Where have all the women gone?



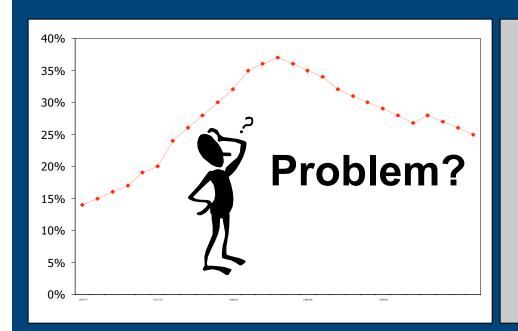
Ada Lovelace, The 1st Programmer



Grace Hopper, Creator of Cobol



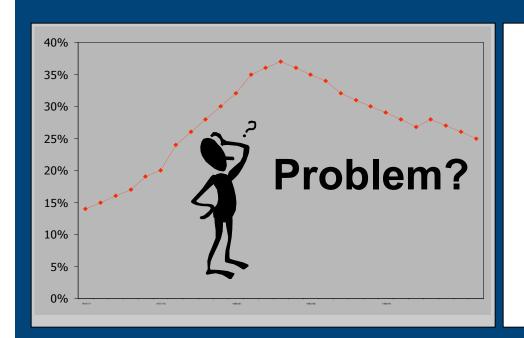
Katie A. Moor PhD Student Indiana University

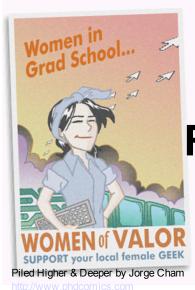






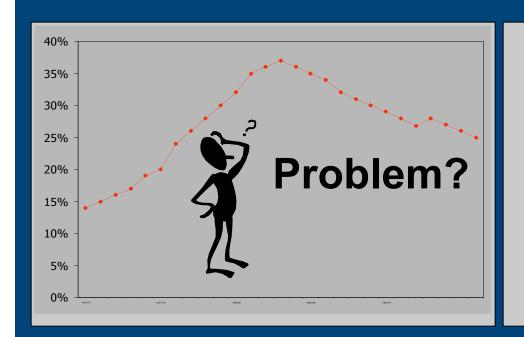








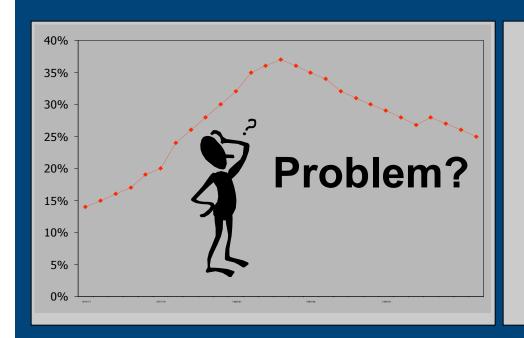






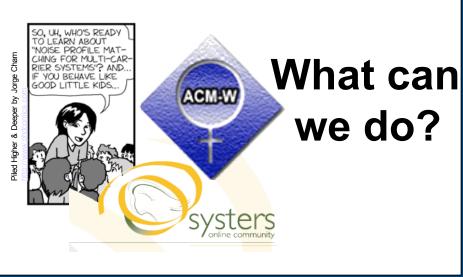






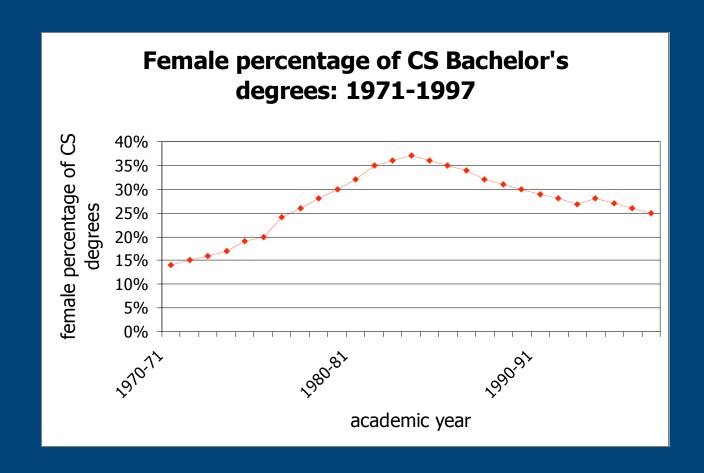




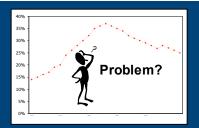




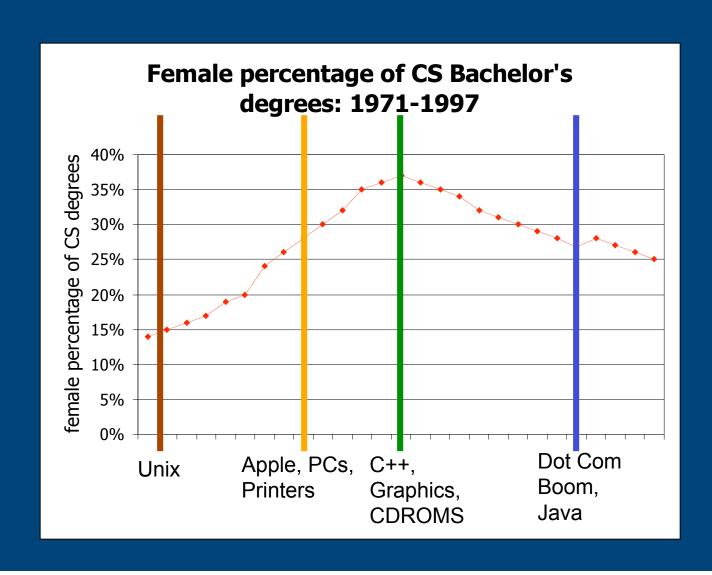
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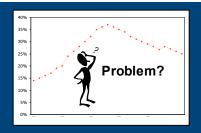


Cohoon, J. McGrath. "Toward Improving Female Retention in the Computer Science Major" in Communications of the ACM: May 2001.

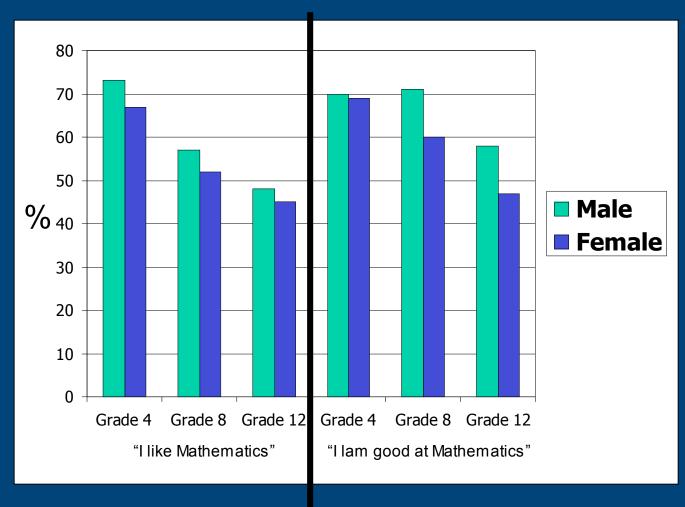


Where have all the women gone?

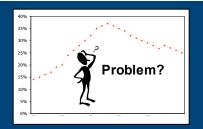




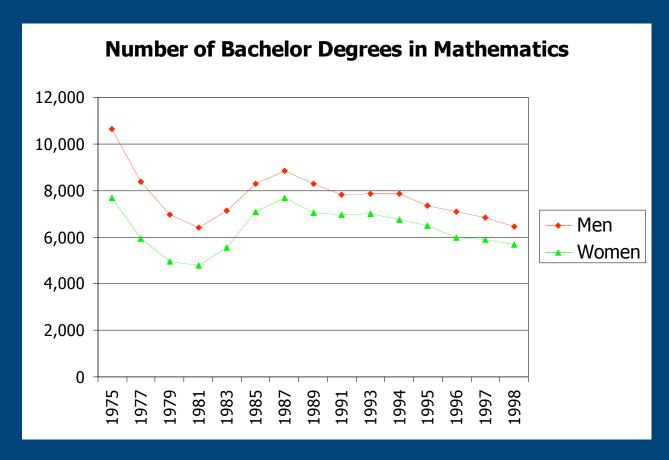
Dispelling some rumors...

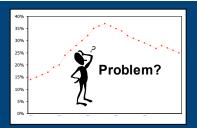


National Science Foundation. Women, Minorities, and Persons with Disabilities in Science and Engineering: 2002. July 2003.

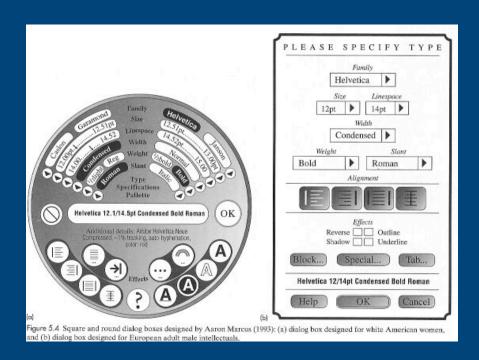


Women can do math





Why do we need women in computing?



- Program design is improved when designers better understand users.
- Having designers from a diversity of gender and ethnic backgrounds will improve designs.

DESIGN: Marcus, A (1993) Human communication issues in advanced Uls. Communications of the ACM, 101-109.

USER STUDY: Teasley, B., Leventhal, L., Blumenthal, B., Instone, K., and Stone, D. 1994) Cultural diversity in user interface design. SIGCHI Bulletin, 26(1), 36-40.

Is Diversity in Computing a Moral Matter? In Inroads, by Deborah G. Johnson & Keith W. Miller



Give women the opportunity to succeed in computing



- Over half of male students who have a computer at home have the computer in their room
- Only 17% of women received a computer early in their education (40% of male students reported having computers early on)

Unlocking the Clubhouse: Women in Computing. Jane Margolis and Allan Fisher



Where do we start?



- At all ages, boys spend more times playing video games
 - Age 8, twice as much time gaming than girls
 - Over age 14, over 50%
 more gaming than girls
- Gaming = confidence in computing

Unlocking the Clubhouse: Women in Computing.
Jane Margolis and Allan Fisher



High School is Important



- Boys typically make decisions about computing early on from gaming
- Girls "try things out" in high school



How do we get women interested in computing?







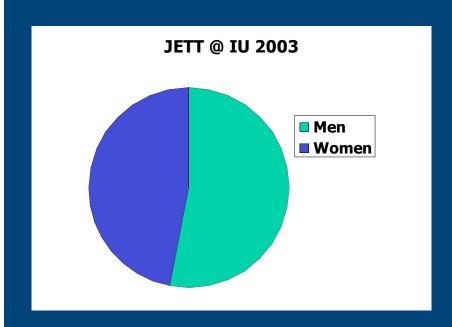
Dispel the geek stereotype



- CMU Roadshow
- Invite guest speakers
- Be a positive role model



Educate yourself, teachers, counselors, and parents



- Recommend home computers be placed in centralized locations
- If your classes are not 50-50, notify administrators
- Talk to parents and counselors to help encourage women
- Create a technology club



Create opportunities for interdisciplinary work

- Over 40% of women wanted to do interdisciplinary work (art, medicine, education, etc.).
- Women design applications for communication and collaboration. Men design applications as an "extension of power."

Me Wizard Day 2002 at the University of Notre Dame Webslinger Laboratory Laboratory Have you seen the Harry Potter movie?? Great Books to Read Information Well, if not, this review is for you! Information about the Lab Will put Your Mind in the Lead!!!! How to create a Web Page Student Webpages ARTEMIS FOWL Abigail Klopfenstein Angela Hicks Bethany Werge Crystal Bunkelman DaNeale Diggins Daisy Ledesma Jenny Mailande "Harry Potter..the movie." If you like Harry Potter, The H.P. movie has great scenes, "But the then you'll like Artemis Sorcerer's Stone ending," some parents say who took their child 24 99-29 99 Barnes & Noble to the movie, "Scared my children a bit. They loved the rest, though." Unsuprisingly enough, 🐧 Start 🛮 🛂 🗞 🕲 🖟 🗐 1:ce... 🗿 Rea... 🕲 Goo... 🔼 Micr... 🔼 2:ce... Prefere... 🐧 Ms... 🕲 Do... 🕻 Downlo... 🗘 Downlo...



Unlocking the Clubhouse: Women in Computing. Jane Margolis and Allan Fisher

Honey et al. (1991) Bank Street College Center for Children and Technology.



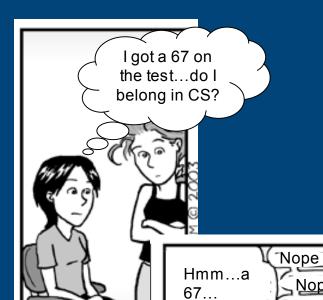
Provide a safe, positive lab environment



- Computer labs allow students to get a break
- Limit harassment and lewd conduct
- Lab set-up influences how students work



Create a community for all students



 Why aren't there Men in Education or Men in Psychology groups?

Not my fault,

the teacher

can't teach!

Nope

Nope

- Create a support structure for female students
- Keep in mind how people think



Encourage women!

- Be aware of your voice, gestures, and body language
- Do not "talk down to girls"
- Ask high-order, open ended questions to all students
- Put girls in touch with female scientists
- Encourage questioning and exploration for all students



Get Involved!

- ACM-W High School Chapters
- Systers
- Computer Girl
- Regional Grace Hopper Conference



