# HUDK 4050:00 RE



https://stackoverflow.com/help/how-to-ask

### Research

Search for your answer

### Research

Search again for your answer

### Research

Search again for your answer just to make sure

# Clarity

- Ask question clearly
- Ask only one one question at a time
- Make sure the title says what it is on the tin
  - "R confusion" (Bad)
  - "What is the difference between a factor variable and a numeric variable in R?" (Better)
- Make sure spelling and grammar are correct (ask someone if you are unsure)
- Identify code with by using ``and >
- Don't use tabs! (SO doesn't interpret them)

### Format

- Title
- Question body: expand on title
  - How did the problem arise, brief background
- Code
- Reiterate question
- Thank you

## Reproducible Example

https://stackoverflow.com/help/mcve

- Minimal: Use as little code/explanation as possible
  - Don't post your whole assignment!
  - Recreate the problem with a smaller toy data set (you may solve the problem by doing this)

## Reproducible Example

https://stackoverflow.com/help/mcve

- Complete: Include all aspects of problem
  - Where did the data come from?
  - A single problem
  - What is the overall goal and the specific goal of the code
  - If you have a lot of code you need to isolate the line with the issue
  - It was working and then stopped

## Reproducible Example

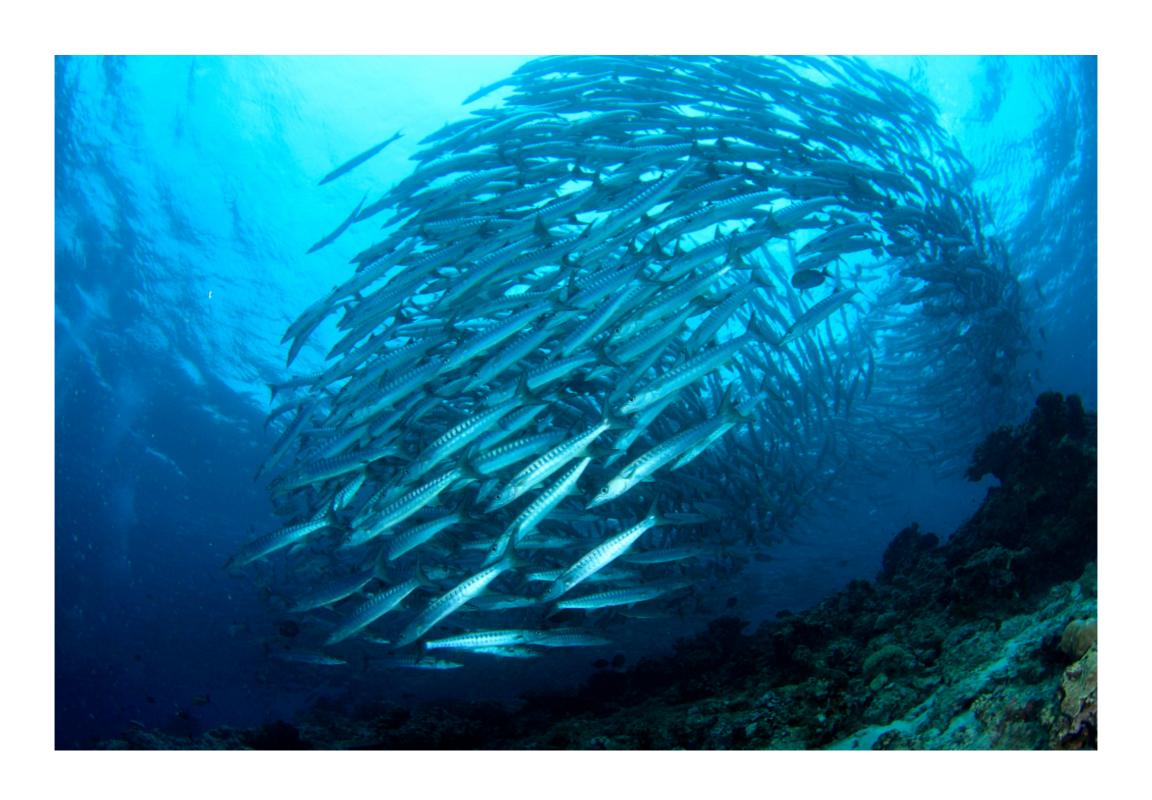
https://stackoverflow.com/help/mcve

- Verifiable: Can the problem be reproduced
  - Toy data
  - Code
  - Any other relevant information: system, R version

## Asking Good Questions

- Life skill not just for SO
- Many people don't have it
- It takes practice
- Is worth spending time to think about it

# Adaptive Systems



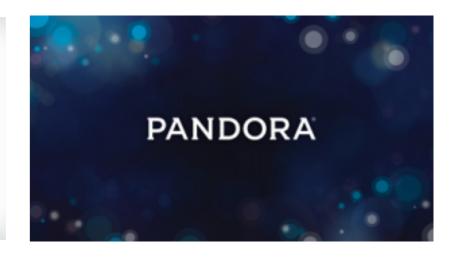
# Adaptive

- Originally = <u>assistive</u>
- ~1990s = sequential estimate of aptitude (IRT)
- ~2012 = <u>a system that adapts the educational</u> environment according to students' learning needs
- Distinct from Intelligent Tutors in terms of methods employed

## Adaptive Systems

NETFLIX





last.fm





# Adaptive Engines















adapt courseware

## Recommender Systems

Collaborative filter: build a model from a user's past behavior + similar decisions made by other users



Content filter: utilize a series of discrete characteristics of an item in order to recommend additional items with similar properties

