

# Homework 3: Practicing with L<sup>A</sup>T<sub>E</sub>X

Michelle Myers

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## 1 Working with Bullets

### 1.1 Plain Bullets

A list of things of what I enjoyed about class this semester.

- The homework and tutorials were conducive to learning the language
- While maintaining their utility, the work assigned didn't intrude on my workload for other courses
- Lab sessions were good places for demonstrations

### 1.2 Numbering

A list of what I disliked about class this semester in order of rancor, with 1 being the worst.

1. A lot of the content delivery was silly to the extent that it was too easy to stop taking the meetings seriously
2. The online textbook was not maintained and updated throughout the progression of the course as was announced by the syllabus
3. The random inclusion of gitHub partway through was off-putting. I feel like we spent way too much time going through it

## 2 Working with Equations

### 2.1 The Euler-Lagrange Equation

This is the Euler-Lagrange equation:

$$\sum_{j=0}^n (-1)^j \partial_{\mu_1 \dots \mu_j}^j \left( \frac{\partial \mathcal{L}}{\partial f_{i, \mu_1 \dots \mu_j}} \right) = 0$$

where  $\mu_1 \dots \mu_j$  implies the sum over indices that span the number of variables.

## 3 Working with Tables

Favorite Foods	Favorite Bands	Favorite IDL Commands
Rib-Eye Steaks	Muse	oplot
Vinaigrette Salads	Abd al Malik	return
Spinach	Elton John	print

Table 1: Steak and Salad are the bomb, with Spinach somewhere in the mix in honor of the great legend Popeye.

## 4 Working with a Figure

I will demonstrate to you an image. Prepare to be amazed...

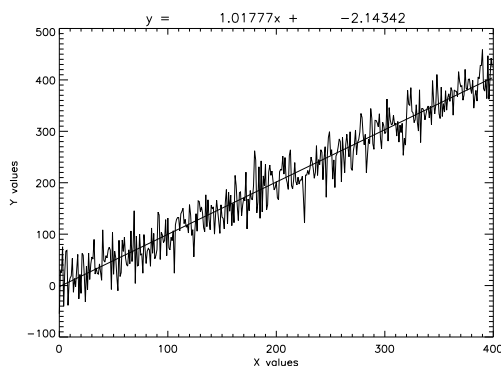


Figure 1: A linear fit of a data file. Be amazed.

## 5 Working with Multiple Figures

I'm hungry, 'nuff said.



(a) One half of a well-balanced meal



(b) The other half of a well-balanced meal

Figure 2: The best things in life