SHAPES, SHAPES, AND MORE SHAPES

Jasamine Jackson
CRA-W DMP Summer 2008
Mentor: Dr. Tiffany Barnes
Grad Mentor: Evie Powell
This Week’s Schedule

- LIT Review:
  - Increasing Diversity in K-12 Computer Science: Strategies from the Field

- Fourth Assignment: Shapes Applet

- Trip to Raleigh: CSDT tutorial

- Dance Tool Project
LIT Review

Purpose: Lack of diversity in the field of computer science
- K-12
- College
- Professional Careers

Solution: Key requirements for computer science courses (K-12)
LIT Review

Evaluation:

- Multiple Perspectives
  - Computer Science Teacher in high school
  - Social Science Researcher: *Out of the Loop*
  - Director of several outreach programs
LIT Review

Evaluation

- Recruitment
- Culturally Relevant Curriculum
- Powerful Pedagogy
  - Content-Area Knowledge
  - Pedagogical Content Knowledge
  - Cultural Diversity Content Knowledge
- Role Models
- Clear Pathways
LIT Review

Future Work

- Ensuring CS Course Availability
- Student Outreach Programs
- Teacher Professional Development
LIT Review

Contributions

- Addressing diversity issue

- Giving Ideas of how to solve the problems
Shapes Applet

Problems:

- Sphere Rotation and Scale
Dance Tool Project

- Documentation
Next Week...

- Integration of Shapes
- Dance Tool
References

Goode, Joanna. (2008) Increasing Diversity in K-12 Computer Science:

Java OpenGL Demos with LWJGL.

OpenGL @ Lighthouse 3D.
Any Questions?

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Trip to Raleigh: CSDT tutorial

- Task: Assist students using the CSDT
  [http://www.rpi.edu/~eglash/csdt.html](http://www.rpi.edu/~eglash/csdt.html)

- Overall Summary
  - Students loved learning how to use the CSDTs
  - I’ve learned more about CSDTs
  - It was a great experience