

## Lab 1: Balance and Layout

- 1) Draw 6 squares, 180 points (pts) on each side.
- 2) Inside of square #1:
  - draw a circle that is 50 pts high by 50 pts wide;
  - fill the circle's interior, 100% black;
  - place the circle at the visual center of the square.
- 3) Inside of square #2:
  - draw 3 circles: one 10 x 10 pts, one 35 x 35 pts, and one 72 x 72 points;
  - arrange the circles inside of the square so that they are balanced.
- 4) Inside of square #3:
  - again, draw 3 circles that are 10 x 10, 35 x 35, and 72 x 72 pts.
  - fill the small circle with 100% black;
  - fill the medium circle with 100% magenta (including the border);
  - fill the largest circle with 75% cyan (again including the border);
  - arrange the circles inside of the square maintaining good balance.
- 5) Inside of square #4:
  - make a right triangle so that the two adjacent sides are 72 pts long (the hypotenuse being opposite the right angle and longer than 72 pts);
  - draw a rectangle that is 120 pts x 35 pts, make the interior and border 50% black;
  - draw two circles, both 50 x 50 pts. Make one solid black, and the other 20% gray (both interior and border);
  - arrange objects inside of the square maintaining good balance.
- 6) Inside of square #5:
  - draw a grid with lines that are spaced 36 pts apart (5 rows and 5 columns);
  - draw solid black circles of sizes 9x9, 18x18, 27x27, 36x36, 52x52 and 72x72;
  - create a visual hierarchy so that 3 smaller circles appear 'above' three larger circles, that all circles appear above the grid lines, and that the horizontal grid lines appear above the vertical grid lines. Note, you can chose the line widths for the grid lines.
- 7) Inside of square #6:
  - again draw a grid, but this time create 10 columns and rows;
  - the width of the first line in each row (from left to right) and in each column (from top to bottom) should be 0.5 pts;
  - the width of each subsequent line should be increased by 0.5 pts (i.e., 0.5, 1.0, 1.5, 2.0, etc.);
  - indicate on the grid where the highest visual contrast is by drawing an open polygon around these areas.
- 8) When you have completed steps 1 through 7, arrange the boxes evenly on the page.

Name your file [your last name].lab1 (e.g., freunds Schuh.lab1) and save it to WebCT (BTW, I do have the course set up on WebCT now!!). Your file should be uploaded before the start of lab on the due date.