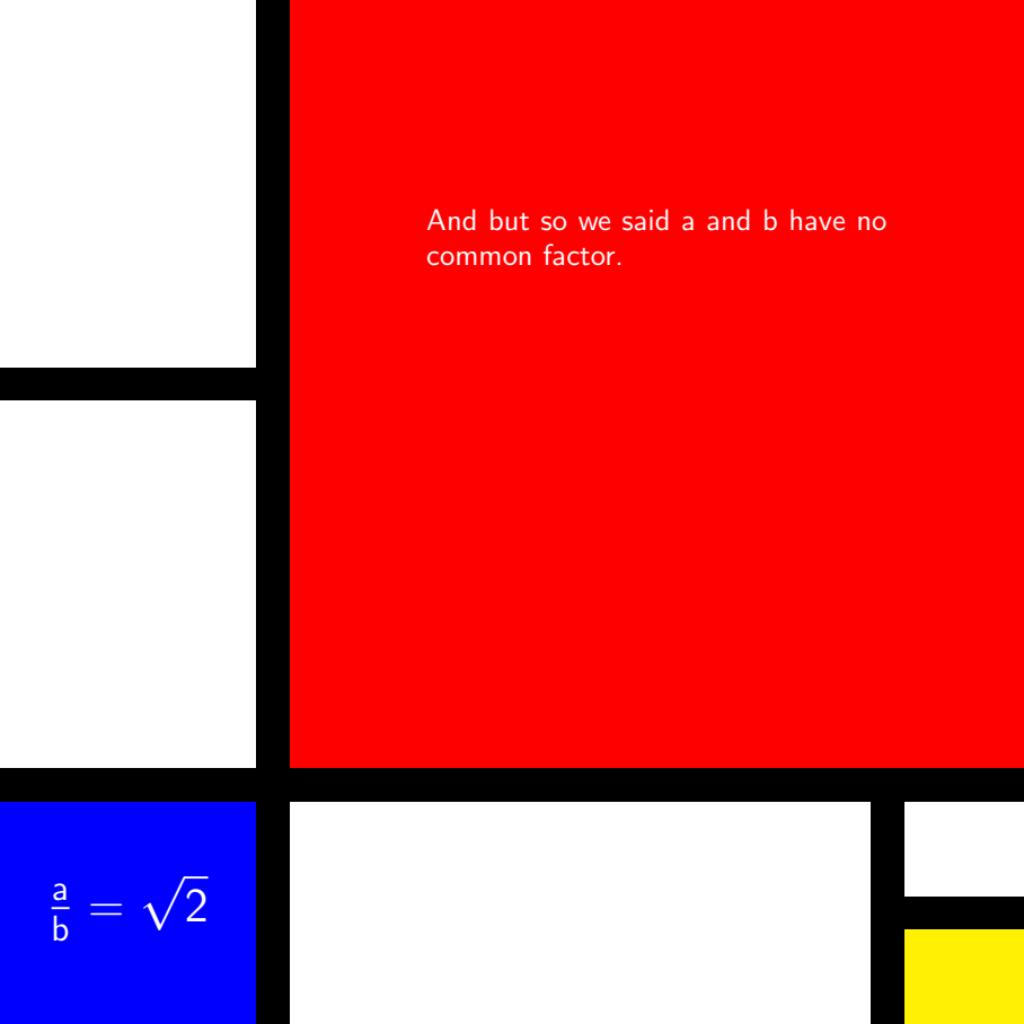


So what?


$$a^2 = 2b^2$$



And but so we said a and b have no common factor.

$$\frac{a}{b} = \sqrt{2}$$