CS2704

Topic:
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></td>
</tr>
<tr>
<td>Reservation</td>
<td>Operations</td>
</tr>
<tr>
<td>changeReservation</td>
<td></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