

# Object Oriented Programming Languages

# What are the benefits?

- Systems more adaptive to change
  - ◆ Information hiding
  - ◆ Encapsulation
- Appeals to human cognition
- Reuse
  - ◆ Gamma et al.: Design Patterns
- Methodologies for design and analysis
  - ◆ Grady Booch: Object Oriented Design & Analysis
  - ◆ CASE tools

# What is an OOPL?

- No consensus
- Cardelli + Wegner:  
OO = ADTs + first class objects + types inheriting attributes from a supertype
- Finkel:  
OO = encapsulation + inheritance + overloading