

# Assignment due on Monday, October 31<sup>st</sup> at the start of the Halloween Day class:

Questions to answer and turn in at the beginning of class:

Read the material on the [Waggle Dancing Bees](#) and problem solving. It relates their dancing to choosing and to Ghostbusters and the problem solving and creativity metaphor.

Watch the following [YouTube video on Waggle Dancing Bees](#). It is only 54 seconds only.

What are the 3 D's of the waggle dancing bees? List the three D's.

Bees, as Otto von Frisch discovered, communicate d\_\_\_\_\_,  
d\_\_\_\_\_, and d\_\_\_\_\_ of a food source to other  
members of a hive by the direction, length, and vigor of each burst in  
a "waggle dance".

1. What are the 3 D's of the waggle dancing Bees? <http://www.cs.uni.edu/~jacobson/waggle.txt>

D #1: \_\_\_\_\_

D #2: \_\_\_\_\_

D #3: \_\_\_\_\_

2. Draw the GOAL-DIRECTED LEARNING diagram out with pen or pencil with all the arrows and the words clearly readable. Draw it large enough to fill up one side of a sheet of paper, so there is room to take notes around it. You can do this drawing of the diagram on the back of the same sheet of paper with your answers to question 1 (3Ds of the Bees). Note: *You do NOT need to write out the Leibniz quote. Just draw the diagram!*  
Second Note: *Feel free to use colored pens or acrylics or charcoal or paint or fingernail polish for the diagram too. Does not have to be pen or pencil.*

Here is the [Figure 8.1 Diagram on Goal-Directed Learning](#).

3. What is the favorite thing you have done or learned in one of your first semester at UNI classes during the first 10 weeks this fall? Be specific as to what it was and what the name of the class was. I might be something you learned or read or did in class or did for an assignment or whatever?
4. Which of the following is your favorite software in CS 1025 so far? Circle which one.

NetLOGO      or      After Effects      or      Scratch      or      Maya      or      Data Flyer

5. Watch the following Ghostbuster's video again and write down whatever is one of your favorite quote from the video. [Ghostbusters \(2/8\) Movie CLIP - He Slimed Me](#) is a 2 minute 3 second long YouTube video.