

Assignment #5

Due: Monday, January 17, 2011

Once again, you have two assignments.

1. Reproduce the document contained on pages 2–4 of this file. I want your name where [Your name here] is, and you should make up something to go in [Your title here], but everything else should be identical. You must use the techniques discussed today in class in order to reproduce this document.

Make a `.pdf` file and send *both* the `.tex` and `.pdf` files to me through the Drop Box.

2. Go to the library and find a journal article. The subject for the article doesn't matter at all. Make a photocopy of the first page (or pages) of the article containing the title, date, abstract, and first section title. Then use \LaTeX to reproduce the portion of the article up to (and including) the first section title. At the beginning of class on January 17, you need to turn in the photocopy of this article as well as a printout of your \LaTeX attempt to reproduce it.

[Your title here]

[Your name here]

January 14, 2011

Abstract

The purpose of this abstract is to briefly explain what is coming in the contents of my fabulous paper. A good abstract should be concise and still informative. Some people find that the abstract is the most difficult part of a paper to write.

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1 Introduction

In this section I will introduce you to the topic about which I am writing. That's what a good introduction is, after all.

You'll notice that this article has a 1.5-inch left margin and a .75-inch right margin. The top and bottom margins are each 1.25-inches. You might also notice that this paragraph, and this paragraph alone, is double-spaced. Aren't packages wonderful things?

2 The Heart of the Matter

2.1 More Explanation

The title page overtakes the first page and applies the `plain` style to it. However, you'll notice that the second page has a more personal style. I made it myself with the `fancyhdr` package. Let's skip to the next page.

2.2 Even More

Frankly, I don't have much to say in this subsection. It's simply here for decoration. Do you know what makes for good decoration? A matrix. Everyone loves matrices. (The fellow who wrote [1] and the woman who wrote [2] are big fans of matrices.) You'll notice that one entry in the matrix below spans two columns. If you're paying attention, this means you cannot use the `matrix` environment. Make sure that you adhere to the proper justification in each column.

$$\begin{pmatrix} 2 & a + b & 2x - y \\ 3 - g & 7 & z \\ 0 & & y^2 \end{pmatrix} \quad (1)$$

3 Wrapping Things Up

I have even less to say in this last section. I want to mention that I will manually place my "References" on a separate page. Additionally, I will manually enter a line into the table of contents for the References. What pagestyle appears on the final page? (Remember that you must "build" several times to get page numbers in the table of contents and the references to the bibliography correct.)

References

- [1] Robert Bringhurst, *The Elements of Typographic Style*. Hartley & Marks Publishers, 2004.
- [2] Ellen Swanson, *Mathematics into Type*. Updated edition. Updated by Arlene Ann O'Sean and Antoinette Tingley Schleyer. American Mathematical Society, Providence, RI, 1999.