Python Cheat Sheet: Classes

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	Description	Example
Classes	A class encapsulates data and functionality: data as attributes, and functionality as methods. It is a blueprint for creating concrete instances in memory. Class Instances Attributes name state color Methods command(x) bark(freq) name = "Alice" state = "sleeping" name = "Bello" state = "wag tail"	<pre>else:</pre>
Instance	You are an instance of the class human. An instance is a concrete implementation of a class: all attributes of an instance have a fixed value. Your hair is blond, brown, or blackbut never unspecified. Each instance has its own attributes independent of other instances. Yet, class variables are different. These are data values associated with the class, not the instances. Hence, all instance share the same class variable species in the example.	
Self	The first argument when defining any method is always the self argument. This argument specifies the instance on which you call the method. self gives the Python interpreter the information about the concrete instance. To define a method, you use self to modify the instance attributes. But to call an instance method, you do not need to specify self.	
Creation	You can create classes "on the fly" and use them as logical units to store complex data types. class Employee(): pass employee = Employee() employee.salary = 122000 employee.firstname = "alice" employee.lastname = "wonderland" print(employee.firstname + " "	

