

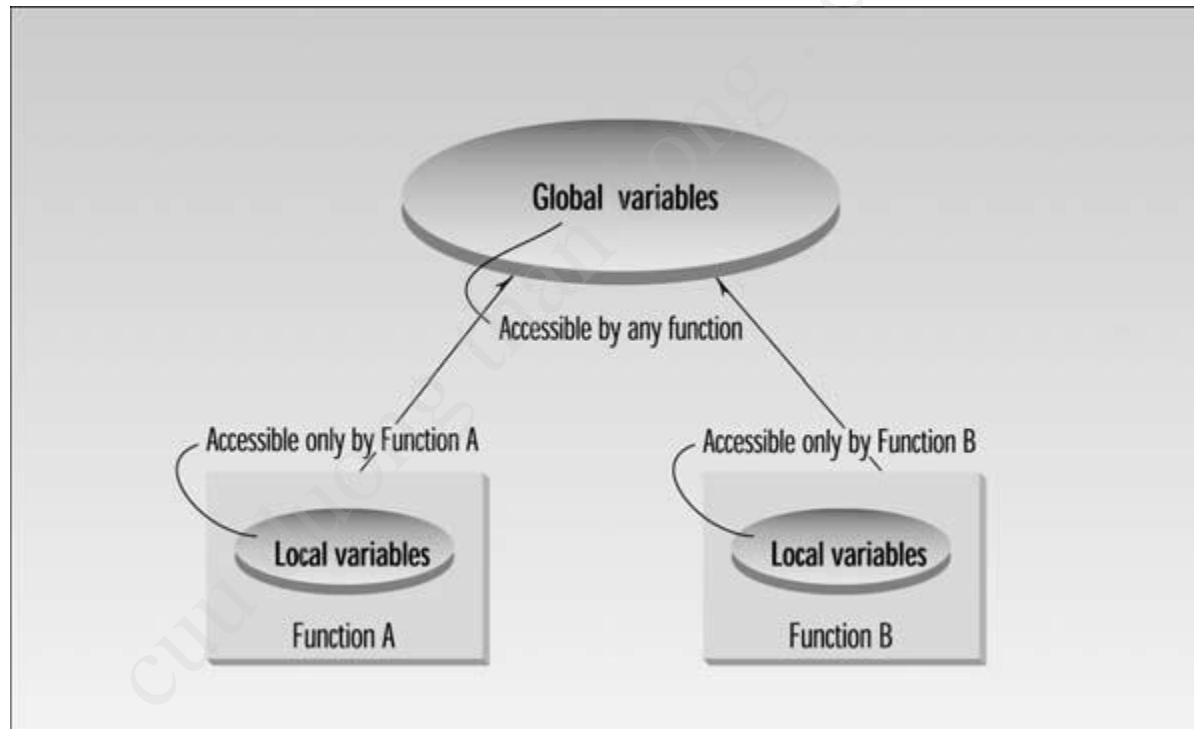
The Big Picture

Ho Dac Hung

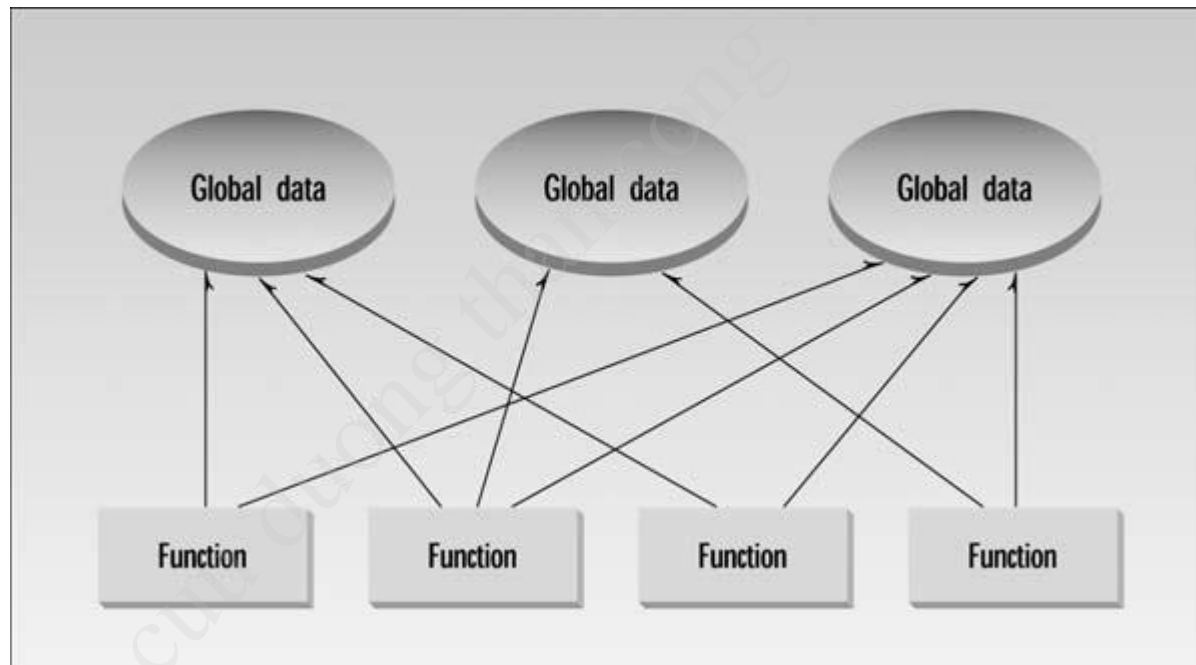
Why Do We Need OOP?

- Object-oriented programming was developed because limitations were discovered in earlier approaches to programming.

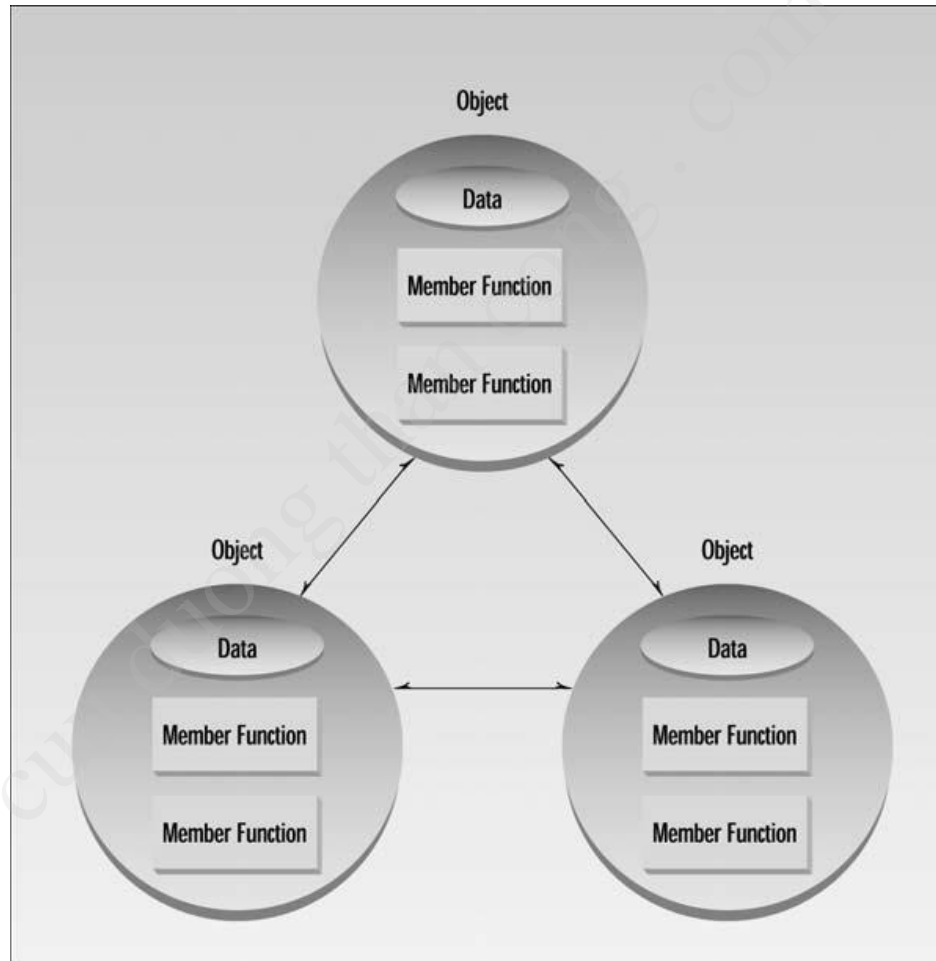
Why Do We Need OOP?



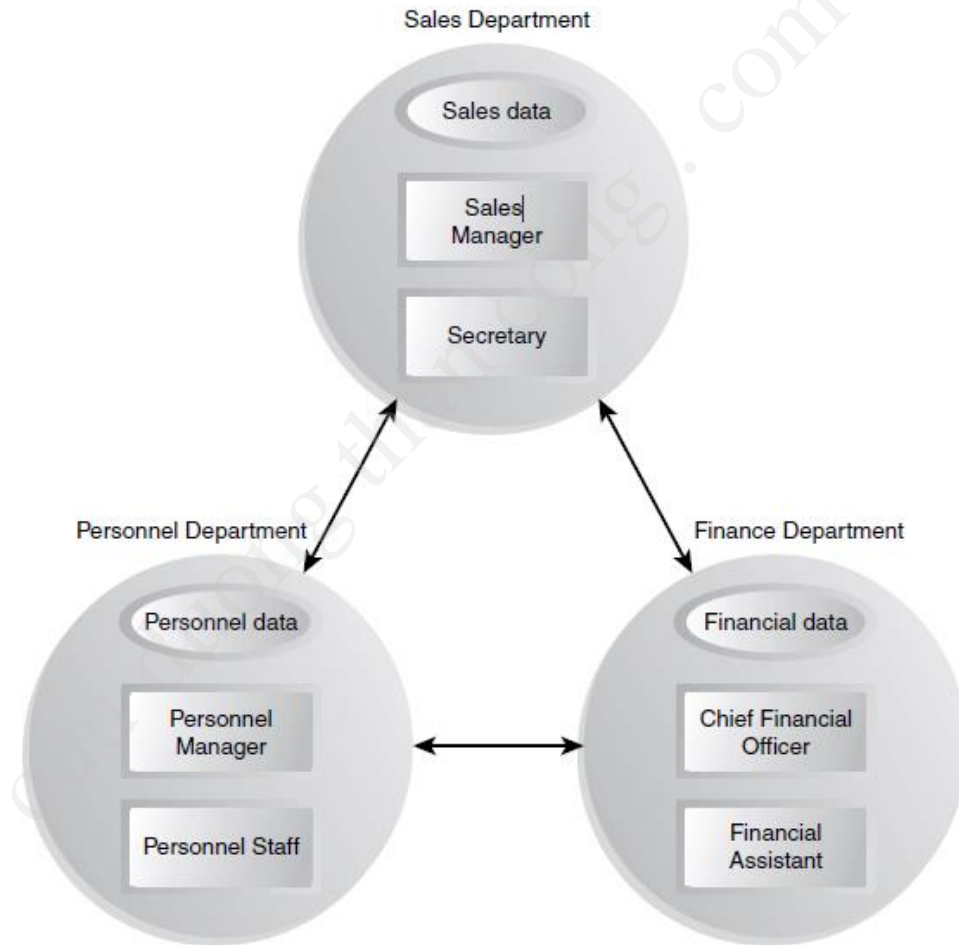
Why Do We Need OOP?



The Object-Oriented Approach



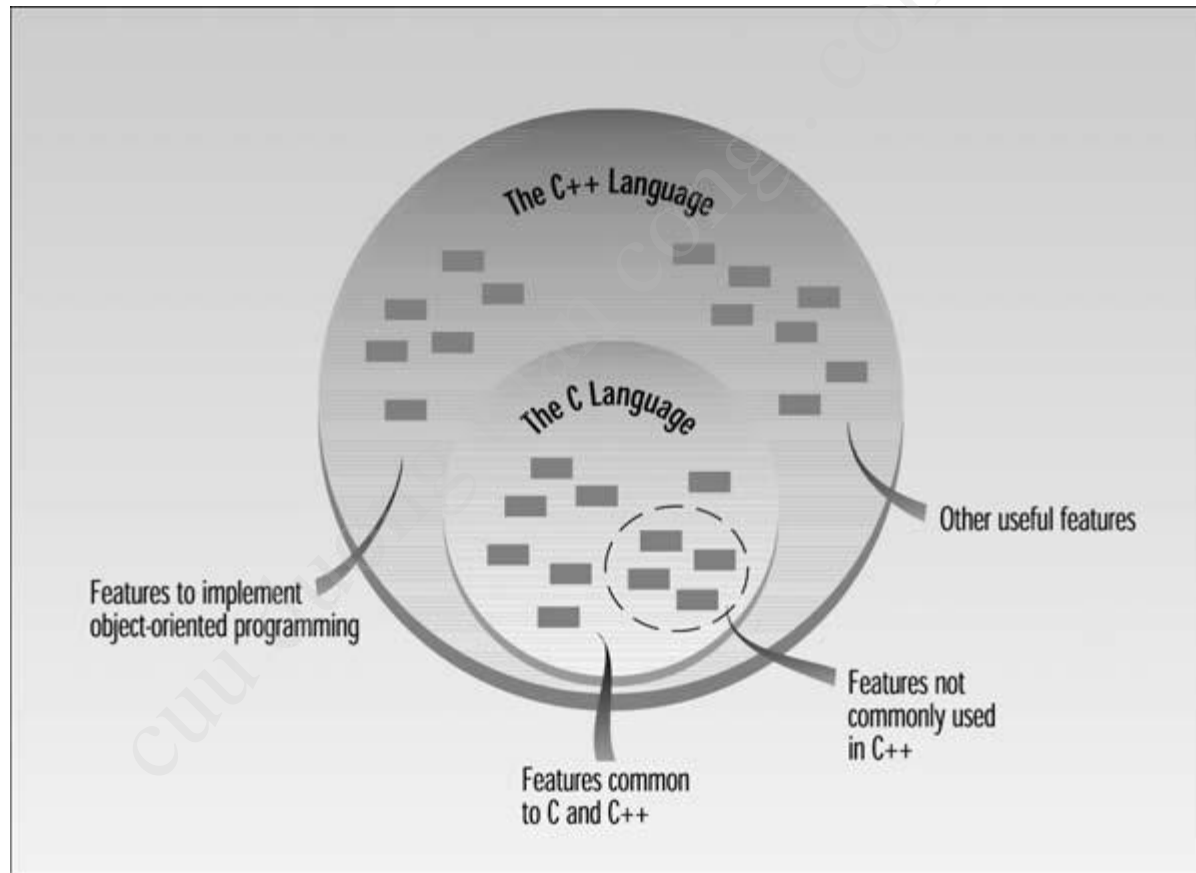
OOP: An Approach to Organization



Characteristics of OO Languages

- Objects
- Classes
- Inheritance
- Reusability
- Creating new data types
- Polymorphism and Overloading

C++ and C



The Unified Modeling Language (UML)

- The UML is a graphical “language” for modeling computer programs. “Modeling” means to create a simplified representation of something, as a blueprint models a house. The UML provides a way to visualize the higher-level organization of programs without getting mired down in the details of actual code.