Problems for the Adept

Lesson 2

Simple exercises

- Produce a generic sign in portrait mode with some pithy statement centered on it.
- Rotate text: Take a word or phrase and print it radially outward from a central point in increments of 10 degrees.
- Vanishing text: Take a phrase or saying and **show** it several times such that it vanishes off to the distance (cf. *Star Wars*).
- Experiment with extreme font sizes. What is the smallest font that is still legible? When, if ever, do the fonts become so large as to look strange?
- Striped text: Write text in a large font and put vertical stripes through it, attempting to acheive neat effects.
- Draw rotating diminishing squares around a central point (include the phrase "Help, I'm trapped in an infinite loop" artistically in the picture).

Medium/difficult exercises

- Rotate and diminish an arbitrary figure (as above, only this time take a user procedure as an argument to generate the figure).
- Draw a *Good* approximation to a spiral (hint: use overkill)
- Draw an Integral sign: e.g.

$$\int_0^1 x^2 dx$$