

## Lecture Number.1 First Section

A guide to LaTeX can be found at

<http://ctan.tug.org/tex-archive/info/lshort/english/lshort.pdf>

The text of the notes goes here. To include a theorem with proof, use the following format.

**Theorem Lecture Number.1.1** *This is a theorem statement.*

**Proof:** This is a proof of Theorem Lecture Number.1.1. We want to say that if  $\mathcal{E}$  is some event and  $X$  is the indicator of that event, then

$$\mathbf{E}[X] = \mathbf{Pr}[\mathcal{E}] \qquad \text{(Lecture Number.1.1)}$$

But (Lecture Number.1.1) was quite trite. ■

Here's a reference to Figure Lecture Number.1, of a Venn diagram. This figure was made with inkscape, which is a pretty good drawing program with latex support.

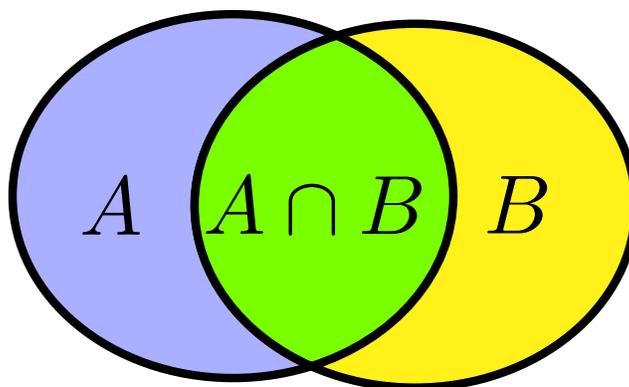


Figure Lecture Number.1.1: A figure.

Please use CLR style files for psuedocode, available at

<http://www.cs.dartmouth.edu/~thc/clrscde/>