Lesson 04 – Discussion

**Python Lists**

The list is a most versatile datatype available in Python which can be written as a list of comma-separated values (items) between square brackets. Important thing about a list is that items in a list need not be of the same type.

<http://www.tutorialspoint.com/python/python_lists.htm>

Please discuss with your classmates what types of applications that you would use lists for.

Lists are great to use when you want to store data of different types and if you may also want to resize the structure. Lists have a multitude of built in functions that can make these structures very useful and efficient. Good uses for Python lists would be storing or manipulating mass amounts of data. Data manipulation can be done at a rather impressive speed by looping through these lists. You could also then use a list to retrieve data in a similar manner.

Sequence: the most basic data structure in Python

List: (like an array) most versatile datatype available in Python which can be written as a list of comma-separated values between square brackets

* Holds heterogeneous structures (different types)
* Can be resized
* Use a lot more space than arrays