CS 225

Data Structures

Introduction

Wade Fagen-Ulmschneider – CS PhD

Academic Interests: data discovery/visualization, systems programming, education worth sharing, and magic fairy dust

Eric Shaffer – CS PhD

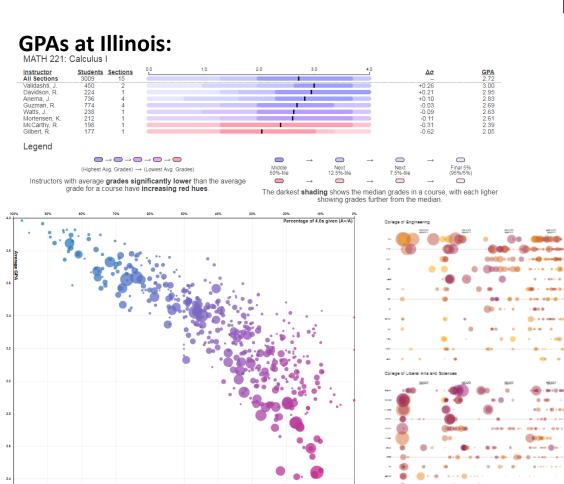
Academic Interests: computer graphics, scientific visualization, and scientific computation

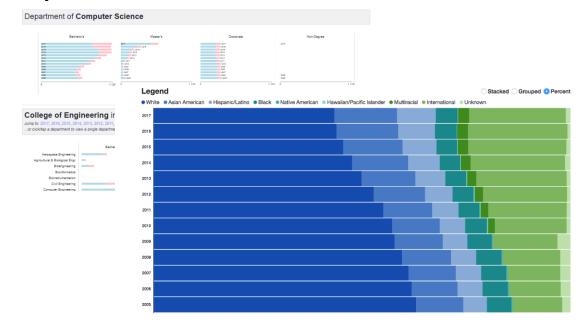
Course Staff:

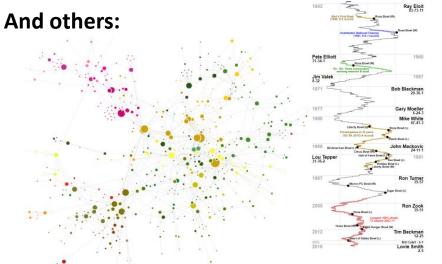
You:

My Passion: Data Discovery

Diversity at Illinois:



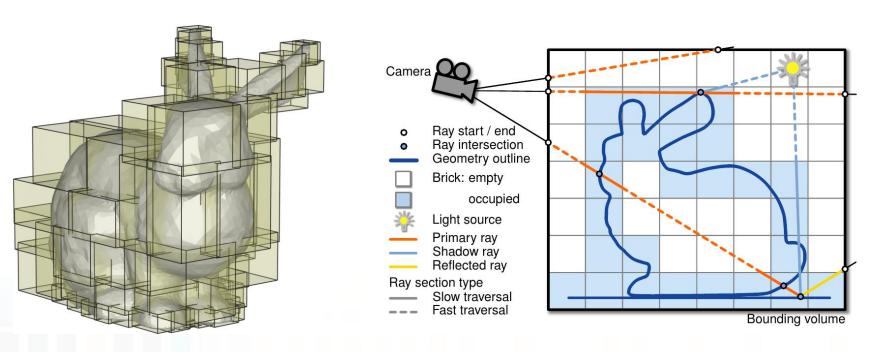




Eric Shaffer

Geometric Data Structures for Computer Graphics

CS 296: Honors Section for CS 225





Three programming assignments

Implement a simple ray tracer

Accelerate the ray tracer using two different data structures

Everything about CS 225

https://courses.engr.illinois.edu/cs225/

Information on:

Staff

Communications

Lab Sections

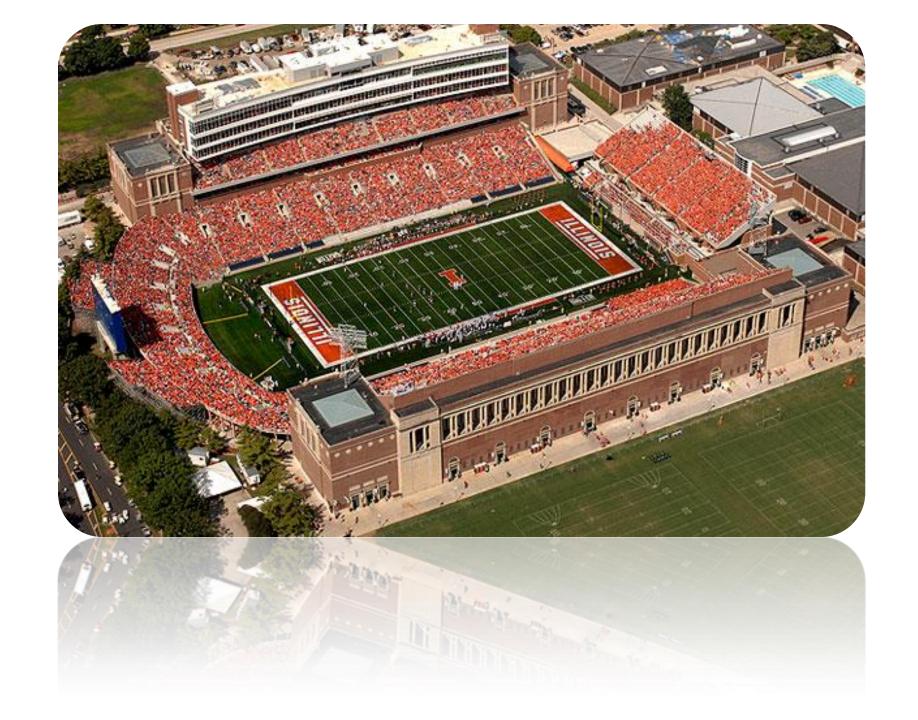
MPs

Exams

Grading

Academic Integrity

What is this course about?



ECE 220

CS 126

CS 125

CS 225

CS 173

MATH 213

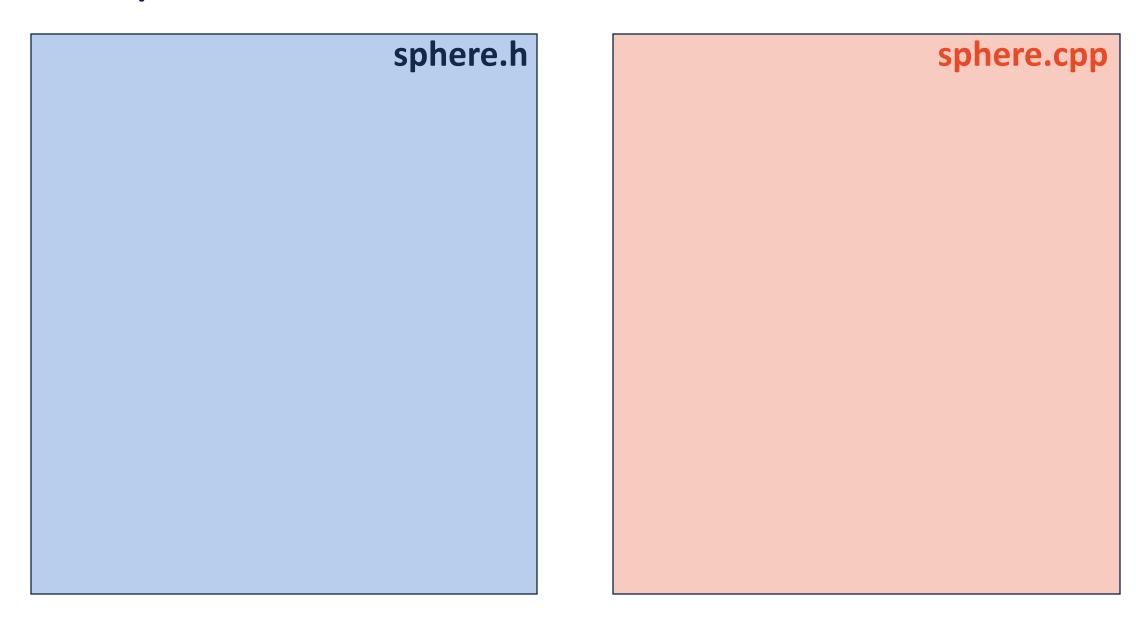
Variables in C++

```
int myFavoriteInt;
char grade = 'A';
double gamma = 0.653;
```

```
Cat fiona, mia;
Cube rubix;
Person wade;
```

Encapsulation

Encapsulation



```
sphere.h
   #ifndef SPHERE_H
   #define SPHERE H
 3
   class Sphere {
     public:
 5
 6
 8
10
11
12
     private:
13
14
15 };
16
17
   #endif
18
19
20
```

sphere.cpp

```
#include "sphere.h"
   double Sphere::getRadius() {
 4
 5
 6
 8
 9
10
11
12
13
14
15
16
17
18
19
20
```

```
sphere.h

4 class Sphere {
   public:
   double getRadius();
```