Class Design Notations

Outline

• Class Diagram Notation
• Class Forms
• Operation Forms

Class Notation

• Common notation for class

<table>
<thead>
<tr>
<th>Passenger</th>
<th>Class Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Fields</td>
</tr>
<tr>
<td>Address</td>
<td>Operations</td>
</tr>
<tr>
<td>Reservation</td>
<td>changeReservation</td>
</tr>
</tbody>
</table>

• List only important fields and operations

Documenting Class Design

• Design diagrams are not enough to guide implementation of class
• Can use forms to document classes and operations for programmer
• Forms should not include decisions on types for fields, etc. – designing is not coding!
• Forms can be embedded in code as comments

Class Description Form

• Class Name
• Base class(es) - only when using inheritance
• Purpose
• States
• Constructors
• Operations
  – Mutators
  – Accessors
• Fields

Operation Description Form

• Prototype
• Purpose
• Receives
• Returns
• Remarks