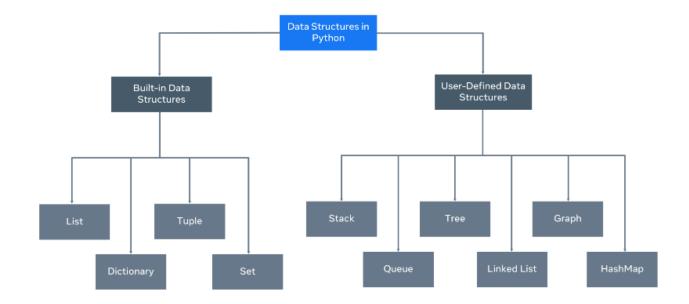
So far, you have only stored small bits of data in a variable. This was either an integer, Boolean or a string.

But what happens if you need to work with more complex information, such as a collection of data like a list of people or a list of companies? Data structures are designed for this very purpose.



A data structure allows you to organize and arrange your data to perform operations on them. Python has the following built-in data structures: **List**, **dictionary**, **tuple** and **set**. These are all considered **non-primitive** data structures, meaning they are classed as objects, we will explore this more.

Along with the built-in data structures, Python allows users to create their own. Data structures such as Stacks, Queues and Trees can all be created by the user.

Each data structure can be designed to solve a particular problem or optimize a current solution to make it much more performant.

Mutability and Immutability

Data Structures can be mutable or immutable.

Mutability refers to data inside the data structure that can be modified. For example, you can either change, update, or delete the data when needed. A list is an example of a mutable data structure.

An **immutable** data structure will not allow modification once the data has been set. The tuple is an example of an immutable data structure.