



CSCI 215

# Social and Ethical Issues in Computer Science

ACM Code Of Ethics

Ethical issues with A/R and V/R



# ACM Code Of Ethics

- <https://www.acm.org/code-of-ethics>
- Example of something that doesn't meet this
- Example of a product that follows this
- Case studies
  - How would you apply the principles and professional responsibilities to each case study?



# A Better Way

- Chandler – young developer at a major corp
- Develops in-house SW apps for the company's scientific research group
  - Computing calculations
  - While testing, he notices the outputs are not completely precise which means the calculations aren't precise
  - They meet acceptable degree of precision but not preferred degree of precision
  - He traces the problem to a standard library being used
  - He determines a new library needs to be written
- Boss: neither time or money to do this
  - He has been with the company 20 years and not programmed in a long while
  - His solution: include in documentation – current technology makes higher degrees of precision impractical



# Questions

- Does the ACM code of ethics require Chandler to appeal to higher authorities regarding his desire to use a new library?
- Does the code allow Chandler to appeal to a higher authority regarding his desire to use the new library?
- Does the code prohibit Chandler from appealing to a higher authority regarding his desire to use the new library?



# A Better Way (Cont)

- ACM/IEEE SW Engineering Code of Ethics and Professional Practice:
  - 3.01 – Strive for high quality, acceptable cost, and a reasonable schedule, ensuring significant tradeoffs are clear and accepted by the employer and the client, and are available for consideration by the user and the public
  - 3.05 – Ensure an appropriate method is used for any project on which they work or propose to work
  - 3.11 – Ensure adequate documentation, including significant problems discovered and solutions adopted, for any project on which they work
  - 4.01 – Temper all technical judgments by the need to support and maintain human values



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# Recitation Week 7

- Find an example of an ethical issue with virtual or augmented reality
- Prepare a presentation of your findings
- No more than 5 slides (5 pts)
  - Must list the link you used
- Presentation (both slides and talking) content – 15 points
- Presentation comfort – don't read slides, etc (5 pts)
- 20 points
- 5% of your total grade
- **Each person has 3 minutes** – 2 minutes for questions
- Post your slides to brightspace before recitation



# A/R and V/R

- [https://www.youtube.com/watch?v=xNMi5233T4k – V/R](https://www.youtube.com/watch?v=xNMi5233T4k)
- thought about the video?
- In groups
- Tell me what is the difference in A/R and V/R
- what's an example of A/R?



# V/R Lab

- What did you learn?
- What issues did you see?



# Intro - Tues

- can't find a qr code app
- still using tickets
- Paper is due Tuesday – any questions?
- recitation volunteer



# V/R and A/R Ethical Issues

- <https://thenextweb.com/contributors/2018/04/18/9-ethical-problems-vr-still-solve/>
- <https://becominghuman.ai/six-ethical-problems-for-augmented-reality-6a8dad27122>
- Ethical issues with V/R and A/R
- Do you believe these are ethical issues and do you believe we need to address solving them?