

Inheritance

```
class name (superclass) :  
    statements
```

– Example:

```
class Point3D(Point) :      # Point3D extends Point  
    z = 0  
    ...
```

- Python also supports *multiple inheritance*

```
class name (superclass, ..., superclass) :  
    statements
```

(if > 1 superclass has the same field/method, conflicts are resolved in left-to-right order)

Mit6 0001f16 Python Classes And Inheritance

Judd E. Hollander



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management Recognize and apply essential OOP design patterns Creational Structural and Behavioral to solve common software design problems fostering scalable and maintainable architectures Develop practical real world object oriented applications through guided case studies demonstrating how to apply OOP principles to build e commerce systems games and data pipelines Write high quality testable OOP code by applying unit testing methodologies using unittest and pytest including techniques for testing class interactions and TDD Adhere to industry standard OOP best practices such as the SOLID principles DRY KISS and YAGNI along with guidelines for writing clean readable and refactorable object oriented Python code Explore advanced Python OOP concepts like metaclasses and descriptors to gain a deeper understanding of Python s object model and empower highly customizable designs [Mastering Python](#) David Blaikie,2015 In this Python Beyond the Basics Object Oriented Programming training course expert author David Blaikie will teach you how to design Python classes and how to implement object oriented programming concepts in Python This course is designed for users that already have a basic working knowledge of Python You will start by learning about classes including defining a class class attributes and working with class and instance data From there David will teach you about inheritance and polymorphism This video tutorial also covers advanced features such as implementing core syntax subclassing built ins and new style classes You will also learn about exceptions and object serialization Finally David will teach you about efficiency and testing including debugging logging and benchmarking Once you have completed this computer based training course you will be fully capable of designing your own Python classes as well as implementing object oriented programming concepts in Python

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