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)

python™

Mit6 0001f16 Python Classes And Inheritance

R Bogdan

Mit6 0001f16 Python Classes And Inheritance:

    Python Object-Oriented Programming Harold M Thompson,2025-06-05 Book Description Unlock the Full Power of Python s Object Model Go beyond the basics and master professional grade OOP techniques with this hands on guide to Python s most powerful features Whether you re building enterprise systems frameworks or performance critical applications this book transforms you from a Python coder into an architect of robust maintainable systems What You ll LearnCore OOP Mastery Design classes with encapsulation inheritance and composition Harness magic methods to make your objects Pythonic Leverage abstract base classes ABCs for strict interfacesAdvanced Patterns Implement design patterns the Python way Factory Strategy Observer Build ORMs with descriptors and metaclasses Optimize performance with __slots__ and memory efficient designsReal World Applications Craft extensible plugin architectures Design domain specific APIs with operator overloading Write self documenting production ready code Key Features Deep Dives into Python s data model Battle Tested Examples Bank systems game entities ORMs Performance Benchmarks When to use and avoid advanced features Anti Pattern Alerts Common OOP mistakes in Python Who This Book Is For Python developers ready to Transition from scripting to large scale OOP design Build frameworks and libraries Master enterprise grade patterns Optimize performance critical code Prerequisites Basic Python and OOP familiarity Finally an OOP book that respects Python s unique power Level Up Your Code Today Write classes that are elegant efficient and enterprise ready   **PYTHON OBJECT-ORIENTED PROGRAMMING FOR BEGINNERS** DONALD. K. FLECK,2025   Python Object-Oriented Programming Pythquill Publishing,2025-06-15 What You Will Learn in This Book Grasp the fundamental principles of Object Oriented Programming OOP including objects classes encapsulation abstraction inheritance and polymorphism and understand why they are crucial for modern software development Master Python s syntax for defining and using classes and objects effectively managing instance and class attributes and implementing various types of methods instance class and static Implement data protection and information hiding through effective encapsulation strategies including the use of properties and understanding Python s attribute access conventions Simplify complex systems using abstraction learning to design clear class interfaces and leveraging Abstract Base Classes ABCs to enforce design contracts Build robust and reusable code hierarchies with inheritance understanding single multiple and multilevel inheritance method overriding and the proper use of super Apply polymorphism to create flexible and extensible code utilizing Python s duck typing and method overriding to allow objects of different types to respond to the same interface Leverage Python s powerful special methods dunder methods to customize object behavior enabling features like operator overloading custom string representations iteration and context management Streamline class creation and reduce boilerplate using modern Python features like dataclasses namedtuple and __slots__ for improved code readability and performance Implement effective error handling strategies by understanding Python s exception model and creating custom exception hierarchies for more specific and maintainable error management Recognize

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