Administrivia

- Reminder: Quiz 1 Thursday. You can bring, and use, your textbook and any notes. No Web-browsing, though.
- Reminder: Homework 1 design phase due today (11:59pm). Code phase due Thursday.

Slide 1

About the Project

- For most assignments, you'll need multiple sources of information:
 - Assignment writeup, and overall project description.
 - APIs for game framework and Java library.
 - Class discussion.
 - Textbook and/or notes.
- Sometimes you may have trouble tracking down a key bit of knowledge. If this
 happens ask. Assignments are deliberately a bit underspecified, but
 overall plan for the course includes me spending time in open lab, office
 hours, and e-mail answering specific questions.

Slide 2

Review of Key Ideas

- Basic syntax similar to C (declarations, expressions, if/then/else, loops).
- Variables primitive types, reference types.
- Declaring classes variables and methods; static.
- Inheritance and interfaces.
- Java library classes String and System.out.

Generics

- Java library includes classes for collections of things (Vector, e.g. like
 an expandable array). Originally, could put any kind of Object in one of
 these. Nice, except that then there's no way to know anything about types of
 objects inside except by using reflection (*much* later, if at all) or
 instanceof operator. Must also use explicit casts to do much with
 objects retrieved from collection.
- So in Java 1.5 (a.k.a 5.0), there are "generics" similar to C++ template classes. Idea is to allow you to specialize a collection so, a Vector of Integer objects only, or a Vector of Shape objects only, etc., etc.
- Let's do some examples ...
- Let's also look at API for MainFrame in the game framework ...

Slide 3

Slide 4

Minute Essay

• Write Java code to create a Vector to hold Strings, and put into it a String "hello".

Slide 5

Minute Essay Answer

• These lines would work:

```
Vector<String> v1 = new Vector<String>();
v1.add("hello");
```

Slide 6