

Assignment #9

Due: Thursday, January 20, 2011

Reproduce the document contained on pages 2–4 of this file. I want your name where [Your name] is, but everything else should be identical. I want you to use BibTeX to make the bibliography. Make a `.pdf` file and send the `.tex`, `.bib` and `.pdf` files to me through the Drop Box.

I will be looking at your `.tex` file carefully to make sure that you are generating **all** numbers and links with the appropriate cross-referencing commands.

Learning hyperref

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1 Introduction

I think the `hyperref` package is amazing. It allows you to [click](#) all over a document and find your way to the interesting information!

Here are the specifics of this document that you need to know. For the `hyperref` package I used the `colorlinks` option and I made the `anchorcolor` red and the `urlcolor` blue. You should also view the File–Properties menu item in Acrobat to see the three changes I made to the document’s information. This document has 1 inch margins all around, and you should pay attention to the `pagestyle`. The font size for the title is bigger than normal, but I just centered it by hand (without the use of `maketitle`). The bibliography for this paper was assembled using BibTeX; as usual, I used the `amsplain` bibliography style. The References are located on [page 2](#). Note that I put a blank page after the References.

Sometimes a big hole in a document can look strange. It’s almost as if I didn’t have enough to say! I’ve got plenty to say, but sometimes it doesn’t all come out properly on paper. (Notice that this paragraph and the theorem that follows have been put flush against the bottom margin.) Here is a famous theorem.

Theorem 17 (The Pythagorean Theorem). *In a right triangle with sides a and b and hypotenuse c , the following relationship holds:*

$$a^2 + b^2 = c^2. \tag{1}$$

I had heard of [Theorem 17](#) as early as middle school. What about you?

2 My Favorite Class

The mathematics course called Topology was offered in Spring 2008, and the official course textbook was [\[1\]](#). However, [\[2\]](#) was available for free online, so we made use of that as well. You can [see that book here](#).

This paragraph has a space of 1 inch after it. Note what I have done with the various counters throughout this document. You should also observe that the line for the References in the table of contents does not read “References.”

You should arrive at this paragraph after clicking on the word “click” from earlier. And if you [click here](#), you should get sent back to section [1](#), not [section 2](#).

References

- [1] M.D. Crossley, *Essential Topology*, Springer, 2005.
- [2] J. McCleary, *A First Course in Topology: Continuity and Dimension*, American Mathematical Society, 2006.

