Python 3 Notes Addendum

- Documentation on using the PDB tool for Python Debugging
- Defining private and protected variables in Python is covered very well in this article.
- Guide to Pythons magic methods.
- Encodings:
  This link is a fairly humorous attempt at explaining the history of representing text in computers up to and including Unicode and UTF-8. http://www.joelonsoftware.com/articles/Unicode.html. Unicode and UTF-8 explained relatively simply. A more formal and complete explanation can be found at http://utf8everywhere.org/. This is a link to a table that describes all the Unicode characters in use today: http://www.tamasoft.co.jp/en/general-info/unicode.html. For using various encodings in Python2 - http://www.pythoncentral.io/python-unicode-encode-decode-strings-python-2x/ and in python 3 - http://www.pythoncentral.io/encoding-and-decoding-strings-in-python-3-x/
- Learning list comprehensions:
  http://www.pythonforbeginners.com/lists/list-comprehensions-in-python/
- Duck typing - http://infohost.nmt.edu/tcc/help/pubs/python/web/interface.html
  This site uses Python 2 as an example, but that does not detract from the explanation which is a good one.
- OO tutorial - http://www.python-course.eu/python3_object_oriented_programming.php
- Advanced class definitions :
  http://www.linuxtopia.org/online_books/programming_books/python_programming/python_ch22.html
- Method resolution order for subclasses can become very complex. There are two reasonably good sites that deal with this subject. The first found here deals only with Python version 3 while the second one found here deals with both version 2 and 3. I have used code from both of these sites in my demonstration programs.
- The site python-course.eu, which is recommended in Python Notes, has a good explanation of the various alternatives for defining and raising an exception. Also, you should review the summary of built-in exceptions in the Python documentation.
- This tutorial covers, in some detail, the time, datetime and calendar modules. We covered mostly the time module in class. Even then, we covered only pertinent portions of this module. The entire topic becomes extremely involved.
- Formatting of dates and times is handled separately in Python through the strftime and strptime methods in the datetime and time modules. A formal explanation of these methods can be found in the Python documentation with simpler explanations available at sites such as Tutorials Point.
- Article about the uses of the else clause in Python loops. The examples are obviously Python 2.x, but they show the value of the option regardless.
- This article about sorting contains much more detail than we covered in class.
- Real Python is a good general site for intermediate Python programmers. He will try to sell you things, and some of them are worth buying. Regardless, his free tutorials are very good.
- Python Conquers the Universe has some very interesting blog posts.

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- How Public/Private/Protected is implemented in Python. It is very different from Java and C++.