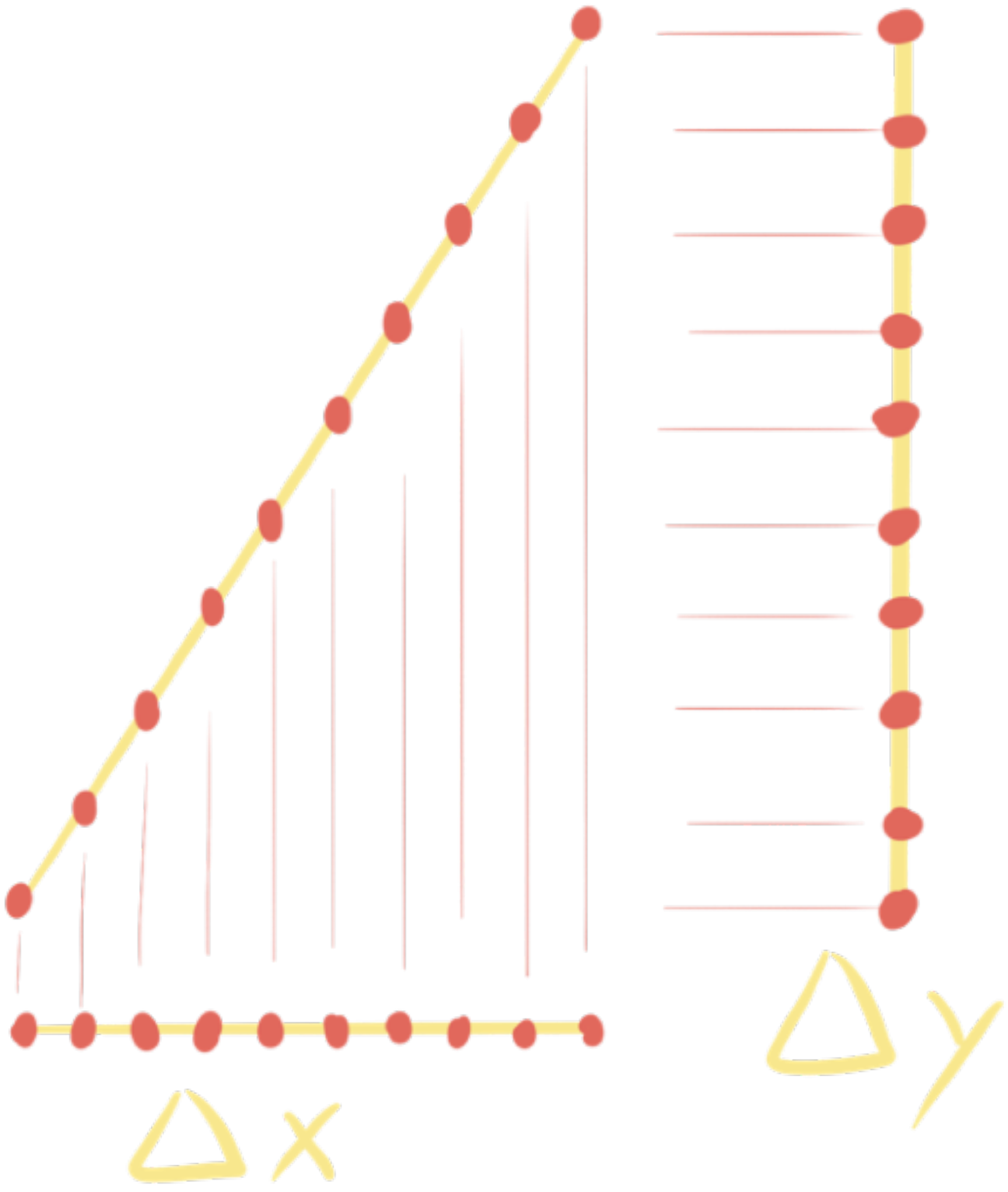
Local picture: approximate graph by line


Δx
Δy

$$\text{Density} = \frac{\text{Stuff}}{\text{distance}} = \frac{\Delta x}{\Delta y}$$

$$= 1/\text{Slope}$$

$$\text{Density} = \frac{1}{f'(x)}$$

Amount of "stuff" = Δx
spread over distance Δy

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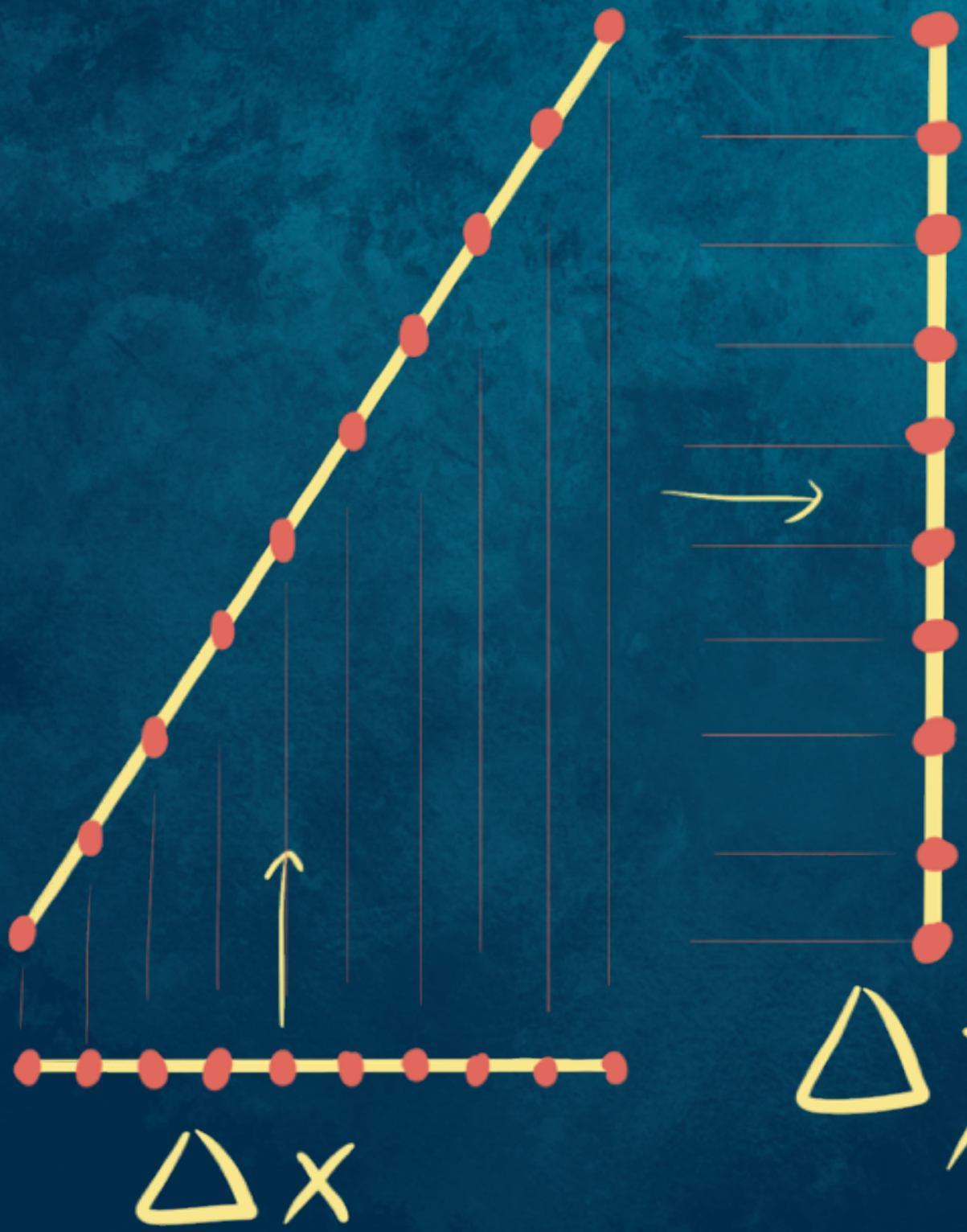

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Density $\sim 1/f'(x)$