Lecture 0: Course Intro

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CS 334 Automata and Computation
Fall 2015

Syllabus

Textbooks: 'Sipser': "Introduction to the Theory of Computation"

Scheme/DrRacket and whatever you prefer Later we'll use an

online Turing Machine simulator
(And you're encouraged to create your own!)

Canvas for homework assignments & submissions

Homework 0 is due Sunday night!

Let's begin!

Automata

"Automata" is the plural of *automaton*.

From Latin (via the Greek) for "Acting of itself"

"Auto" := 'self' and "mat":= 'acting'

Think: "Automatic", something that happens *by itself*.

Review of some CS135 Stuff

We'll start Wednesday with a brief review of some stuff we did in CS135 last semester:

Sets
Sequences and Tuples
Functions and Relations
Graphs (maybe a little extra time here?)
Strings and Languages (maybe this is new?)
Boolean Logic
Terminology and Nomenclature

On Friday we'll do some more induction, some more proof by contradiction, and we'll introduce the important Pigeonhole Principle.