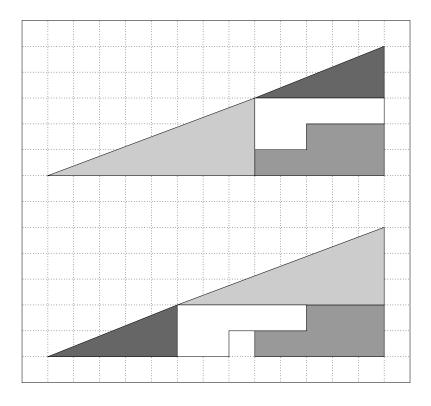
Assignment 3

Due: September 15

- (i) This assignment is due back the first day of classes in the second part of the semester.
- (ii) We have a test coming up in class on the 27th of August.
 - 1. Look at the following figures. The bottom figure contains the same pieces as the top one, but they have been rearranged.



- (a) Explain where the extra square came from in the bottom figure.
- (b) Which aspect of graphical perception is being used to fool you here?

- 2. Colour Swatches.
 - (a) Produce a plot which consists of a square divided into 6 rows and 6 columns. Across each row, vary the colour hue from 0 to 1 and down each column, vary the saturation from 0 to 1.
 - (b) Produce a plot which consists of a square divided into 6 rows and 6 columns. Across each row, vary the intensity (or value) of the colour from 0 to 1 and down each column, vary the saturation from 0 to 1.

Hint: The R code here should consist of just a few lines of code. In particular, you can produce all the squares with just one call to **rect**.