CS 5510
Programming Languages

Fall 2017

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Course Details

http://www.eng.utah.edu/~cs5510/
Lectures are Online

After today, all slide presentations are online

• Watch the videos before class

• Class is for more examples and homework solutions
  ○ a.k.a. “recitation”
  ○ guideline: no new material introduced in class
Programming Language Concepts

This course teaches concepts in two ways:

By implementing **interpreters**

- new concept $\Rightarrow$ new interpreter

By using **Racket** and variants

- we don’t assume that you already know Racket
Interpreters

An **interpreter** takes a program and produces a result

- DrRacket
- x86 processor
- desktop calculator
- **bash**
- Algebra student

A **compiler** takes a program and produces another program

In the terminology of programming languages, someone who translates Chinese to English is a **compiler**, not an **interpreter**.
Racket and plai-typed

Lisp  ➔  Scheme  ➔  Racket

Racket is

• a programming language
• a family of programming languages
• a language for creating programming languages

... including plai-typed

Racket  ➔  plai-typed  ↔  ML

PLAI = Programming Languages: Application and Interpretation, the textbook
plai-typed

See quick-ref.rkt
Homework 0

• Create handin account

• Racket/plai-typed warm-up exercises

Due Friday, August 25