abstract base class

Abstract base classes complement duck-typing by providing a way to define interfaces when other techniques like `hasattr()` would be clumsy or subtly wrong (for example withmagic methods). ABCs introduce virtual subclasses, which are classes that don't inherit from a class but are still recognized by`isinstance()` and `issubclass()`; see the `abc` module documentation. Python comes with many built-in ABCs for data structures (in the`collections` module), numbers (in the `numbers` module), and streams (in the `io` module). You can create your own ABCs with the`abc` module.