CSC 511 - Visualization
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Office hours: Official hours TBA. Also, feel free to make an appointment by email or drop by my office on a teaching day (MWTh).

Textbooks
Information Visualization: Perception for Design (by Colin Ware)
Envisioning Information (by Edward Tufte)

Objectives
By the end of this course, students will be able to...
  • Design visualization techniques to support human activities, using a user-centered process.
  • Describe visualization design guidelines, and explain the guidelines in terms of human perception and cognition.
  • Critically evaluate visualization techniques, tools, and research papers.
  • Describe major sub-disciplines within the field of visualization.

Class Structure
This is a seminar and project course. There will be several types of classes during the term: presentations / discussion led by the instructor, presentations / discussion led by students, and project review meetings. Student participation is expected in all types of classes, although you are only expected to attend project meeting classes when your project is being discussed.

Projects will be done as individuals or teams of 2. Normally the project will involve programming a visualization prototype to solve some problem you identify, though alternative project proposals will be considered.

Grading
There are NO EXAMS.
Final project presentations will take place during the final exam time slot.

Project 60%
Assignment 1 5%
Presentation 20%
Participation 15%

Project Grading
Proposal presentation 5%
Written Proposal 15%
Final Report 25%
Final Presentation 5%
Content 50%

Participation
You are expected to:
  • Complete any assigned readings, and email me one question or comment about each reading prior to class. It may be helpful to print your comments/questions and bring them to class. (50%)
  • Participate in class discussions (25%)
  • Provide feedback to other students on their projects (25%)