

Bonus HW1: TurtleDance

DUE DATE: Monday February 11, 2008

Bonus Details: This grade on this homework assignment will replace the lowest homework grade for homework 1-4.

Using Sounds and Turtles create a musical dance where Turtles move in choreographed pattern to Sounds.

Turtle Dance Requirements

You must use at least six Turtles and have them move in a choreographed dance. A choreographed dance is composed of a discernable pattern of movements. You cannot merely just randomize the Turtles' movements. Also the Turtles must dance on an appropriate background; this means the Turtles must be on a Picture!

Musical Requirements

Your musical composition must contain at least five different Sounds. At least one of the Sounds needs to be one you found yourself and must be submitted to T-Square along with the rest of your homework.

Overall Requirements

The entire piece must be at least twelve seconds long. There must be some interweaving between the Turtle dance movements and Sounds. Simply put, you cannot you just move the Turtles a little and then play twelve seconds of Sounds.

Main Method

You must write a main method in TurtleDance to test your dance with Sounds. Though we are not requiring you to write any specific methods, you should write with a better coding style by breaking your dance in to different methods and using loops.

Creativity

A great deal of your points will be based on creativity. Impress your TAs! In case you are not exactly the creative type, here are a couple of dances to consider:

1. Dance Off

A rival gang of Turtles has challenged your gang of Turtles to a dance off. Each gang of Turtles take turns doing a dance in unison. On each turn the current gang of Turtles must repeat what the other gang did previously as well as add on new moves. There must be at least 2 turns meaning that each gang must go at least 2 times.

2. Turtle Waltz

Several Turtle couples have decided to do the waltz. For each couple, the partners must face each other and move together with the music. You must have at least 3 Turtle couples and an appropriate background.

3. Turtle Concert

Intersperse music Sounds with spoken word Sounds to create a soundtrack for the concert. Choose one from the following dances:

- a. **Superstar and Backup Dancers** - A Turtle superstar is performing his/her latest song. Have at least 5 backup dancers while the Turtle superstar is singing his/her song. Remember the backup dancers' dance is usually more elaborate than the superstar's.
- b. **Boy/Girl Band** - Each member of the boy/girl band take turns stepping in front to do a part of the vocals (and perhaps his/her own dance) while the others dance in unison.
- c. **Superstar, Backup Dancers, and Audience** – The concept is basically just like Superstar and Backup Dancers, but instead you must have some Turtles in the audience that will also occasionally move, but how and when they move is really up to you.

What to Turn In

- TurtleDance.java
- One new sound file and any additional sound files not found in MediaSources
- (optional) background pictures not in MediaSources
- (optional) any other modified java class.

How to Turn In

- Turn in via [TSquare](#).