Homework set 20: a programming languages textbook — due Monday 30 April

Total number of points available on this homework is 200. Full credit is equivalent to 100 points. (But see below.)

The goal of this homework assignment is to begin to evaluate a textbook for possible adoption in CS451 and/or CS552. You will read the appendix to John Reynolds' book *Theories of Programming Languages*. The appendix summarizes the mathematical background needed to master the material in the text.

1. (40 pts. – required!) Read the appendix very carefully. Take your time: there are only 17 pages, but the material is very dense.

   On the pages themselves, mark in colored ink the concepts you have not encountered previously. For concepts you have encountered previously in your math or computer science classes, or in your individual studies, indicate where you saw them first.

   Comment on the degree of difficulty and the degree of interest you had in reading this material.

2. (20 pts. – required!) Our library recently acquired two copies of this textbook and they are on reserve. Go to the library, and borrow the book there, but do not check it out (so others can do their homework too). Examine the main body of the text and comment on it.

3. (140 pts. – but only if you do the first two parts!) Solve problems A.1 through A.7 from Reynolds. (20 pts. each)