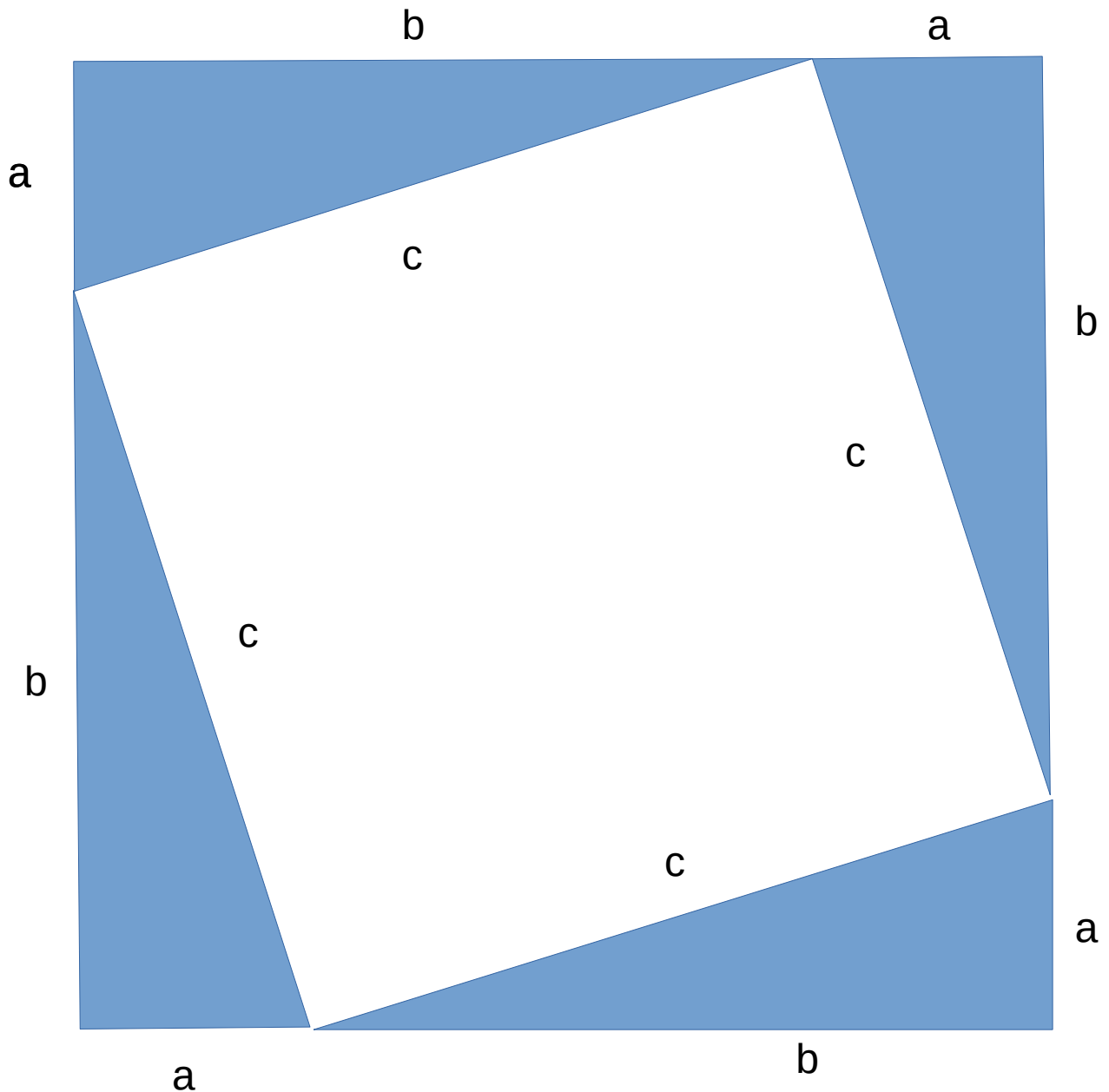# The theorem of Pythagoras

The area of the large square is equal to the area of the small square, plus the area of the four right angled triangles

$$(a+b)^2 = c^2 + 4ab/2$$

$$a^2 + 2ab + b^2 = c^2 + 2ab$$

$$a^2 + b^2 = c^2$$