Solutions to Week 9 Assignment
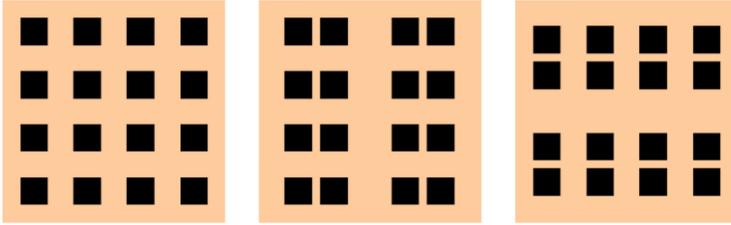
1. A user accidently presses the power off button instead of the backspace key. This is a case of:
   a. Gulf of Evaluation
   b. Gulf of Execution
   c. Bad Color scheme
   d. Fitt's Law

2. According to Fitt's law, pie menus should always be preferred over lists:
   a. True
   b. False

3. Which of the following is/are a reason for Gulf of Execution:
   a. Unfamiliar Device
   b. Unfamiliar Interaction
   c. Lack of knowledge on the possible commands
   d. All of the above

4. Which of the following is/are reasons for Gulf of Evaluation:
   a. Poor use of colors
   b. Widgets with clear meaning
   c. Unfamiliar device
   d. None of the above

5. Which of the following is/are not a valid Visual Grouping design?
   a. Connections
   b. Ordering
   c. Un-ordering
   d. Proximity

6. To get color right, one should:
   a. First design in grayscale
   b. Change intensity values when converting from grayscale to colour
   c. Using saturated colours
   d. None of the above

7. Fitt's Law recommends pie-menus to lists. However, we don't see pie menus everywhere because:

a. They are aesthetically unappealing
b. They scale very well
c. **They are unfamiliar to people**
d. **They are hard to implement for a large number of items**

8. Decreasing the Gulf of Evaluation always leads to an increase in the Gulf of Execution:
    a. True
    b. **False**

9. Poor use of colors can lead to:
    a. **Gulf of Evaluation**
    b. Gulf of Execution
    c. Fitt's Law
    d. None of the above

10. Fitt's law states that the model of human movement in HCI is a function of the
    _____ and _____:
    a. Color of the target, Size of the target
    b. Size of the target, Color of the target
    c. **Distance to the target, Size of the target**
    d. Shape of the target, Distance to the target

11. For selecting the color of an emergency sign like a Stop sign, you would use:
    a. Gray color
    b. Desaturated color
    c. Pastel color
    d. **Saturated color**

12. Which of the following is the formula for Fitt's law:
    a. **Time=A+B*log(Dist/Size+1)**
    b. Time=A+B*log(Dist/Size-1)
    c. Time=A-B*log(Dist/Size-1)
    d. Time=A-B*log(Dist/Size+1)

13. While evaluating the color scheme in a design, one must consider:
    a. **Hue**
    b. **Intensity**
    c. **Saturation**

d. None of the above

14.

This image is an example of which Fundamental Principle of Visual Design?

    a. Proximity
    b. Hierarchy
    c. Color
    d. Small Multiples

15. The Gulf of Execution exists in which part of the Interface Cycle?

    a. User acts to produce inputs
    b. User evaluates and understands display
    c. User formulates goals
    d. User formulates actions