Welcome 2014 CS Academy!
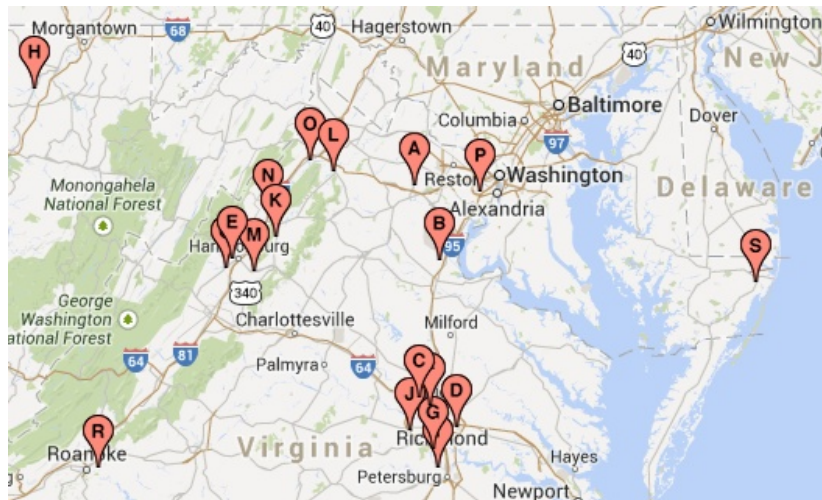
Introductions and Survey Results
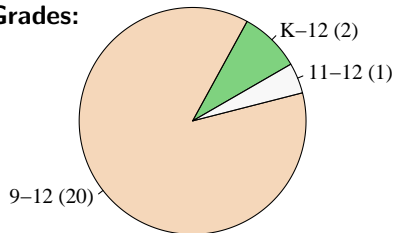
23 Teachers, 19 Schools
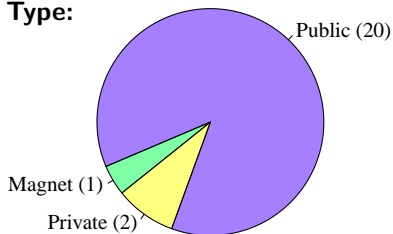

Interactive Map: http://goo.gl/Bjk6Ts

School Demographics

Grades:
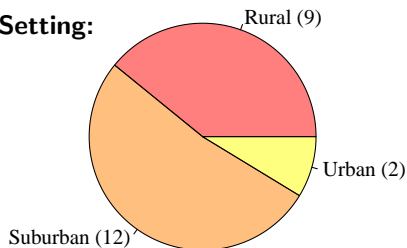
- K–12 (2)
- 11–12 (1)
- 9–12 (20)

Type:

- Public (20)
- Magnet (1)
- Private (2)

Setting:

- Rural (9)
- Urban (2)
- Suburban (12)

Mission:

- Comprehensive (12)
- Tech (3)
- College Prep (8)
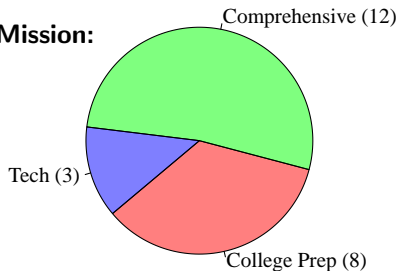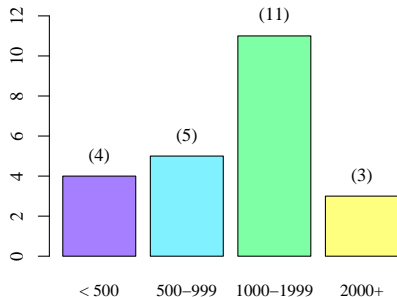
Student Demographics
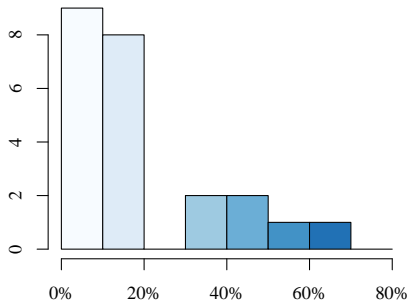
Background

Department
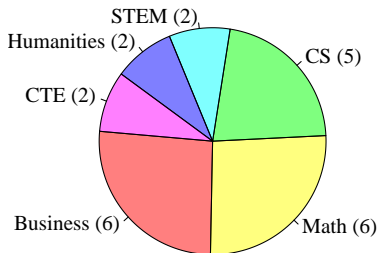
Degrees
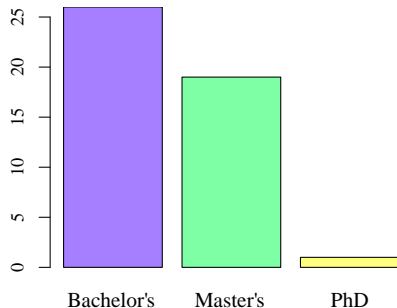
Education

Bachelor's Degrees

- Accounting (3)
- Business/Ed (4)
- Chemistry (2)
- Communications
- Computer Science (3)
- Education (2)
- English (2)
- French
- Ind Engineering
- Mathematics (7)

Master's Degrees

- Accounting
- Education (8)
- Instr Technology
- Mathematics
- MBA / MSBA (5)
- MIS (2)
- Software Eng

Ph.D. Degrees

- Mathematics

Teaching Experience
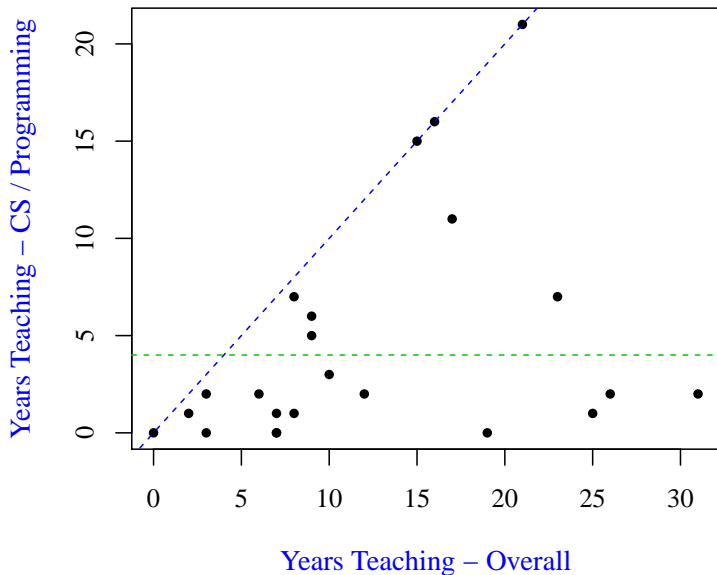
Other CS Experience

Before Teaching

- Statistician, 3 years
- Govt Contracting, 8-10 years (2)
- Programming, 14 years
- Programming, 20+ years (2)
- Management, 20+ years

While Teaching

- K-8 outreach
- Summer workshops
- Zero/other robotics

Expected Outcomes

*How do you expect the academy to enhance
or change your teaching of computer science?*

Sample Responses

More background

- "I need a more well rounded appreciation for Computer Science."
- "I expect to add enrichment activities that will deepen the learning of my students."

More experience

- "I am starting from ground zero, so the academy can only enhance my teaching of computer science."
- "There is always ROOM for improvement in any classroom, no matter how long you have taught a class."

Sample Responses (cont.)

Ideas for teaching

- ▶ "I am always looking for new labs that I have not done before, new languages or topics I have not covered."
- ▶ "Looking forward to getting more pointers on teaching the new AP CS course."

### Broadening participation

- ▶ "I am interested in promoting these careers to students who historically have not expressed an interest."
- ▶ "I hope to learn new methods of teaching to engage students and hopefully enhance the curriculum to attract more minority and female students."
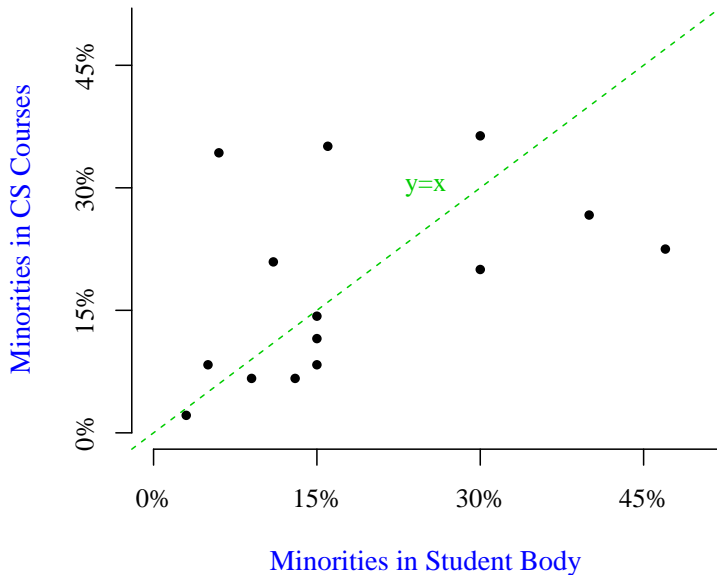
Speaking of Enrollment

How many CS students are we teaching?

Females

Total Students in CS Courses
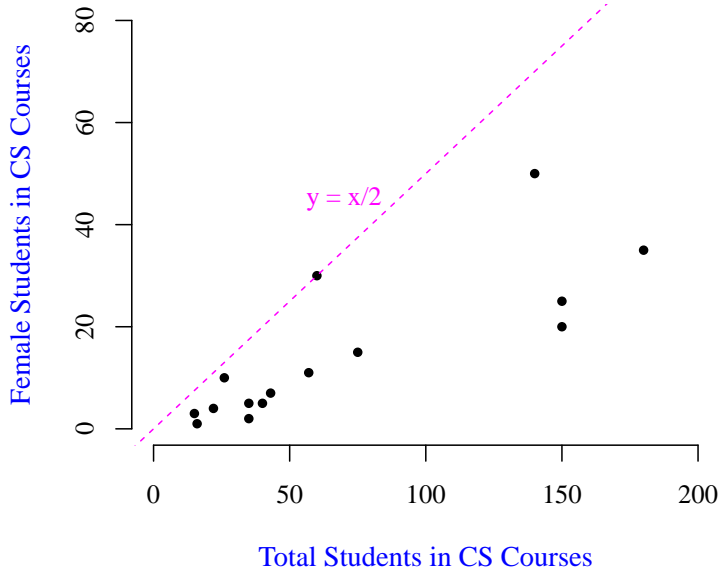
Minorities

Special Requests

What specific topics and techniques would you like to learn about at the CS academy, and why?

Sample Responses

How to get started

- ▶ "I would like to talk about what to teach in a beginning computer science course."
- ▶ "More specific curriculum and lesson plan ideas for the new AP CS course."
- ▶ "I would also like help with the best approach for starting a course from scratch."

Games and graphics

- ▶ "Additional JAVA tools and programming included with Game Technology."
- ▶ "I would like to learn about the new graphics in Java in order to make student projects pop."

Sample Responses (cont.)

Robotics and labs

- ▶ "I would also like to learn more about robotics and the programming used with them."
- ▶ "I would like to model more of my grading and lab practices on what the students will see at the University level."

Recruitment

- ▶ "I would like more recruitment ideas and how to actively engage minority and female students."
- ▶ "Ideas on how to recruit more students to the field of computer science because I believe that as many students as possible should be exposed to this field."

Not a member? Join TODAY!

http://csta.acm.org/

The Textbook

Write your name in it!

Special thanks to Pearson

- ▶ Hot off the press (04/01/2014)
- ▶ They will follow up... :)

See PPT slides on USB drive

The Schedule

Concurrent sessions

- ▶ Beginner and Advanced options (see table of contents)
- ▶ Data Storage, Algorithm Design, Programming Languages

Graduate sessions

- ▶ Everyone's invited and encouraged to attend
- ▶ Deadline to enroll for credit: 6:15 PM today

CTA Picnic: bring the whole family!

- ▶ They can also come hiking tomorrow