

Assignment #13

Due: Wednesday, January 26, 2011

Your task is to reproduce the PDF document which is listed as the “Jan 25 Homework — reproduce this” document on Sakai. Insert your name for [Your name]. Everything else should be identical.

Please send me your `.tex` and `.pdf` files through the Drop Box.

What's Inside

This is the part of the document where I tell you what's coming. What's coming? A lot of sections to practice the things we've learned recently. You should be making this paragraph with the abstract environment.

1 Introduction

This document has margins of 1 inch. You'll need to use `hyperref`, but you'll need the `ps2pdf` option instead of the `pdftex` option since we're going through postscript. I forced page breaks before sections 4 and 5. After this first paragraph, I changed the space between paragraphs to be 0.05 inches and the indenting of each paragraph to be 1.5 centimeters. (You'll notice that the indenting doesn't affect the first paragraph in each section—that's the default \LaTeX behavior.)

There are a lot of drawings in this document, and it would be very tedious for me to describe every small feature of them. So, your assignment is to duplicate this document *as much as possible*. I will be understanding with small discrepancies in spacing, dimensions, and so forth.

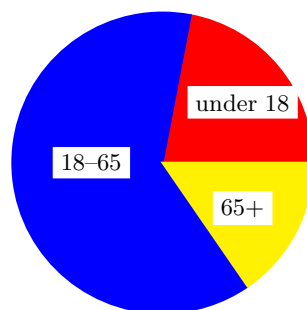
2 Gradient Fill

In this section, I will demonstrate a gradient fill box. I grabbed the colors from the home pages of the teams participating in next week's Super Bowl, the [Pittsburgh Steelers](#) and the Green Bay Packers (notice the changes there in text color). The yellow comes from the "Learn More" rectangle at the bottom right [of this page](#) and the green comes from the middle of the "G" logo on the right side [of this page](#). (The `gradangle` is 60.) You'll probably need to use the Print Screen function on your keyboard to grab both of these colors.



3 A Pie Chart

By visiting [this web site](#), I was able to find out some facts about the population of Pennsylvania. As of 2009, here is a pie chart showing the estimates. (I used the `\rput*` command to put the numbers into the pie chart.)



4 A Bar Graph

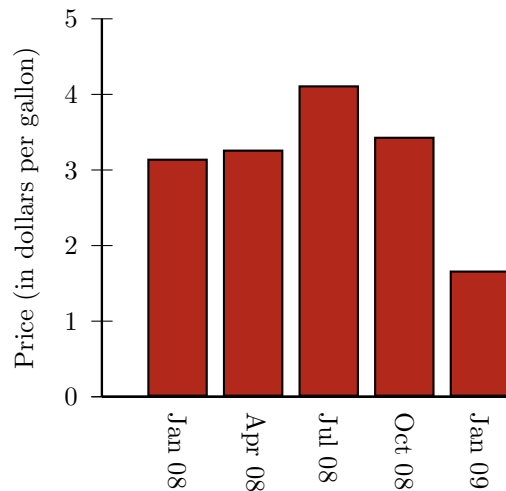
By digging into the information on [this web page](#), I was able to find some fuel information for the Central Atlantic Region of the United States. (Pennsylvania is included in this region.) The information that follows is the average gasoline price for regular gasoline on the first Monday of the indicated month.

I will first list the table and then convert it into the bar graph. (When typing this table, be sure to align the final column along the decimal point, as demonstrated in class.)

Month	Price
January 2008	3.15
April 2008	3.27
July 2008	4.12
October 2008	3.44
January 2009	1.67

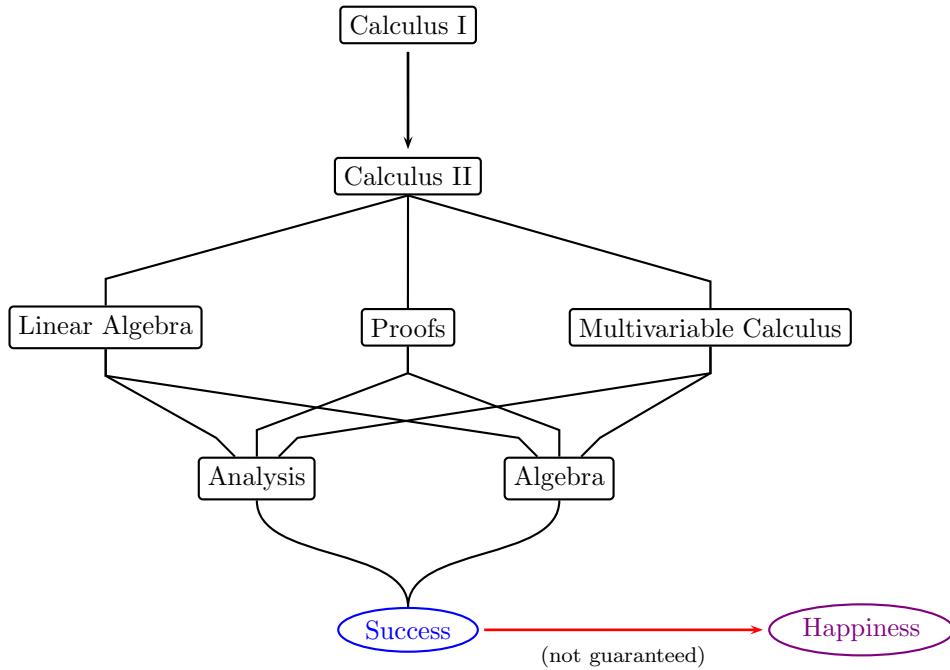
Table 1: Average price of gasoline

I used the W&J red (defined in class) to fill the bars below. (There is no shortcut that we've learned for a bar chart; you'll have to do it "by hand," but make sure it accurately reflects the table above!)



5 Nodes and Connections

What follows is the sequence of Mathematics courses at Nowhere College. You should type all of this using nodes and connections. I drew the final oval using the purple I defined in class on Monday, January 25 (Lecture #12).



6 A Final Graph

Finally, we'll produce three graphs on the same axes.

