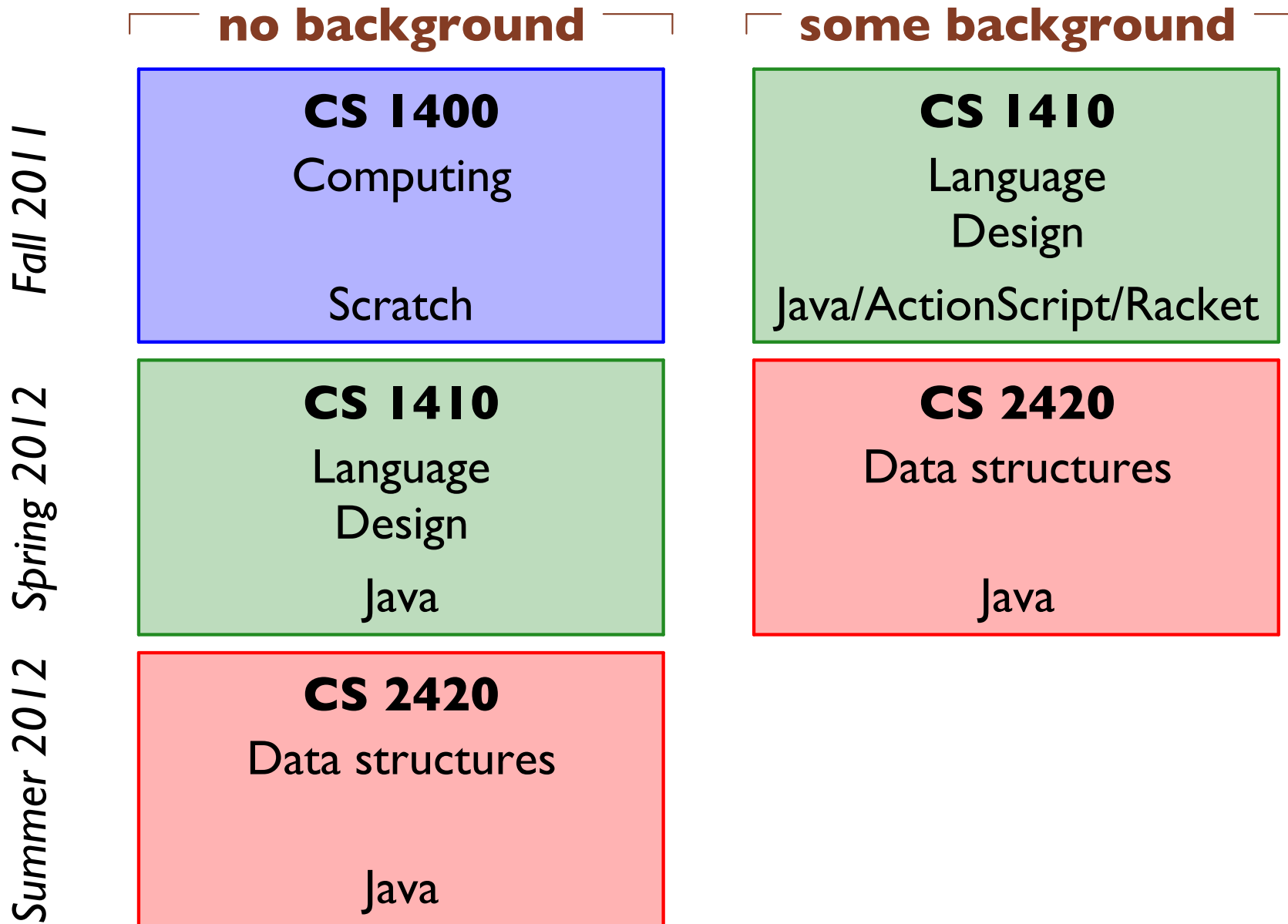


CS 1410-20 — Object-Oriented Programming
Computer Science I for Hackers

Fall 2011

Instructor: **Matthew Flatt**

Intro Computer Science Tracks



CS 1410 & CS 2420 Tracks

some background

EAE

Systems

Hardware

Fall 2011

CS 1410-01

Language
Design


Java

CS 1410-10

Language
Design

ActionScript

CS 1410-20

Design 
Language

Racket
Java

CS 1410-30

Language
Design

Arduino

Spring 2012

CS 2420-01

Data structs

Java

CS 2420-10

Data structs

Java

CS 2420-20

Machine model
Data structs

C
Racket
Java

CS 2420-01

Data structs

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CS 1410 & CS 2420 Tracks

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CS 2420-01

Data structs

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CS 2420-20

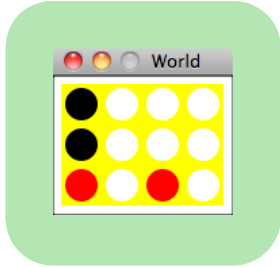
Machine model
Data structs

C
Racket
Java

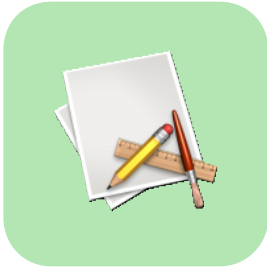
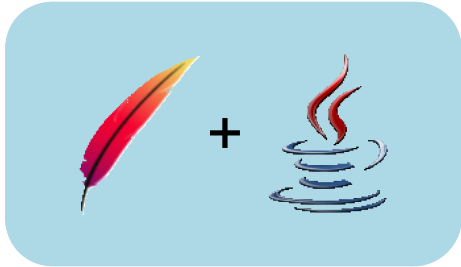
CS 2420-01

Data structs

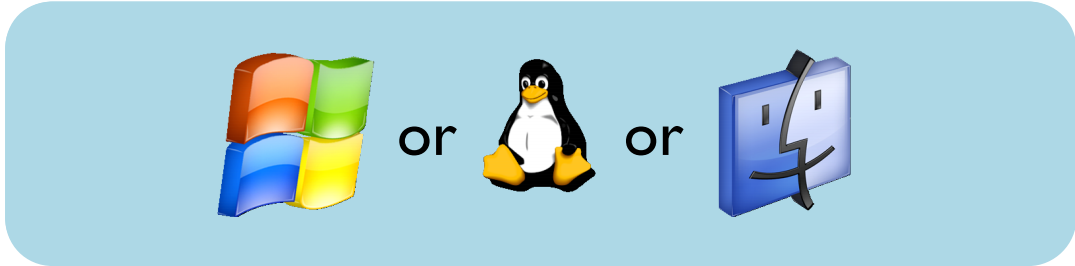
Java



Applications



Systems language, networking, OS



Hardware

Systems Track

CS 1410-20 — How to design programs



Racket
(Scheme)



Java

CS 2420-20 — Building on machines



Racket



Java

Course Details

Everything is on the course web page:

<http://www.eng.utah.edu/~cs1410-20/>

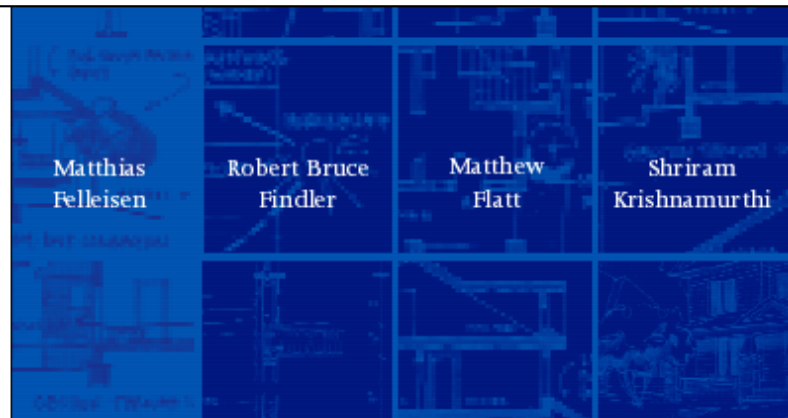
Weekly assignments	45%
Grading scale: $\checkmark+$, \checkmark , $\checkmark-$, 0	
Weekly labs	3%
Two midterm exams	15% each
Final exam	22%

Textbook



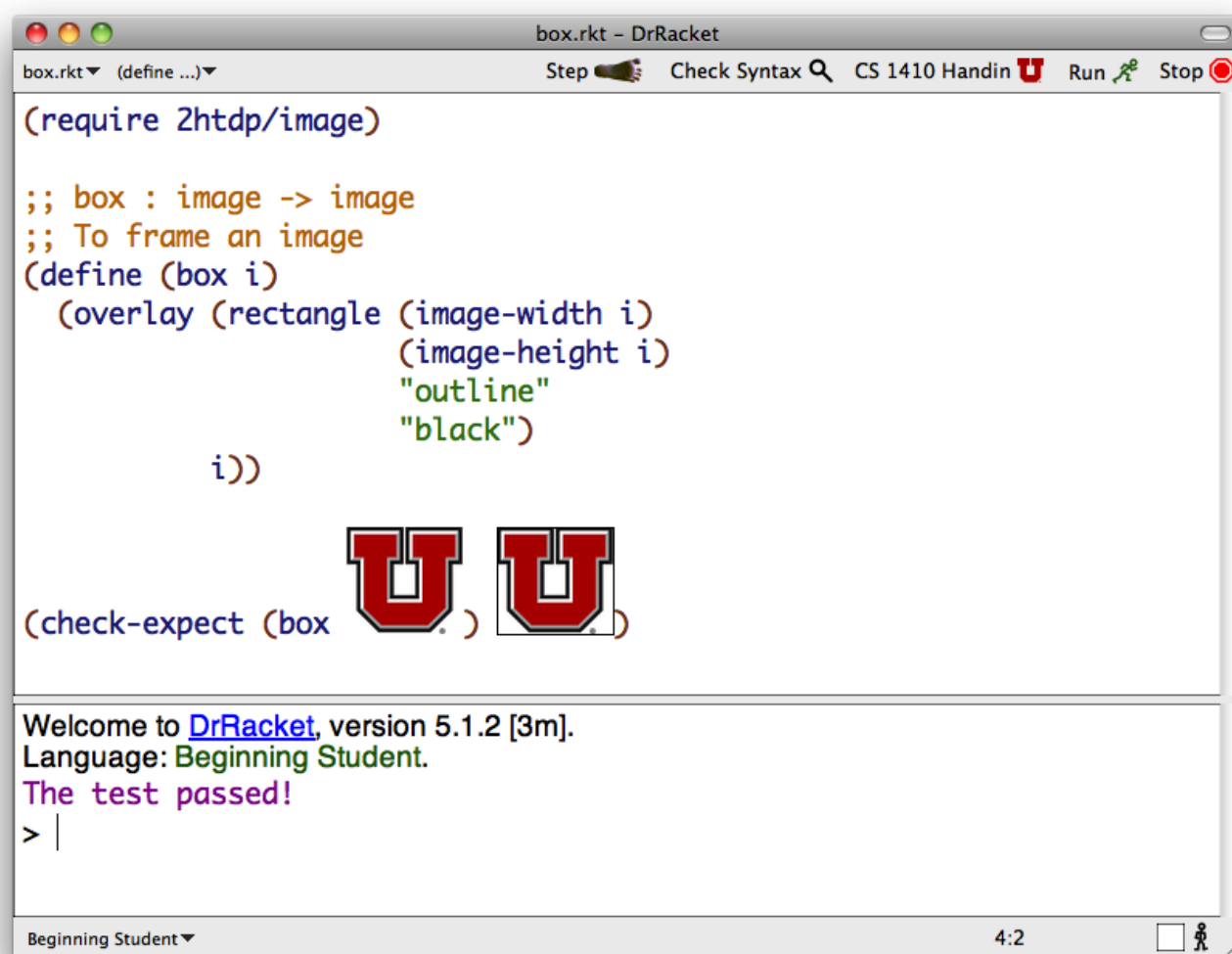
We'll start with the **second edition**:

<http://www.ccs.neu.edu/home/matthias/HtDP2e/index.html>



<http://htdp.org>



DrRacket



```
box.rkt (define ...)
Step Check Syntax CS 1410 Handin U Run Stop

(require 2htdp/image)

;; box : image -> image
;; To frame an image
(define (box i)
  (overlay (rectangle (image-width i)
                     (image-height i)
                     "outline"
                     "black")
           i))

(check-expect (box  )
```

Welcome to [DrRacket](http://racket-lang.org/), version 5.1.2 [3m].
Language: **Beginning Student**.
The test passed!
> |

Beginning Student 4:2

<http://racket-lang.org/>

Things You Need to Do

- Read the course syllabus
- Subscribe to `cs1410-20@list.eng.utah.edu`
 - See the course web page for instructions
- Go to lab on Thursday (9:40am, MEB 3225)
- Complete HW 0
 - To be added to the schedule page Wednesday
 - Maybe mostly in lab