





## Three Cornerstones of OO Programming

- Packaging data and functions together as classes
- Hiding implementation details from clients
- Overloading (and related concepts)
  - polymorphic (overloaded) functions
  - virtual functions and dynamic dispatch
  - operator overloading

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## Historical Notes

• The object model was first thoroughly developed in **Smalltalk** 

- Smalltalk still looks modern!

- C was as far from object-oriented as you get can get
- C++ = C + O.O. features - Considered an ugly hybrid by many
- Java retains much C++ syntax
- but simpler, purerMany modern programming and scripting languages use aspects of O.O

– Javascript, Perl, Visual Basic, Python, etc. 3/25/2001

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