Errata

Dimension

In the video lecture *Dimension: Dual representation of vector spaces*, I give a definition for the *dual* of a vector space. I should have called that the *annihilator* of a vector space; the dual of a vector space is something different.

In the Perspective Lab,
- In Section 2, I say that c_3 goes to the top-right corner of the whiteboard but I mean the top-left corner.
- In the top-view diagram in Section 4, I use b_1 and b_3 but I mean c_1 and c_3.
- In Section 5, we write $H = A^{-1}C$ instead of $H = C^{-1}A$.

The Matrix: What is a Matrix?

In the video lecture, the solution to the *transpose* quiz has `.F` where it should have `.f`

The Vector Space: Linear Combinations

In the video lecture, the solution to the *Lights Out* problem should be $\alpha_1 = 0, \alpha_2 = 1, \alpha_3 = 0, \alpha_4 = 1$.

Politics

Versions of politics_lab.zip downloaded before July 9 at 11:40pm EDT have an erroneous newline in the `create_voting_dict()['Clinton']` example. To make this doctest pass, please remove the newline in the array, or just download the latest ZIP file if you haven't started the lab yet.

Vec class

For a few hours after release on Monday, July 8, there was a bug in our grader for the equality test on Vecs. It's fixed now.

Python Lab

Tasks in Python Lab that require you to write a comprehension won't work if the comprehension is split over multiple lines. Our apologies for that! Please put each comprehension on a single line of the stencil file.

HW0, preliminary version

Some students who went to the course web site before the official launch downloaded a version of hw0.zip that was preliminary. You would probably notice this: the stencil file hw0.py has fifteen problems instead of ten. If this happened to you, my apologies! Please rename your current hw0.py, download the official version of hw0.zip, and move or copy the files it contains into your matrix folder. Then copy your answers from the old, renamed hw0.py file into the new one, and submit your solutions in the usual way.

The Function

On a slide titled 'The function', the example at the bottom of the slide might be misleading. I should have included more tuples such as ((1,1,),1), ((1,2,)1),((2,1),2), and ((3,1),3). I just listed some examples of tuples in this infinite set (using "..." to indicate there were more) but this might have confused some people.

In slides titled 'The function' and 'The function: Composition', the diagrams showing the Caesar cypher mistakenly showed Z mapping to B. the letter Z should map to C, as indicated by the text on the slide 'The function'.

In a slide titled 'Set terminology and notation: Cartesian product', there was a spurious (3, clubs) in the set.

Course Map

```
If MA=B where M is invertible
then Row A = Col A
```

should be replaced with

```
If MA=B where M is invertible
then Row A = Row B
```

We've updated the map on the course web site.

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