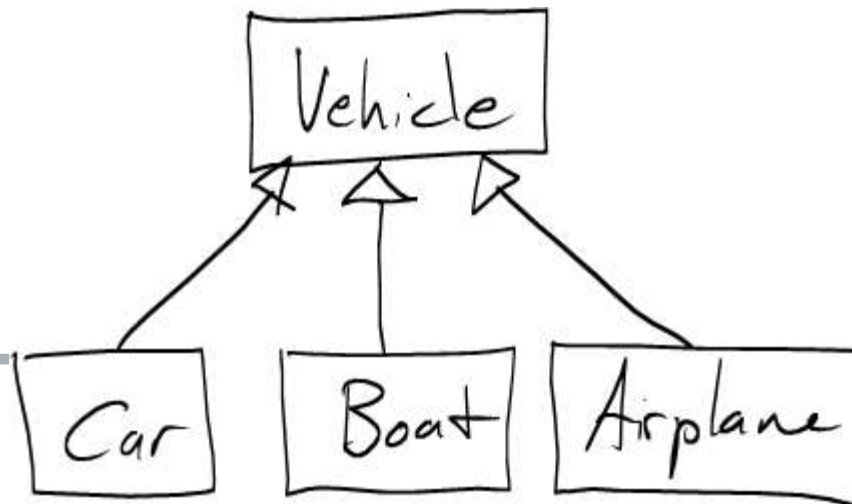


# Lesson 3: Class Design

Class design  
Inheritance



# 3.1 Class Mechanics

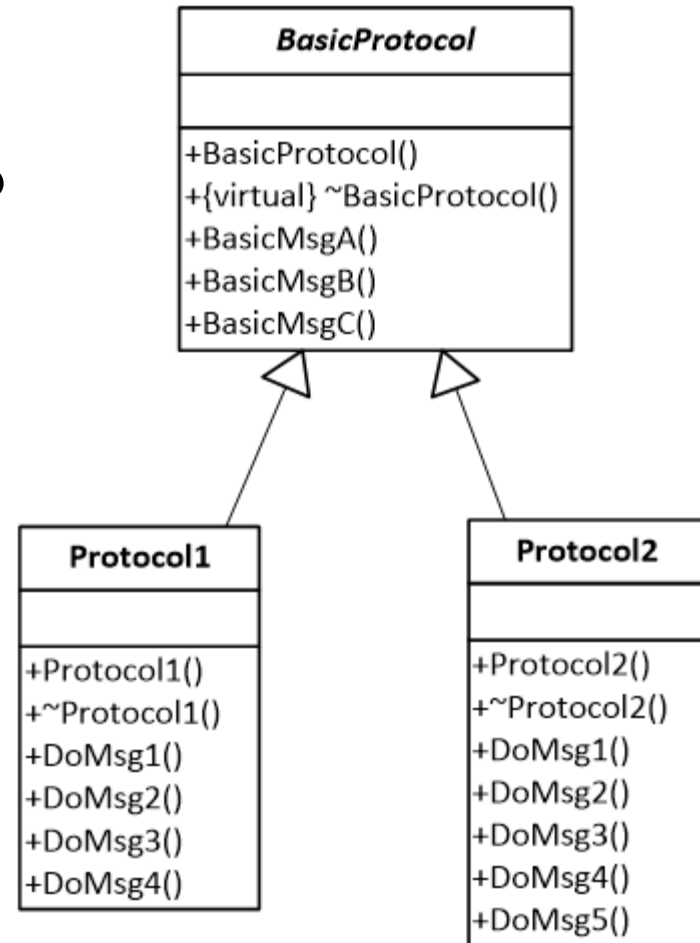
- Review Complex class for problems
  - Issues discovered
  - Solutions
- Guidelines
- Corrected Complex implementation

## 3.2 Overriding Virtual Functions

- Terminology
- Analyze code
- Understand how virtual functions work

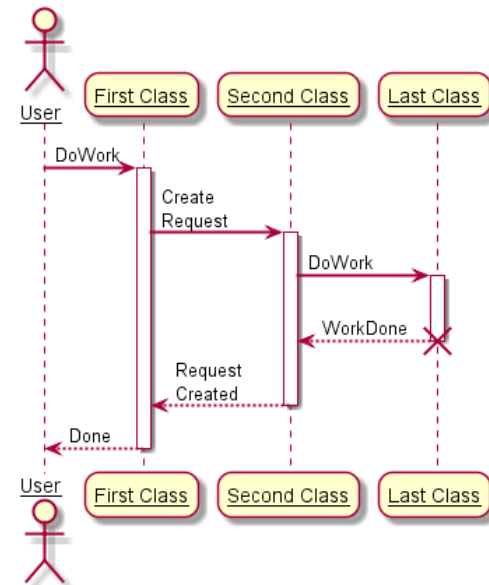
## 3.3 Class Relationships

- Networking app
- Is this good design?
- How to fix
- Guidelines



## 3.4 Sequence Diagrams

- Definition
- Student registration example
- Terminology



## 3.5 Class Relationships 2

- Generic table algorithm
  - Sequence diagram
  - Implementation
- Template method pattern
  - [http://en.wikipedia.org/wiki/Software\\_design\\_pattern](http://en.wikipedia.org/wiki/Software_design_pattern)