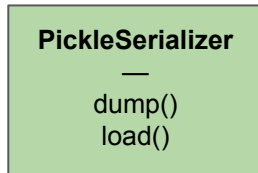


Polymorphism and Abstract Classes

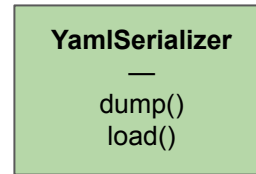
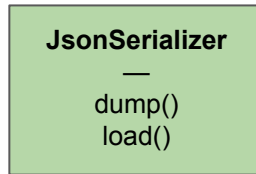
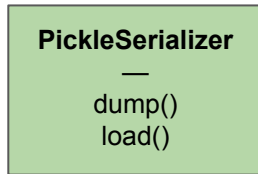
Advanced Python Programming

Valerio Velardo - The Sound of AI

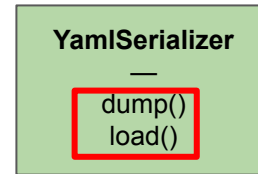
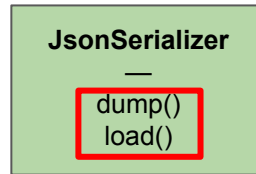
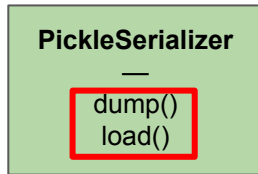
Serialization: Class diagram



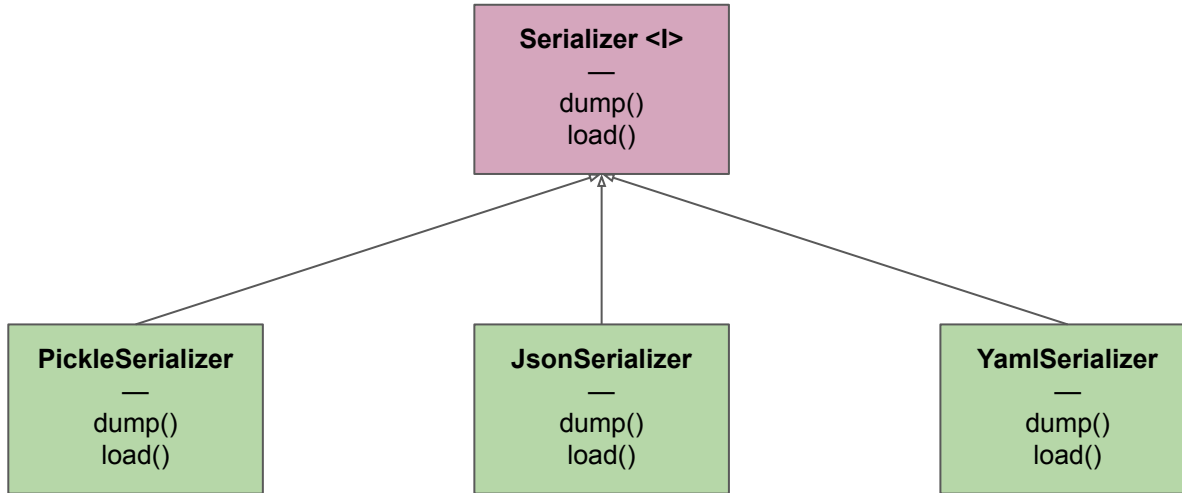
Serialization: Class diagram



Serialization: Class diagram

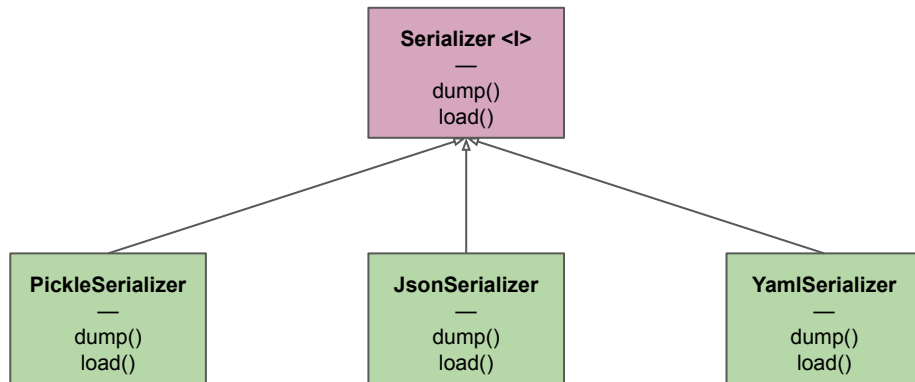


Serialization: Class diagram



Polymorphism

- Single abstract interface
- Sub-classes inherit from abstraction
- Different implementation of interface for each subclass



Advantages of polymorphism

- Code reusability
- Facilitate code extension (open-closed principle)

Python abstract classes

- ABC, @abstractmethod -> from *abc* package
- Provide blueprint for classes
- Abstract method has declaration -> no implementation
- Subclasses should implement abstract methods