

## ISCL104 Bioanthropology Lab 5 EvoDots Tutorial – Sample Answers

### Simulation 1: First, the baseline condition: Dot size is variable and heritable, survival is selective.

1. Predict how the population of dots will evolve in response to predation. Explain your reasoning.

This would be whatever you predicted before running the simulation. Generally, a reasonable prediction would be that the larger dots should decrease in frequency first, because they are easier to click.

After the first round of predation:

2. Compare the survivors to the starting population. Has the distribution of colors changed? How?

The survivor population should have had a lower frequency of the larger dots – so, fewer yellow, orange, and red (possibly fewer green too). Some folks said that there were now more of the cool-colored dots (purple, blue), but this isn't quite accurate – before reproducing, there won't actually be any more such dots, but they will now make up a larger *proportion* of the survivors than they did of the original population before predation.

3. Click on the Run button again, and eat 25 more dots as fast as you can. Again, compare the survivors to the starting population. Has the distribution of colors changed again? How?

Once again, you should observe still fewer of the red, orange, and yellow dots – it's likely that at least one of these colors will no longer be represented.

4. Was the prediction you made in question 1 correct? Why or why not?

Usually, the outcome matched your predictions. If your original prediction was not correct, I graded this question on your explanation, looking for evidence that you understood what was happening in the dot population.

5. Continue for a few more rounds of reproduction and predation. How many generations does it take for your population of dots to reach a point at which it can no longer evolve?

For most people, it took about 4-5 generations to eliminate all the variation in the population, finishing up with only the smallest sized dots.

### The requirements for evolution by natural selection.

#### *Simulation 2: Size heritable but not variable*

6. Note that each new population of dots you create contains considerable variation in size (and color, which is coded to indicate size). Do you think the population of dots would evolve if there were no variation in the starting population?

If there's no initial variation, there cannot be any evolution.

7. Test your hypothesis. Next to the label Size of dots is: click on the checkbox labeled Variable. There should no longer be a check in the box. Now create a new population. All the dots are the same size (and color). Go through a few rounds of predation and reproduction. Does the population evolve?

This population does not evolve. With no variation, there's no opportunity for differential survival and reproduction among different variants.

#### *Simulation 3: Size variable but not heritable*

8. As we noted above, when the dots reproduce, each mother dot produces two daughters identical in size to each other and to their mother. In other words, size is heritable: It is passed from parents to offspring. Do you think the population of dots would evolve if size were not heritable?

If size is not heritable, evolution by natural selection will not take place. This is because the survivors will not be able to pass on the traits that helped them survive; useful traits will be no more likely to be passed on to offspring than the traits that get you eaten.

# Evodots Lab Answers

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