

### Administrivia

Slide 1

- Reminder: Next phase of project (requirements analysis plus initial design) nominally due today. Also individual evaluations. Accepted through Friday without penalty.  
(Review/discuss — where you should be at this point.)
- Next major milestone is design presentations April 19. Aim to have a working prototype by then.  
(Review/discuss — where you should be then.)
- Course “useful links” has links to online sources for MVC pattern, UML diagrams. Updates in work.
- Remember that EclipseUML, a plug-in for drawing UML diagrams, is available on the department Linux machines. My slides from February 8 have instructions for how to access it.

### Other Kinds of UML Diagrams

Slide 2

- There are several other kinds of UML diagrams you may find helpful as you develop your design . . .
- (There are also others that seem potentially very useful for larger applications. At some point probably worthwhile for you to investigate package diagrams and deployment diagrams.)

### UML Activity Diagrams

Slide 3

- Can almost be described as “UML-compliant flowcharts”. Notation very similar, with the addition of something to represent concurrent execution.
- (Example.)
- When to use? When a flow chart is helpful in defining what happens in a use case / program / method / etc. Good for showing “work flow”.

### UML State Diagrams

Slide 4

- Very much like “state machine diagrams” used in some other contexts (e.g., in automata theory (“finite state machines”), or our Computer Design course.)
- (Example.)
- When to use? When it seems applicable to behavior of one kind of object. Not very useful for describing interactions of objects.

## UML Sequence Diagrams

Slide 5

- Most common type of “interaction diagram” — for representing how groups of objects collaborate. Typically represents “single scenario” (i.e., one in which how objects interact doesn’t involve branching or looping — though you can express that if you need to).
- (Example.)
- When to use? When you want to show interactions among objects. Not very good for capturing details of behavior, just interaction.
- Communication diagrams are an alternative. (Example.)

## Minute Essay

Slide 6

- We really only have one lecture slot left (April 5). Any requests?