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Python supports class definitions, single and multiple inheritance, abstract classes, and custom functionality. Joe compares and contrasts these with C# functionality. Joe shows you how to build and work with Python arrays of various data types, how to declare and use dictionaries in Python, and how to use iterators in Python.

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In this case, the software used to make the comparisons is written in pure Python because it comes with standard libraries useful in collecting, parsing, and storing data from online sources. In addition, Python's enhanced multithreading capabilities makes it

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possible to collect the forecasts from around 5,000 online sources each day.

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First we look at how Singleton can be implemented in C++ and then provide a Python solution with the same features.

```
class Singleton { public: static Singleton& Handle (); private: static Singleton* psingle; Singleton (); Singleton ( const Singleton& ); Singleton& operator= ( const Singleton& ); };
```

 Figure 1.

Design Patterns in Python

>>> Python Software Foundation. The mission of the Python Software Foundation is to

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promote, protect, and advance the Python programming language, and to support and facilitate the growth of a diverse and international community of Python programmers. Learn more. Become a Member Donate to the PSF

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