CS 5510
Programming Languages

Fall 2013

Instructor: Matthew Flatt
Course Details

http://www.eng.utah.edu/~cs5510/
Programming Language Concepts

This course teaches concepts in two ways:

By implementing **interpreters**
  - new concept ⇒ 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 30