

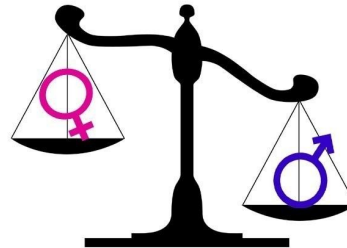
The background image shows a classroom with several children sitting at wooden desks. They are wearing school uniforms, including blue shirts and striped dresses. Many of the children have their hands raised, indicating an interactive learning environment. Overlaid on the left and bottom right of the image is a decorative graphic consisting of a network of interconnected nodes and lines, resembling a molecular structure or a digital network. The nodes are represented by circles of varying sizes, some solid and some outlined, connected by thin lines.

Scholarly Hazing

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Gender Bias is "[the] differential experiences related to classroom participation, socialization of behavior, textbook content, and more." (UCLA, 2014)

Abstract/Real-World Problem

Gender Bias in the classroom affects learning for those involved (students, professors, etc). Using data collected, we aimed to bring awareness to the issue. Our main goal was to find out if people were consciously thinking about gender bias behaviors.

Some Gender Bias behaviors include, but not limited to:

- ◎ Usually males receive more teacher questions than females.
- ◎ Minimal wait time for females' answers
- ◎ More frequent follow-up questions with males
- ◎ Uneven ratio of student/teacher interactions: # of responses male to female = 7:3

Motivation Behind Project

We first thought of this idea when our all-female group presented to a class and we felt our ideas were not validated. Every student should be treated equally and with respect.



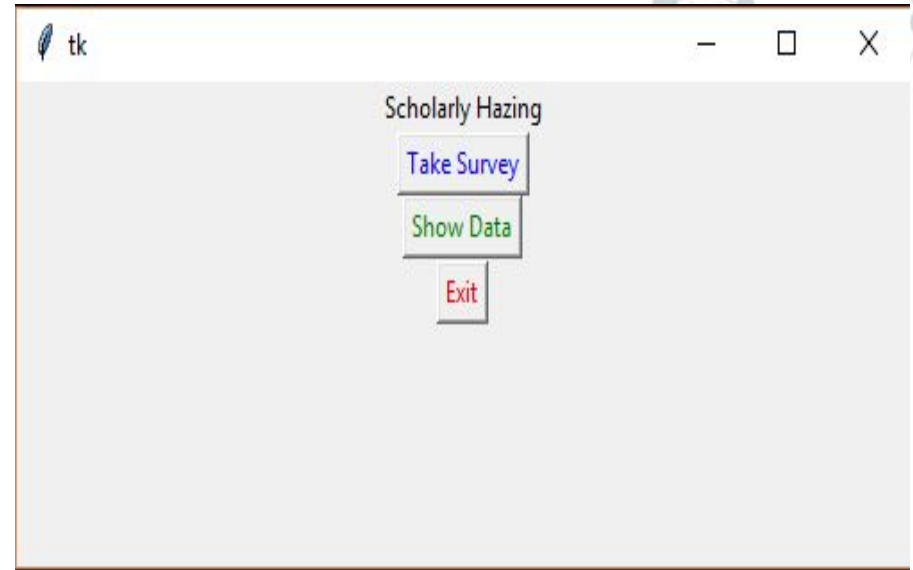
Data Analysis

Surveying current students at USG, we created pie charts and bar graphs like the difference between female, males, and others who took our survey, if they believe gender bias exists in the classrooms, and if they are bias towards the people they communicate with.



Project Progression

- Project Proposal
- Creating GUI home screen
- Getting home screen options to open windows
- Importing spreadsheet into GUI
- Displaying graphs into GUI



Computational/Software Engineering Techniques

- ◎ Tkinter for GUI
- ◎ Matplotlib for graphs
- ◎ Pandas for data handling
- ◎ Webbrowser
- ◎ Quality Testing: making sure each window opened
- ◎ Documentation: comments and docstring

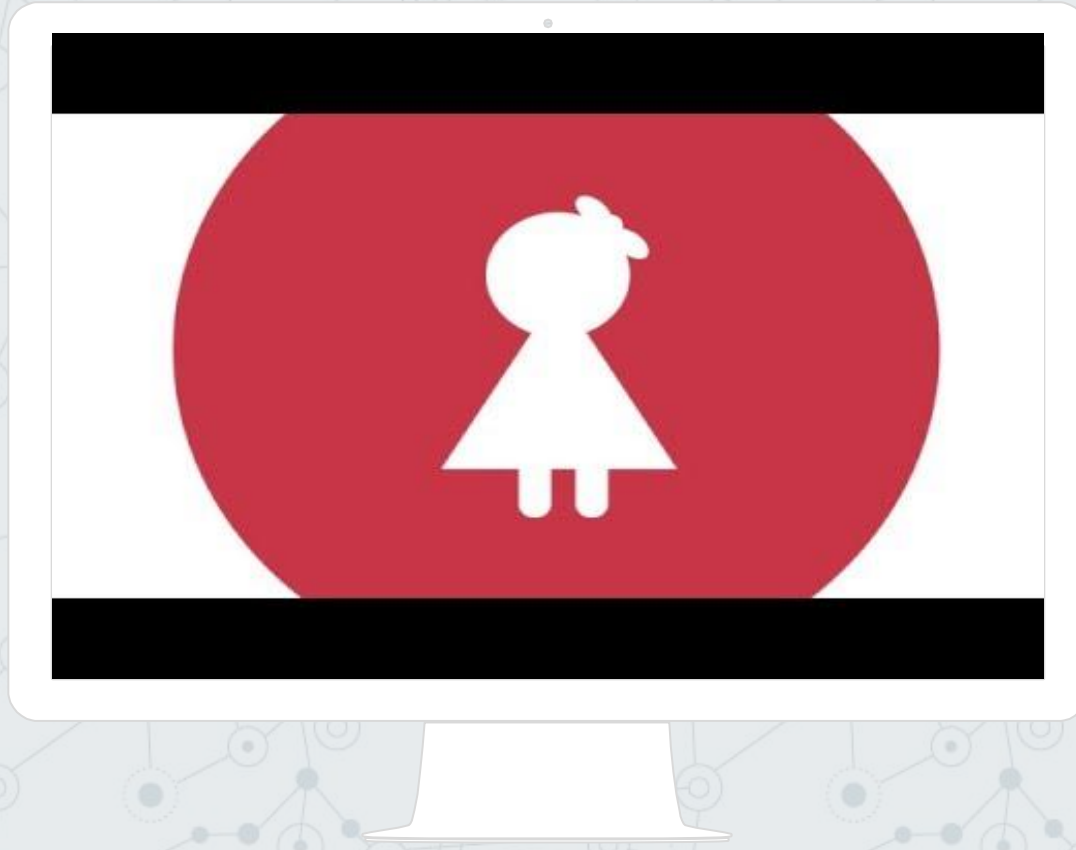


**LET'S
DEMONSTRATE**

Limitations/Improvements

If our group was given more time we would improve on..

- ⦿ Increasing our sample size
- ⦿ Ensuring the API ran correctly (live data after user took our survey, ability to refresh, etc.)
- ⦿ Displaying more types of graphs/drawing conclusions
- ⦿ Making the GUI interactive (welcoming user, providing an 'about GUI' window, keeping the window size consistent, etc)



Closing Video Gender Bias in the Classroom

Thanks!

Any questions?

You can find me at:

tinyurl.com/inst326gb



Resources

- ◎ Center for Mental Health in Schools at UCLA. (2014). Gender Bias Faced By Girls and What We Can Do: One Student's Perspective and Appended Information from the Center. Retrieved from <http://smhp.psych.ucla.edu/pdfdocs/genderbias.pdf>
- ◎ Delaware State Education Association. (2010). Gender Bias. Retrieved from <http://www.ccctc.k12.oh.us/Downloads/Gender%20Bias%20in%20the%20Classroom2.pdf>
- ◎ Python & Tkinter: Make an Exit Button. (2016, October 31). Retrieved from https://www.youtube.com/watch?v=tMhFk_GgmFk
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