

Original image




$(0,0)$

$(1, \frac{1}{3})$

Scaling (symmetrically)

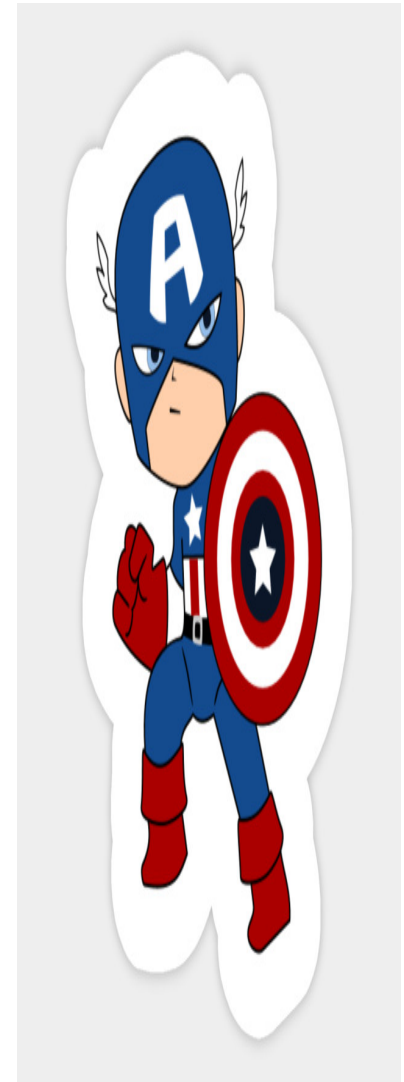
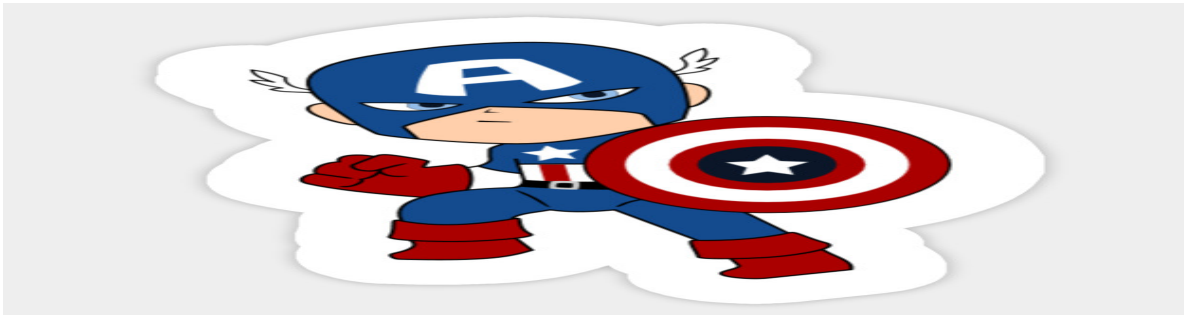
$$A = \begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}$$
$$\vec{x} \mapsto \begin{pmatrix} \alpha x_1 \\ \alpha x_2 \end{pmatrix}$$

 $\cdot (\alpha, \frac{\alpha}{3})$



Scaling (asymmetrically)

$$A = \begin{pmatrix} \alpha_1 & 0 \\ 0 & \alpha_2 \end{pmatrix}$$



Rotation

matrix ? (exer)



Reflection

matrix?



Shearing (skewing)

(matrix?)

