CS 225

Data Structures

January 14– Introduction

Wade Fagen-Ulmschneider, Craig Zilles

Introduction

Wade Fagen-Ulmschneider – CS PhD

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

Craig Zilles – CS PhD (M.S. ECE, B.S./M.S. Mech E.)

Academic Interests: computer-assisted education, learning analytics, and computer architecture

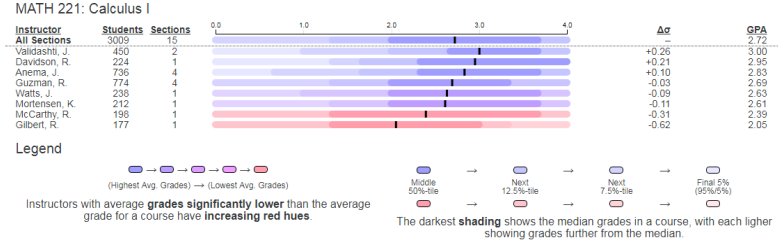
Course Staff:

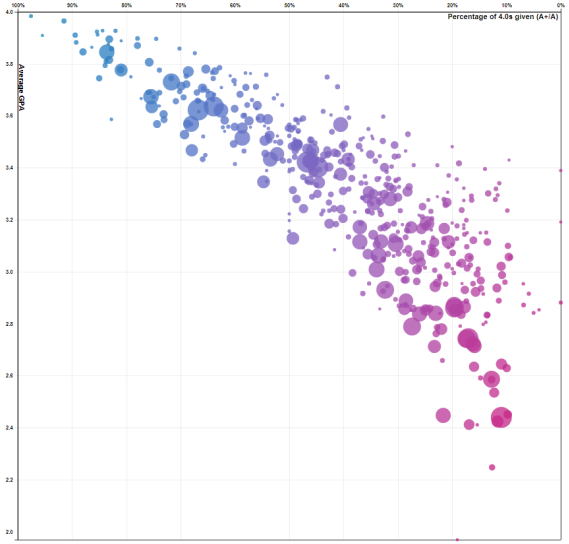
You:

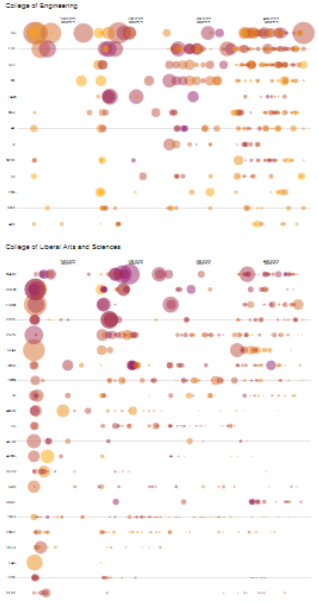
Wade's Passion: Data Discovery

[Wade Fagen-Ulmschneider](http://waf.cs.illinois.edu/discovery/)
http://waf.cs.illinois.edu/discovery/

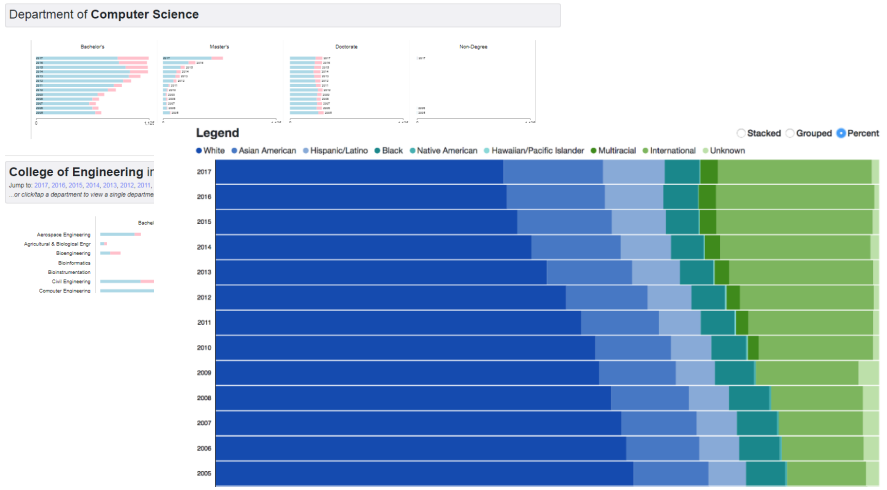
GPAs at Illinois:



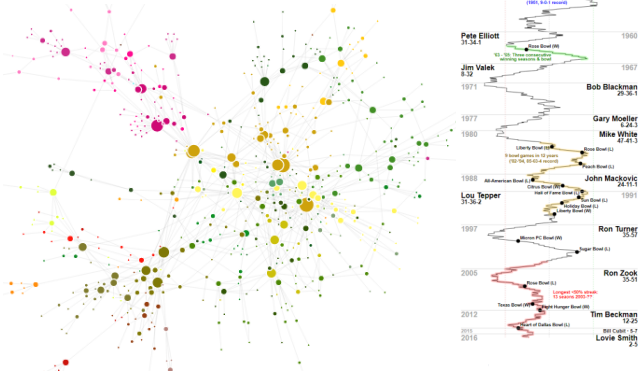


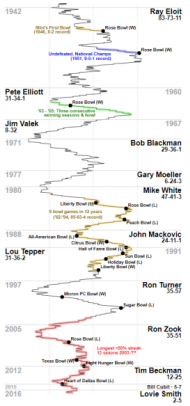


Diversity at Illinois:



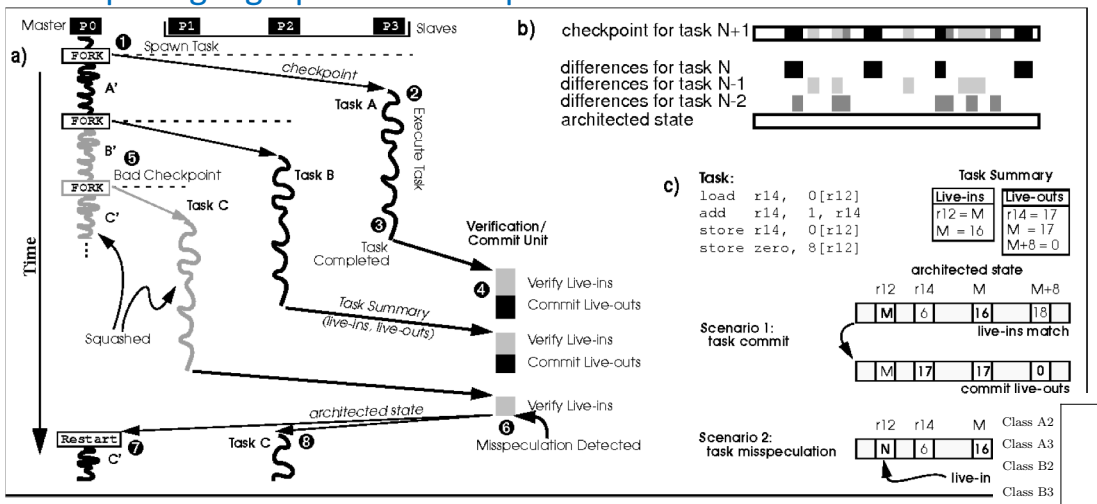
And others:

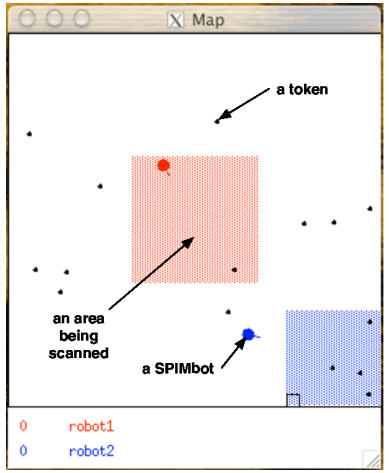




Craig thinks Wade has better pictures, but…

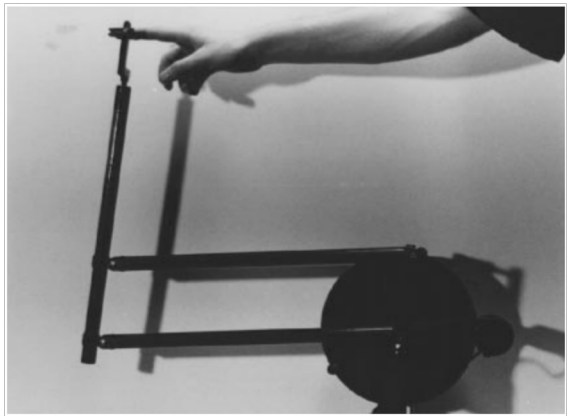
Proposing high-performance processor micro-architectures

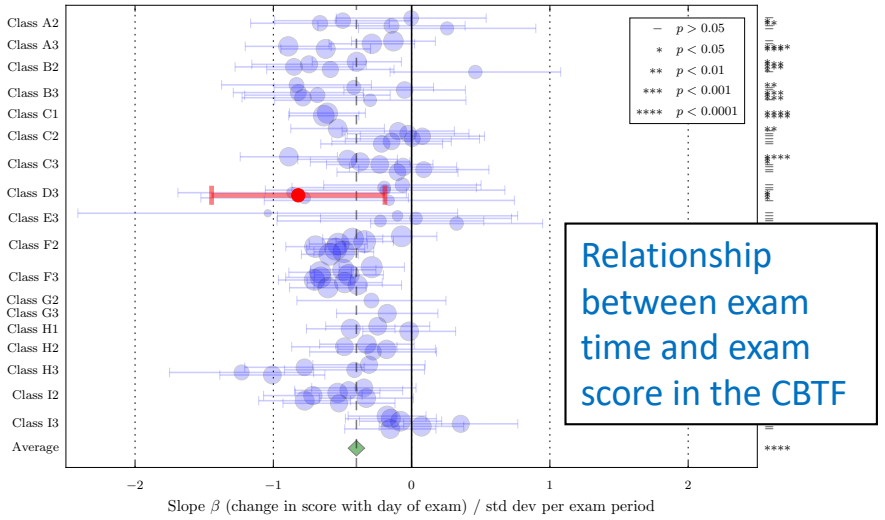




SPIMbot contest in CS 233

Design and algorithms for force-feedback human-computer interfaces





Relationship between exam time and exam score in the CBTF

Course Staff

You

Everything about CS 225

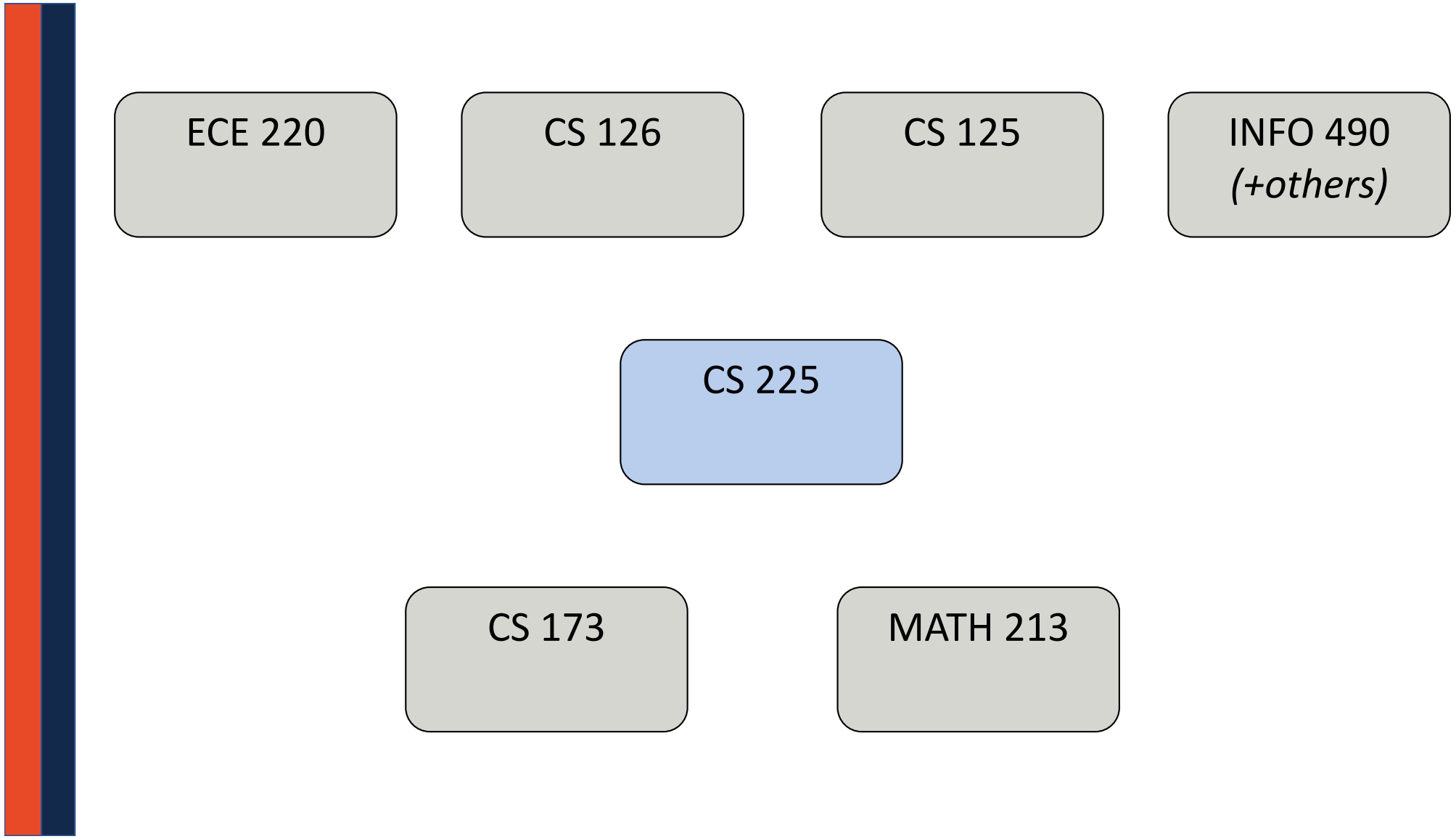
https://courses.engr.illinois.edu/cs225/

Information on:

- Staff
- Communications
- Lab Sections
- MPs
- Exams
- Grading
- Academic Integrity

What is this course about?

ILLINOIS
ILLINOIS


ECE 220
CS 126
CS 125
INFO 490
(+others)
CS 225
CS 173
MATH 213

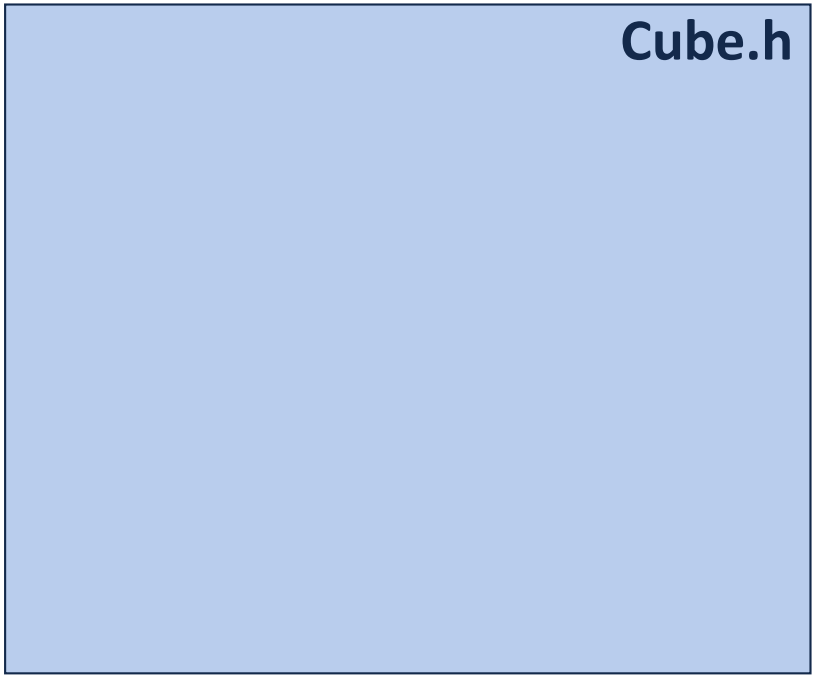
Variables in C++

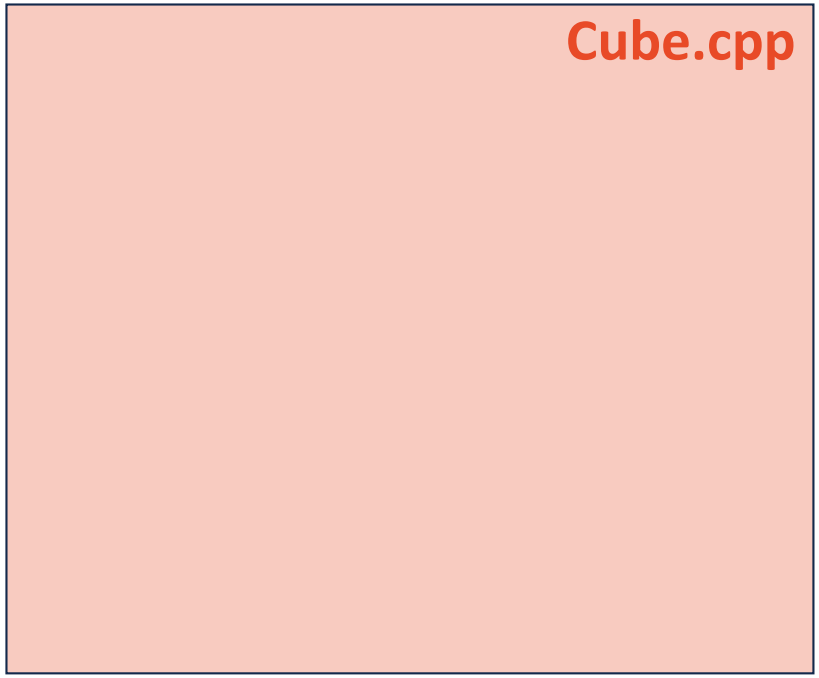
```
int myFavoriteInt;

char grade = 'A';

double gamma = 0.653;
```

```
Cat fiona, mia;

Cube rubix;

Person wade;
```

Encapsulation

Encapsulation





Cube.h

```
1  #pragma once
2
3  class Cube {
4    public:
5
6
7
8
9
10
11   private:
12
13
14 };
15
16
17
18
19
20
```

Cube.cpp

```
1  #include "Cube.h"
2
3  double Cube::getVolume() {
4
5
6  }
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

Cube.h

```
4  class Cube {
5    public:
6      double getVolume();
```