Demystifying and Degeekifying Computing through K-12 Outreach

Workshop #21











Outreach at IU: Just Be

Our Presentation

We have 5 different types of slides:

- Personal
- Perspective
- Interaction
- Research
- Now what?



Personal Slides

Goal: We want the students to be able to relate to us.

- Story about you being "their age"
- How you got into computing
- Something you have done in computing
- What you like to do for fun



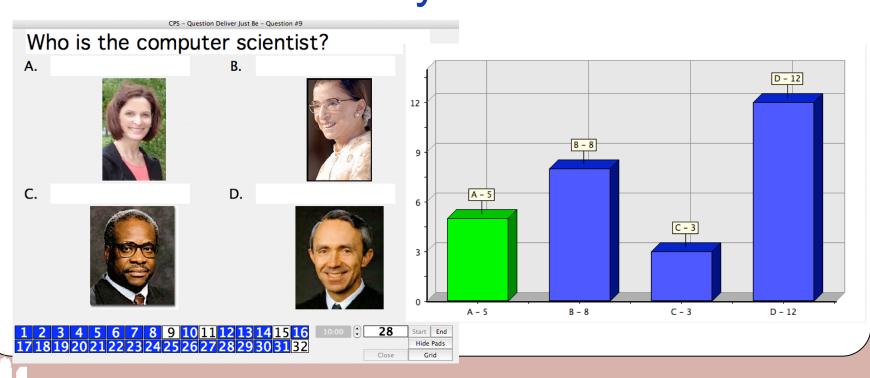
Perspective

Goal: Find out what the stereotypes are

- Perceptions of people in computing professions
- Perceptions of computers and computer applications

Interaction

Goal: Keep them involved and lively. We use the CPS system to dispel myths.



Research

Goal: Highlight exciting, accessible research being done at IU

- What the research is, who did it
- What kinds of people use it, helped to create it
- What skills are needed to do something like this



Now What?

Goal: Give them ideas about how start exploring computing now. Reemphasize that anyone can do computing, it is highly interdisciplinary and we need all kinds of people in computing.



Questions?

- Samantha Foley (ssfoley@indiana.edu)
- Jennifer Franko (jefranko@indiana.edu)
- WIC@IU http://www.cs.indiana.edu/wic/
- Just Be http://www.cs.indiana.edu/cgi-pub/wic/outreach/
- COIN http://www.cs.indiana.edu/cgi-pub/wic/outreach/COIN.php
- Bring IT On! http://www.cs.indiana.edu/bringiton/

Outreach at CU: Beyond Computing...

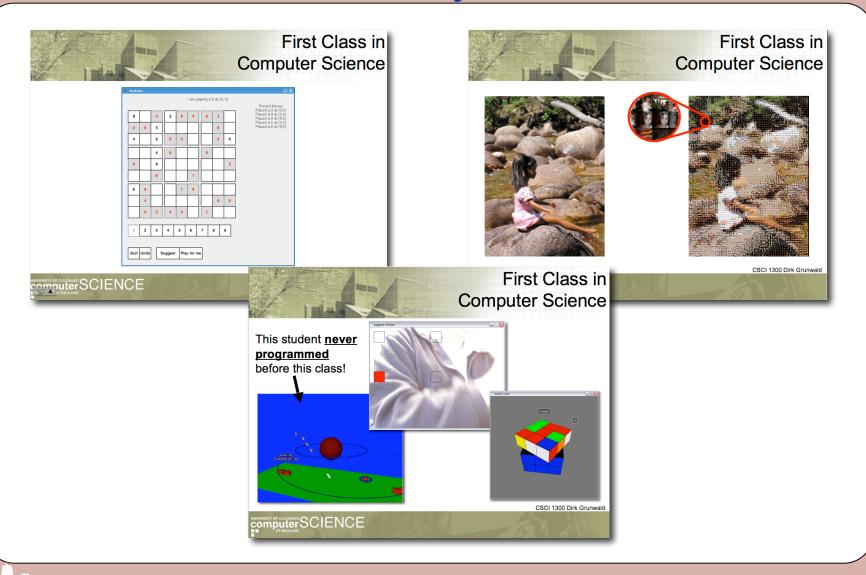
About Our Presentation

- Started Fall 2006
- Diversity Task Force (3 professors)
- Presenters: 5 professors, 3 students
- Over 70% of faculty participation to help in development
- 2 professors do scheduling
- Budget \$0

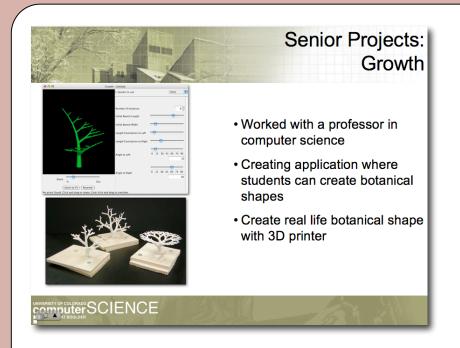
Connect with the students....

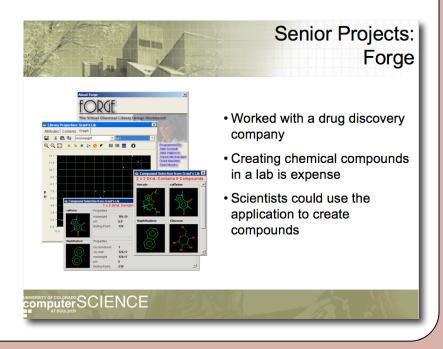


Tell them what they can do soon...

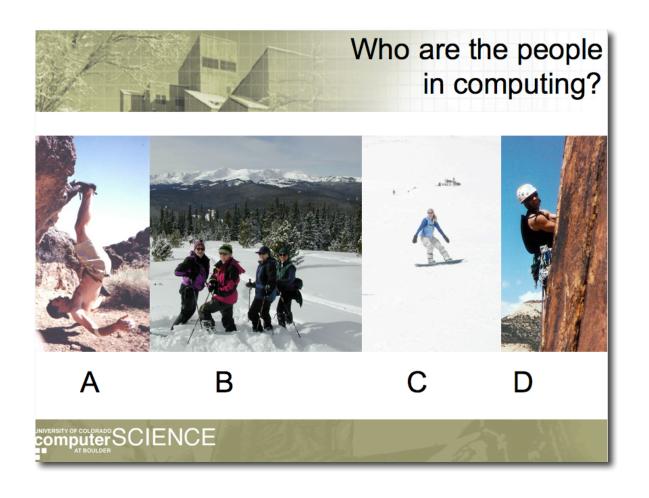


Tell them what they can do later...



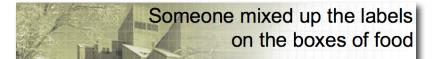


Guess the CS person...low tech



Research Examples Interaction





Cheetos

Candy Bars

Cheetos **Candy Bars**

All of the boxes are incorrectly labeled.

You can only pick from one box to determine how to correctly label all of the boxes.

omputer SCIENCE

Contact Info

- Katie Siek
 - ksiek@cs.colorado.edu

Sponsors: iClicker

Brainstorming Session

- Intended audience
- Goal of presentation
- Who are the presenters?
- Where will you present?
- How to give the presentation?
- Content of presentation

Intended Audience

- 10-12th graders science/math
- 10th grade career
- 5th grade
- Middle school minorities
- Inner-city
- Girls only
- Musicians & artists
- Science club
- Home schoolers
- Everybody in middle school
- Parents and teachers and guidance counselors and school board
- Girl scouts/ boy scouts
- Gifted and talented programs

Goals of Presentation

- Deliver a message
 - CS is a viable/exciting/fun career
 - Social career
 - You CAN do it!
 - Lots of jobs \$\$\$\$\$
 - Variety, always changing
 - CS people are REAL and have lives
 - Broaden view
- Increased enrollment

Who are the Presenters?

- ACM students
- Female and minorities!
- Faculty
- Variety of students
- Students that WANT to do it
- Good communicators/presenters (funny!!!)
- Role models
- Close in age
- Hardworking students who may not be geniuses
- Knowledgeable about the process

Where will you present?

How to give presentation



Content of Presentation

- How it makes the things they think are cool possible (rendering, graphics, video games, computational science, myspace......)
- Student projects (flashy GUIs, esp. freshmen)
- Multimedia highlighting CS fields + music (make sure it is cool/interesting)
- Eye candy <-- ask a teenager!!!
- Low tech, problem solving
- Personal statements
- Watch out for terms... try computing or IT

Create Your Own!

Grab a template here:

http://www.cs.indiana.edu/~menzel/SIGCSE2007/

Your Catchy Title Here

Subtitle if you would like or insert a picture/school logo/mascot

About Us



Research Slide One

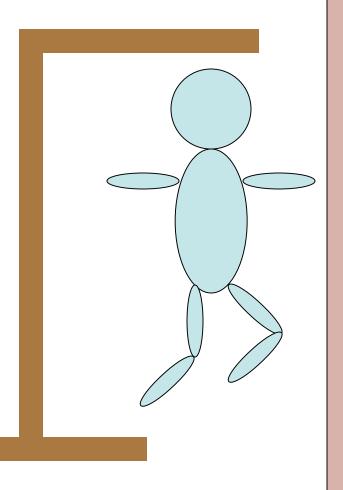
- Remember to change the title of the slide
- You can add some text here or make the pictures bigger.
- Try to use flash pictures, animation, etc. to show how exciting computing is.
- We try to use as little text as possible and instead put the text in the notes area to remind presenter what to say (e.g., using Slide Show-> View Presenters Tools)

Research Slide Two

- Remember to change the title of the slide
- You can add some text here or make the pictures bigger.
- Try to use flash pictures, animation, etc. to show how exciting computing is.
- We try to use as little text as possible and instead put the text in the notes area to remind presenter what to say (e.g., using Slide Show-> View Presenters Tools)

Interaction Slide

- Remember to change the title of the slide
- Create a slide that gets the audience to interact and think like a person in computing
 - A logic problem
 - Popular logical thinking game
 - Example of class project (e.g., hangman - select slideshow to see animation)



Contact Info

- Presenter Name
 - Email address
- Presenter Name
 - Email address

 Sponsors: [sponsor list - people who gave you money, support, time, to create this presentation]

Thanks for Coming!

Questions? Comments?