The Important Stuff

- MWF 1:30-2:20 in Alden 101
- Lab T 2:30-4:20 in Alden 101
- Prerequisites: One math course and one programming course (or permission)
- Required textbooks:
  - *Getting Started with Processing* by Casey Reas & Ben Fry, 1st edition
- Office: Alden 104
- Email: jwenskovitch@allegheny.edu
Office Hours

- TBD
The Moderately Important Stuff

• Grading!
  – Exams 1-2 (15% each)
  – Final Exam (20%)
  – Projects and Labs (30% total)
  – Final Project (10%)
  – Attendance & Participation (10%)
Some Other Degree of Importance

• Weekly labs
  – Dedicated time to work on the labs each week
  – Due prior to the next lab session
  – Groups... we’ll see how that goes
  – Requirements = 80%, creativity = 20%
Late Policy

- If it’s late, you get penalized
  - 20% up to one week
  - 100% after one week

- If you can’t get to class, tell me in advance
- If you’re sick, please get me documentation
- Don’t schedule vacations during exams!
What will I learn?

1. Understand the fundamental ideas underlying the field of computer graphics, including the mathematics behind manipulating objects, processing images, and animations.

2. Learn how the human visual system interprets images and colors, and understand how images and interfaces are designed to support color blindness, perception, and preattentiveness.

3. Explore the field of visualization, determining how best to turn data into information.
Class Structure

• **Week 1** = Demo Intro to Visual Computing
• **Weeks 2-5** = Visual Programming & Math
• **Weeks 6-8** = Colors and Human Vision
• **Weeks 10-11** = Images and Interfaces
• **Weeks 12-15** = Visualization and Graphics
Important Dates

• EXAM 1 WILL BE ON September 29
• EXAM 2 WILL BE ON November 3 (or October 20?)
• FINAL EXAM WILL BE ON DECEMBER 11, 7:00 PM
Department of Computer Science
Honor Code Policy

“It is recognized that an important part of the learning process in any course, and particularly in computer science, derives from thoughtful discussions with teachers, student assistants, and fellow students. Such dialogue is encouraged. However, it is necessary to distinguish carefully between the student who discusses the principles underlying a problem with others, and the student who produces assignments that are identical to, or merely variations on, someone else’s work. It will therefore be understood that all assignments submitted to faculty of the Department of Computer Science are to be the original work of the student submitting the assignment, and should be signed in accordance with the provisions of the Honor Code. Appropriate action will be taken when assignments give evidence that they were derived from the work of others.”
Any Questions?
The Advancement of Graphics
The Advancement of Graphics
Mathematically Building Models
Depicting Information

Fig. 2. –Diagram showing Development in Size of White Star Liners.
Depicting Information
Uncovering Patterns

How scary was the stock market drop?

*Dow Jones Industrial Average % change*

**LARGEST ONE-DAY LOSSES (SINCE 1987)**

SOURCE: WSJ Historical Index Data, Google Finance
Uncovering Patterns
Any Questions?