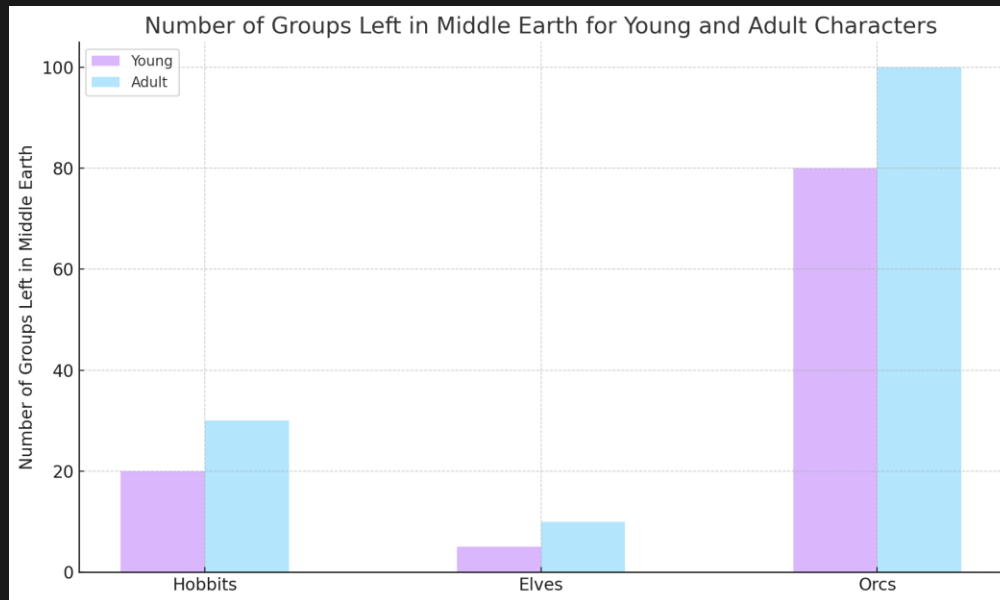


Start your community



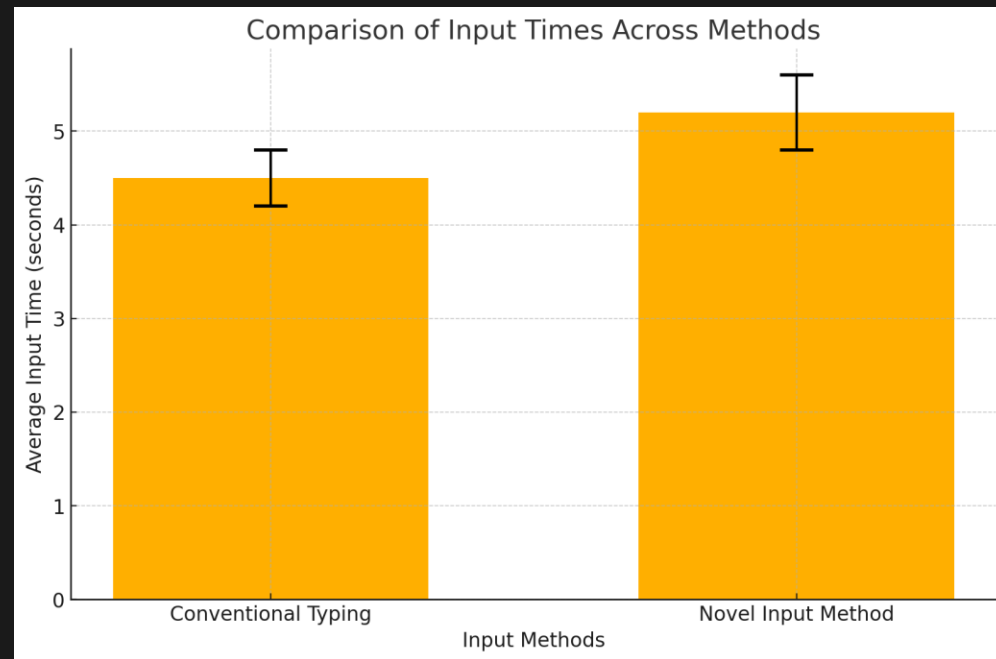
Bar charts

- Good for comparing quantitative data across categories



Bar charts – error bars

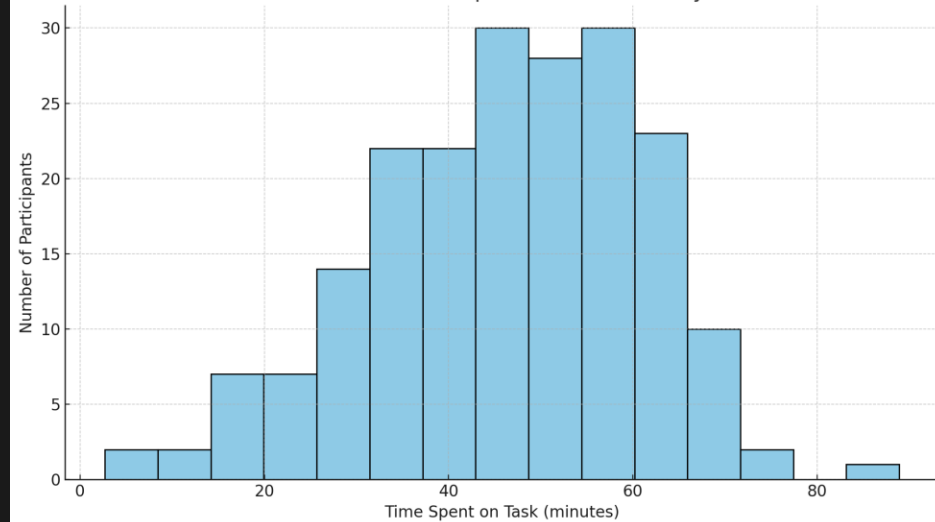
- Standard deviation: spread of individual responses
- Standard error: precision of the sample mean
- Confidence intervals: range of values likely to contain the population mean



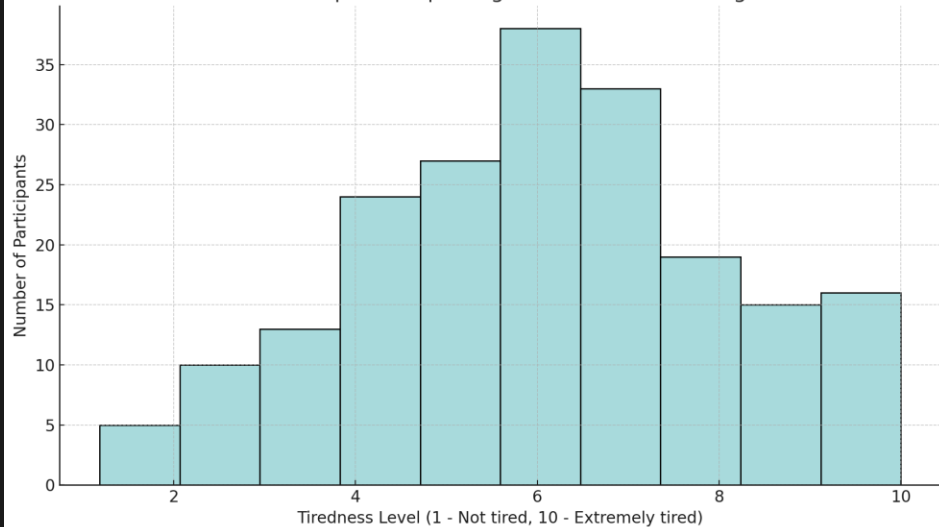
Histograms

For distribution of numerical data

Distribution of Time Spent on a Task in a System

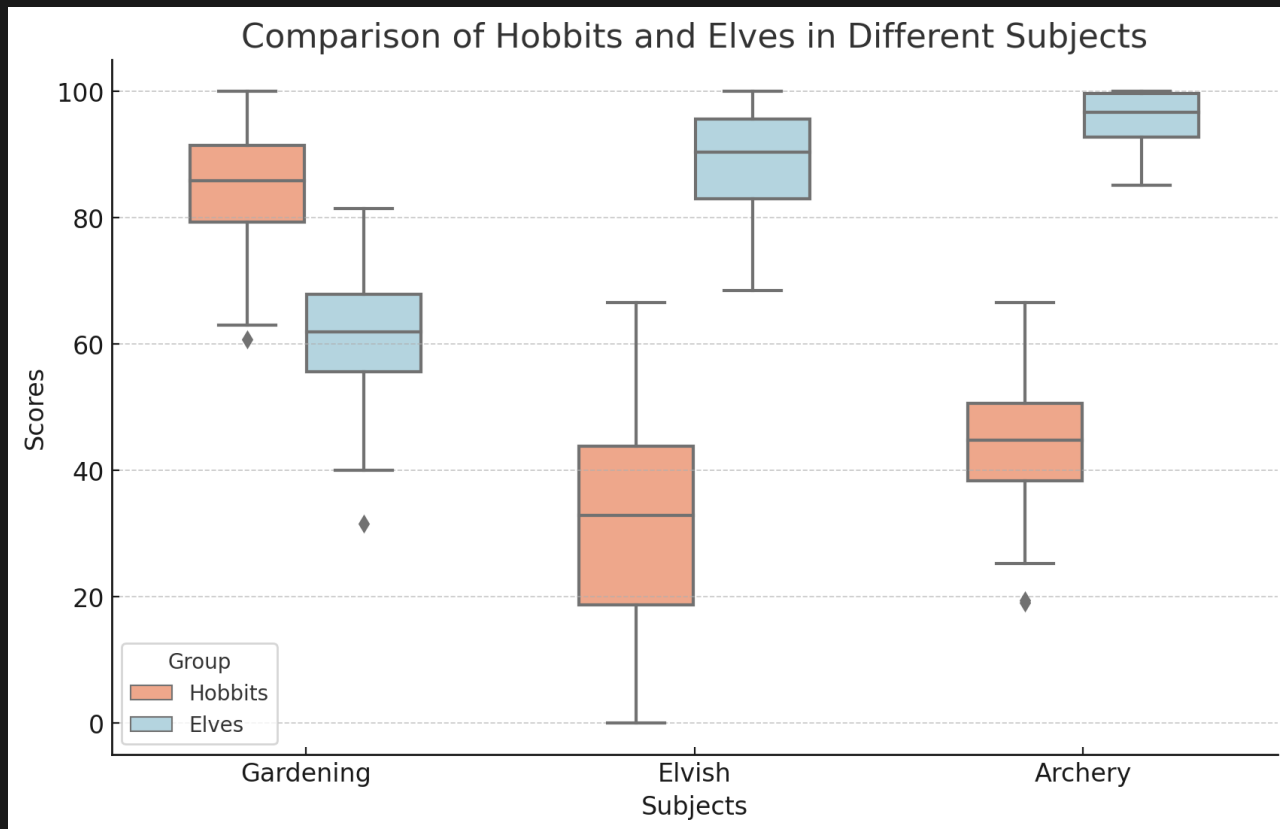


Distribution of Participants Reporting Tiredness When Using the Interface



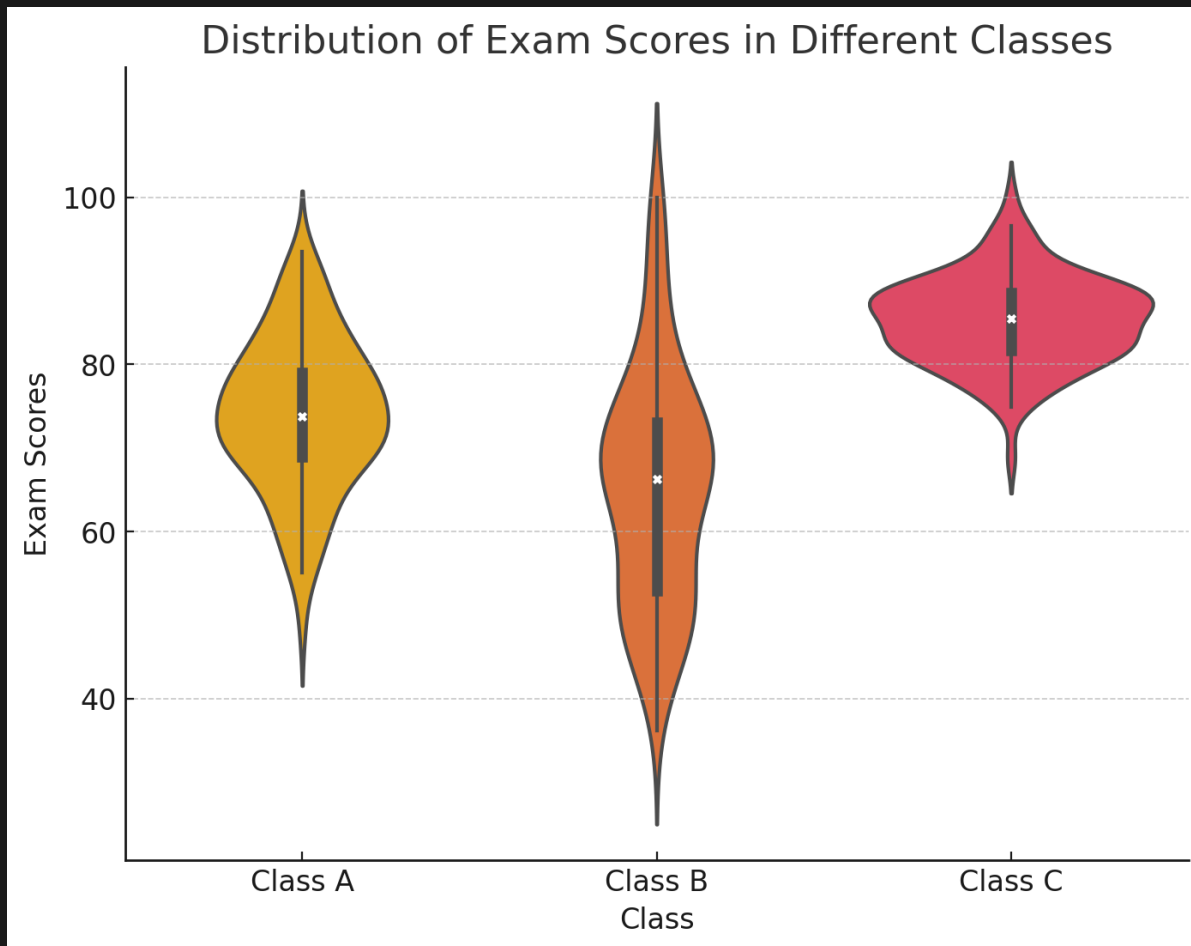
Boxplots

For showing the distribution and spread of a numerical dataset



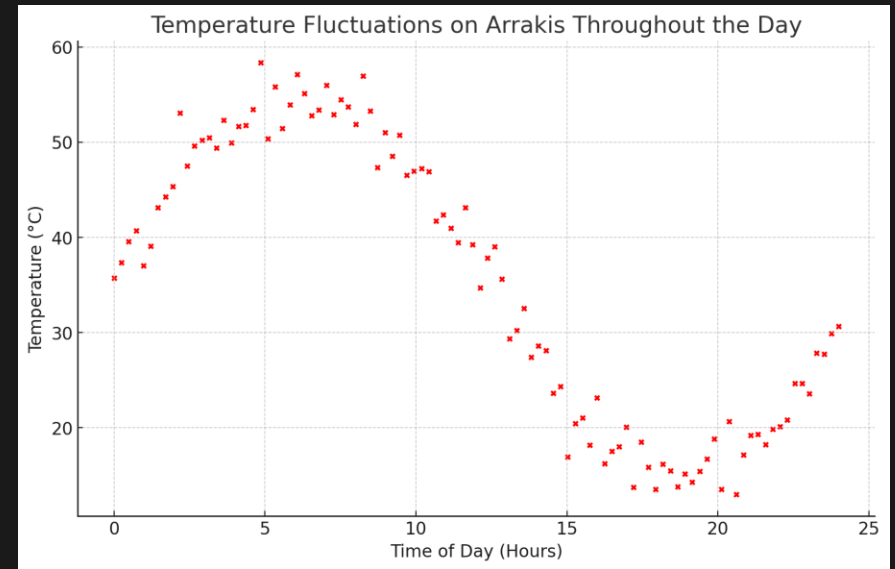
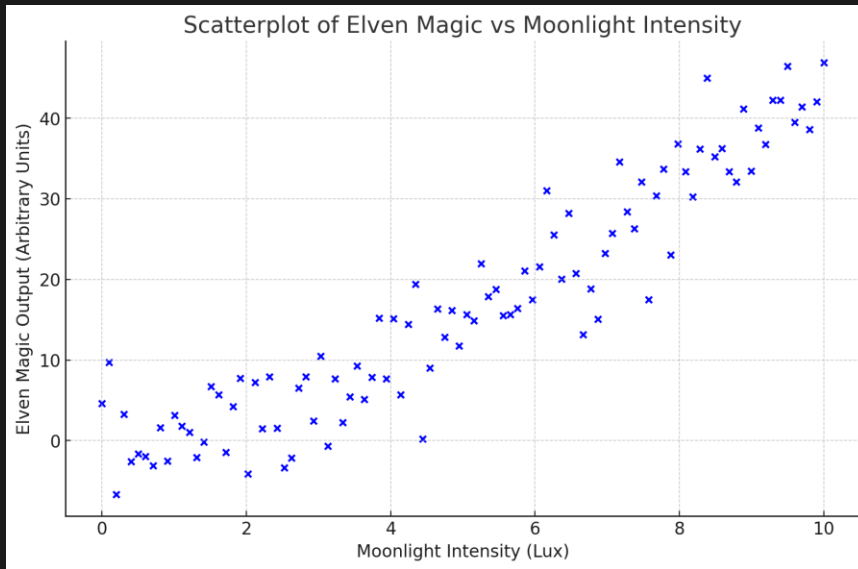
Violin plots

For showing the distribution and spread of a numerical dataset

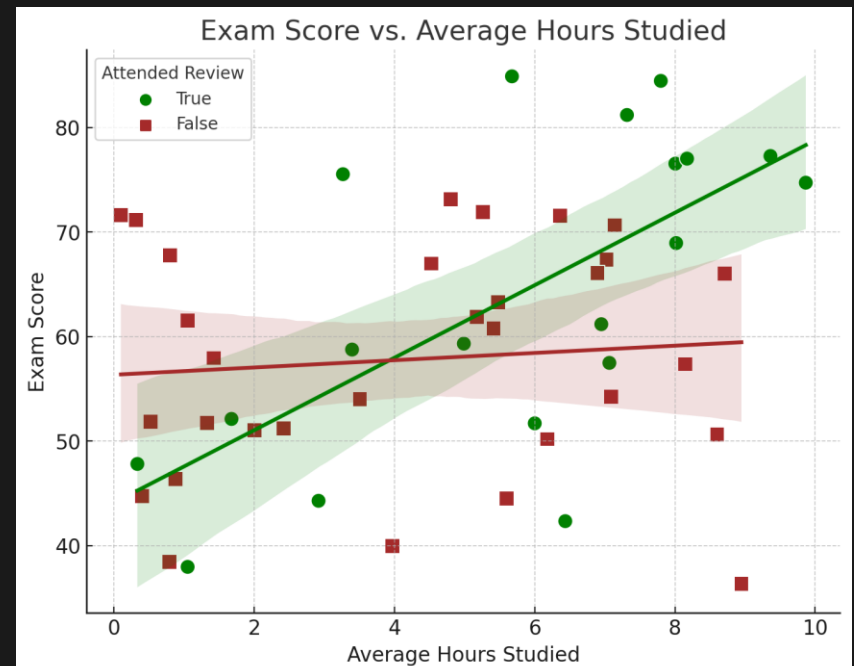
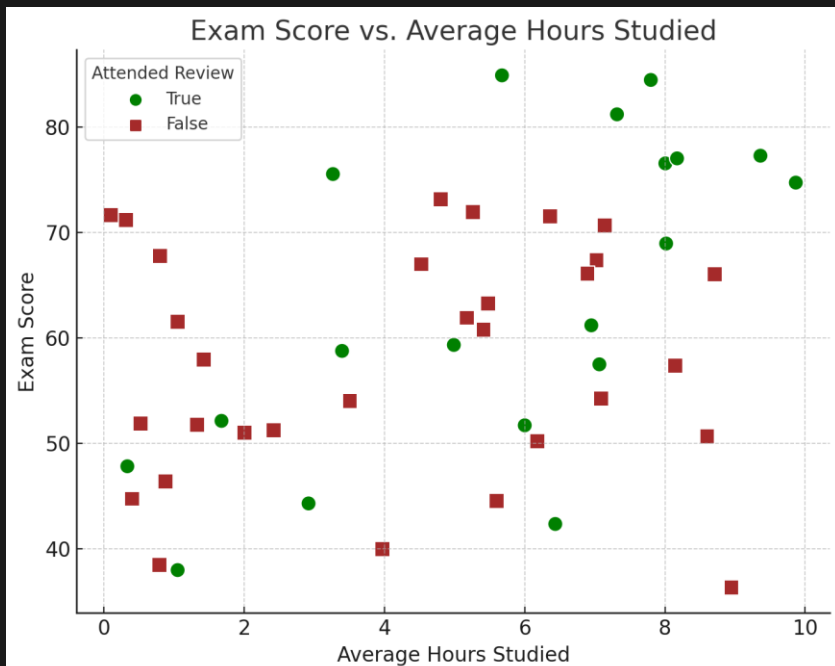
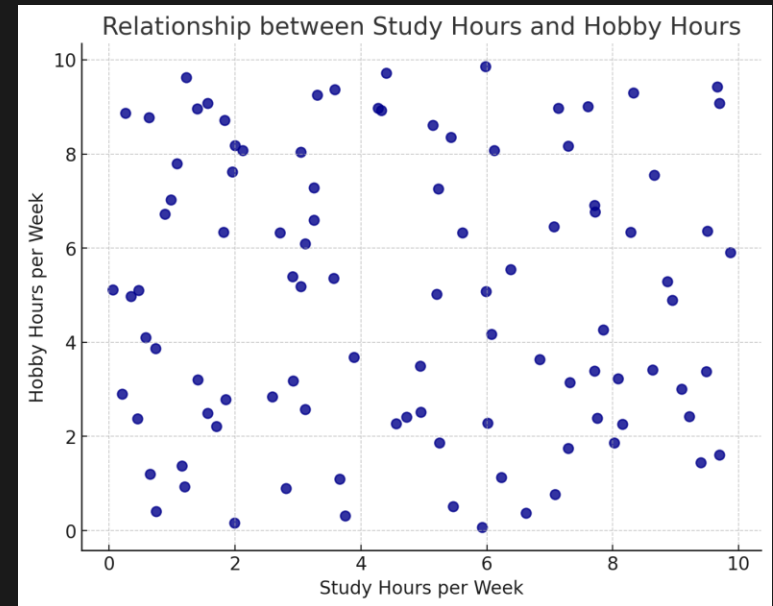


Scatter plots

Relationships between variables



Scatter plots





Questions, comments, and/or concerns?

Farnaz Jahanbakhsh

farnaz@umich.edu

<https://people.csail.mit.edu/farnazj>