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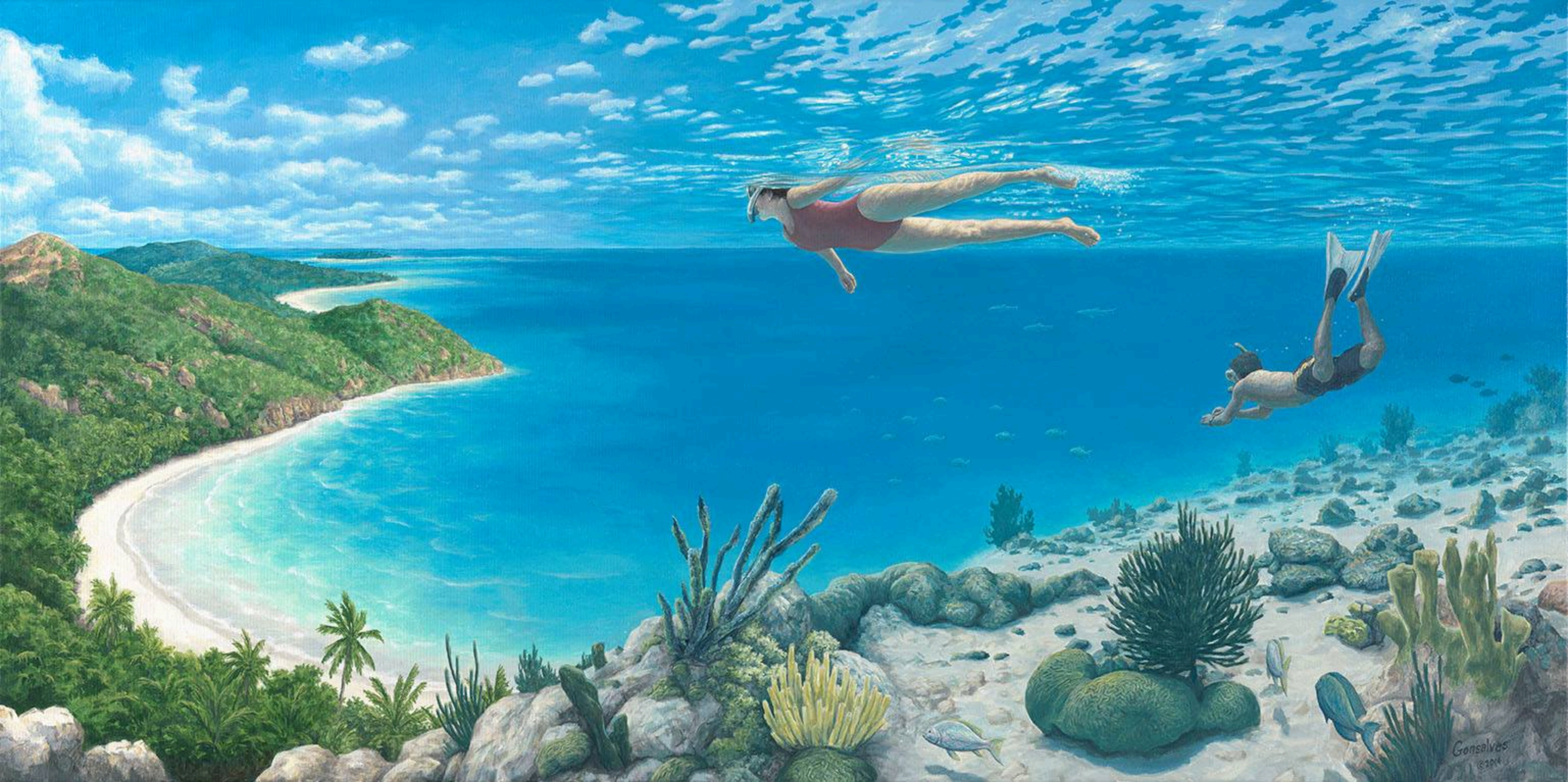






Sant'Alves





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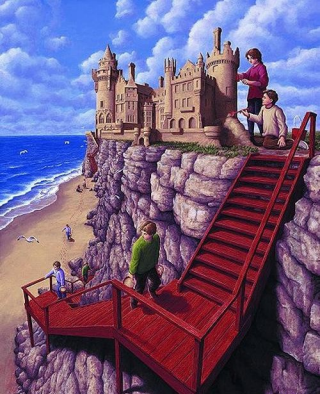
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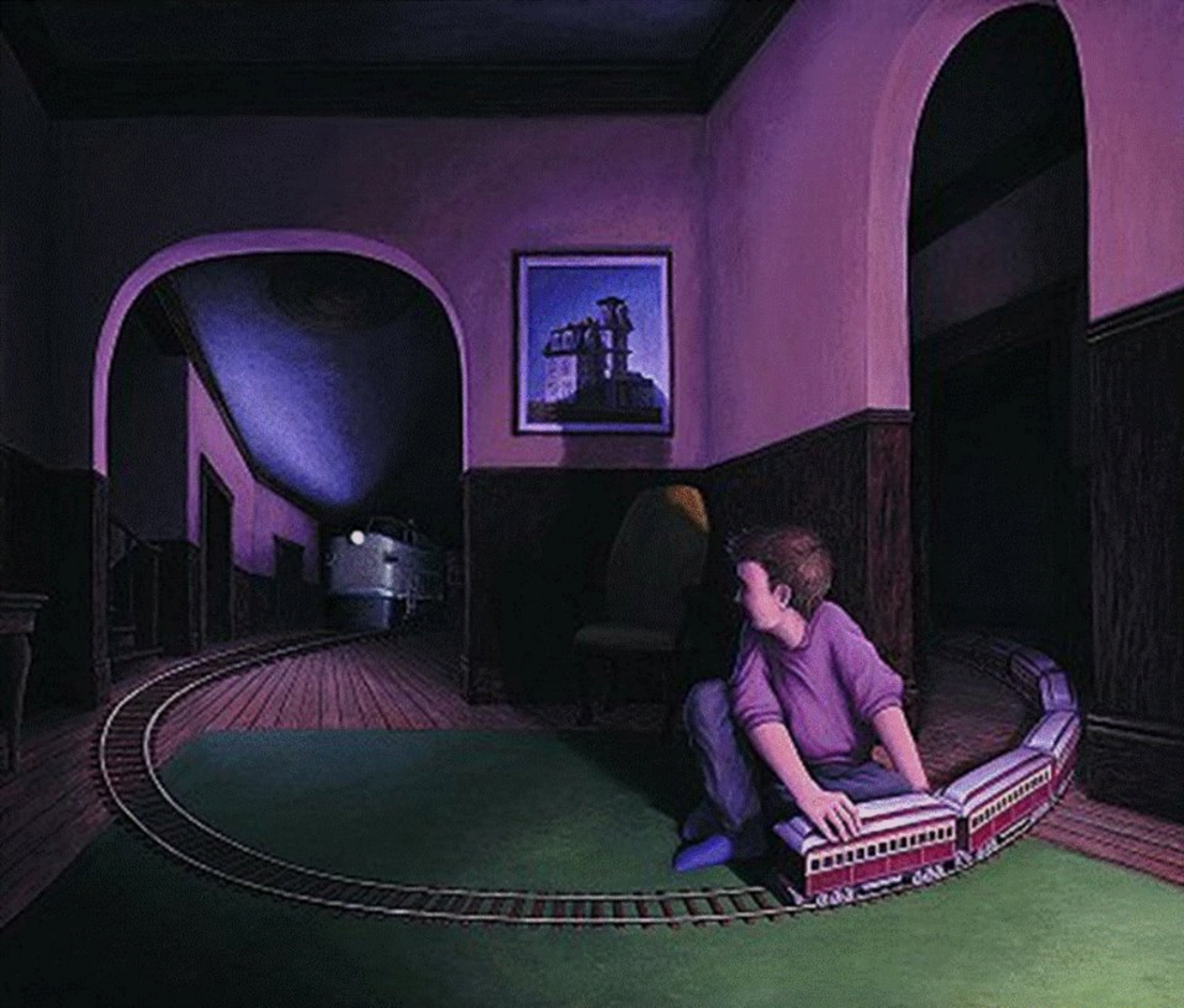














JESSICA'S
BALLOON
BOX

Gonzales























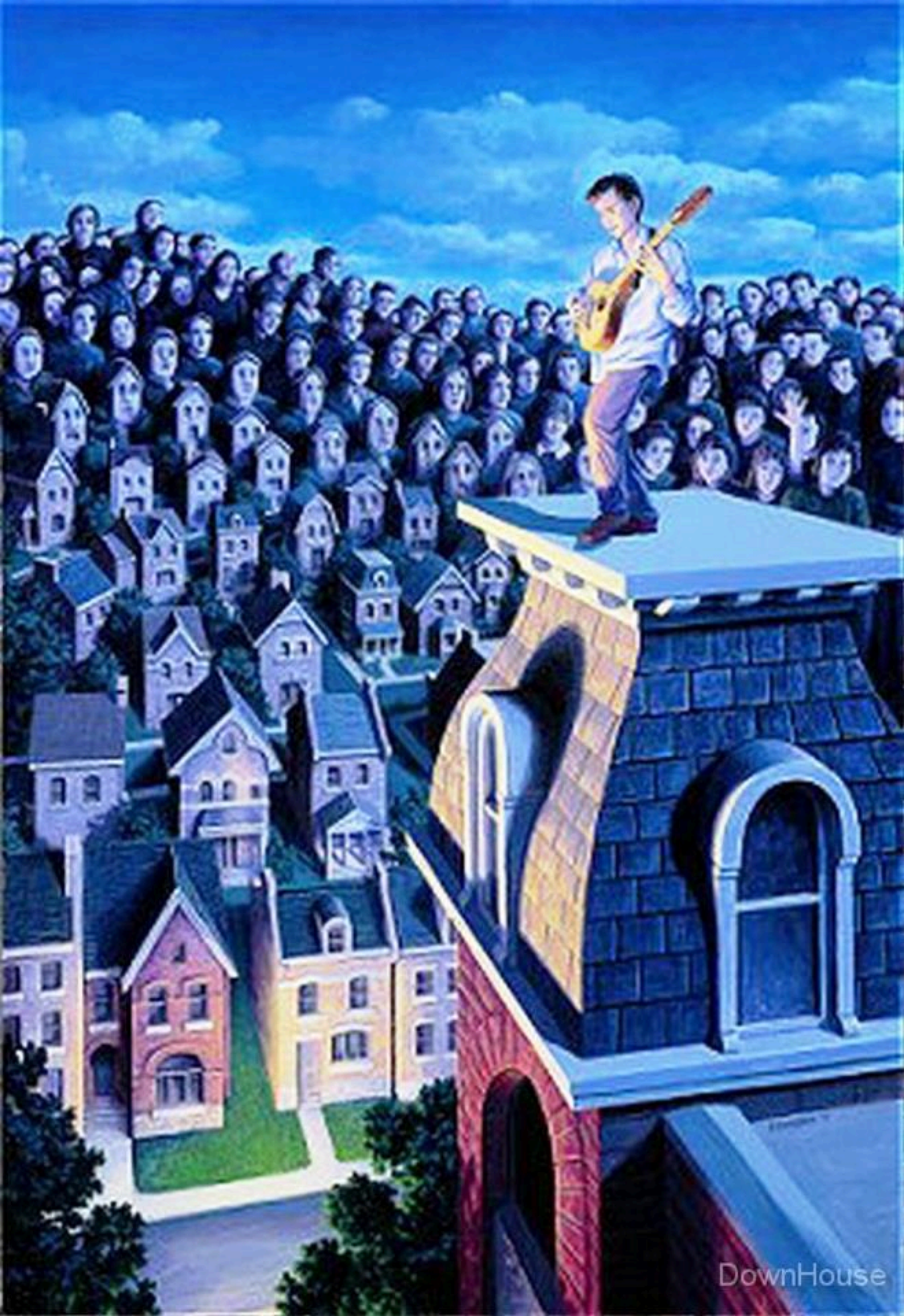
































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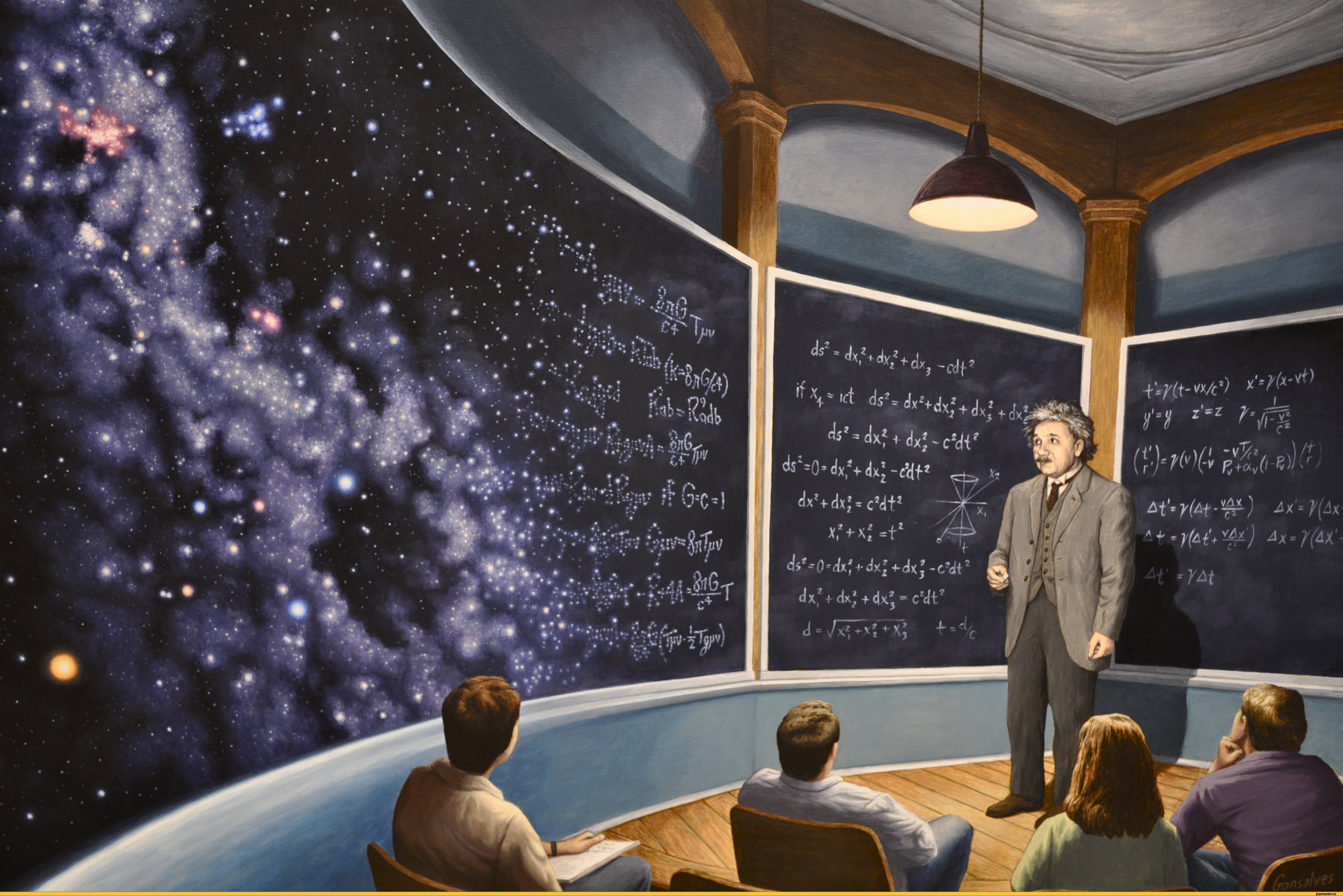


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$$R_{\mu\nu} - \frac{8\pi G}{c^4} T_{\mu\nu} = 0$$

$$R_{ab} = R_{ba} \quad (k = 8\pi G/c^4)$$

$$R_{ab} = R_{cd}$$

$$R_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}$$

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$$ds^2 = dx_1^2 + dx_2^2 + dx_3^2 - c^2 dt^2$$

if $x_4 = ict$ $ds^2 = dx_1^2 + dx_2^2 + dx_3^2 + dx_4^2$

$$ds^2 = dx_1^2 + dx_2^2 - c^2 dt^2$$

$$ds^2 = 0 = dx_1^2 + dx_2^2 - c^2 dt^2$$

$$dx_1^2 + dx_2^2 = c^2 dt^2$$

$$x_1^2 + x_2^2 = t^2$$

$$ds^2 = 0 = dx_1^2 + dx_2^2 + dx_3^2 - c^2 dt^2$$

$$dx_1^2 + dx_2^2 + dx_3^2 = c^2 dt^2$$

$$d = \sqrt{x_1^2 + x_2^2 + x_3^2} \quad t = d/c$$

$$t' = \gamma(t - vx/c^2) \quad x' = \gamma(x - vt)$$

$$y' = y \quad z' = z \quad \gamma = \frac{1}{\sqrt{1 - v^2/c^2}}$$

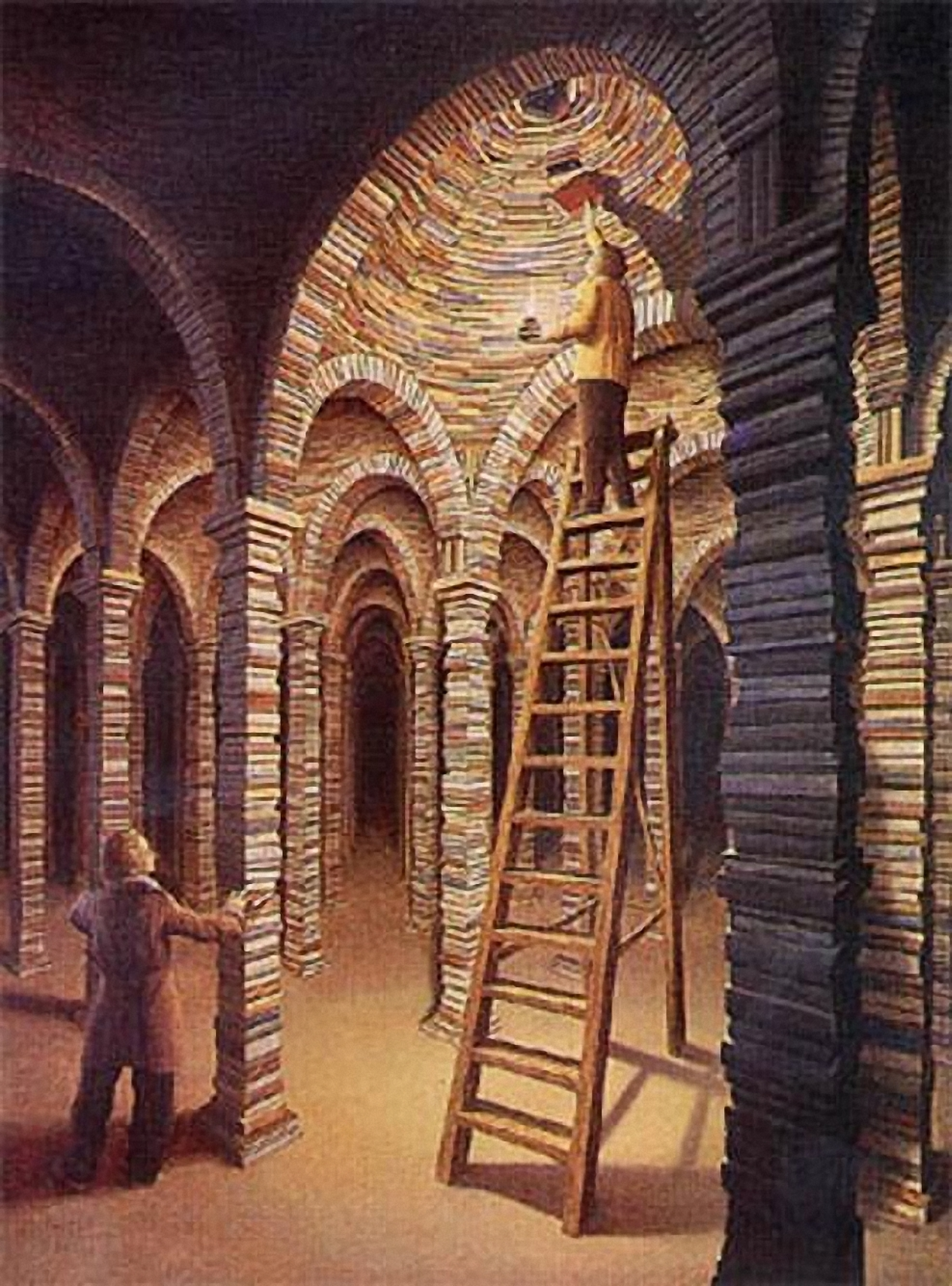
$$\begin{pmatrix} t' \\ r' \end{pmatrix} = \gamma(v) \begin{pmatrix} -v & -v/c^2 \\ v & 1 - \beta^2 \end{pmatrix} \begin{pmatrix} t \\ r \end{pmatrix}$$

$$\Delta t' = \gamma(\Delta t - \frac{v\Delta x}{c^2}) \quad \Delta x' = \gamma(\Delta x - v\Delta t)$$

$$\Delta t = \gamma(\Delta t' + \frac{v\Delta x'}{c^2}) \quad \Delta x = \gamma(\Delta x' + v\Delta t')$$

$$\Delta t' = \gamma\Delta t$$





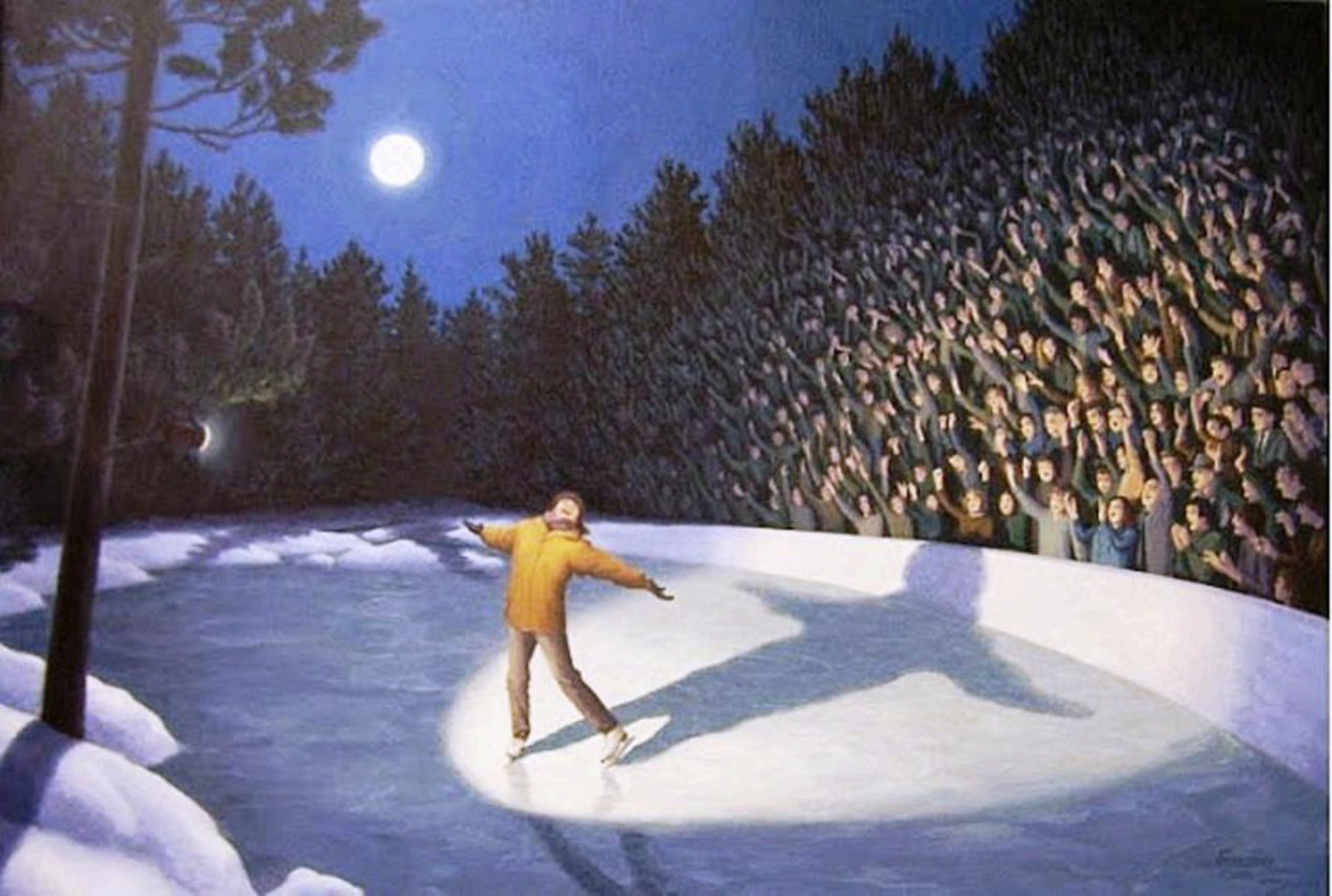




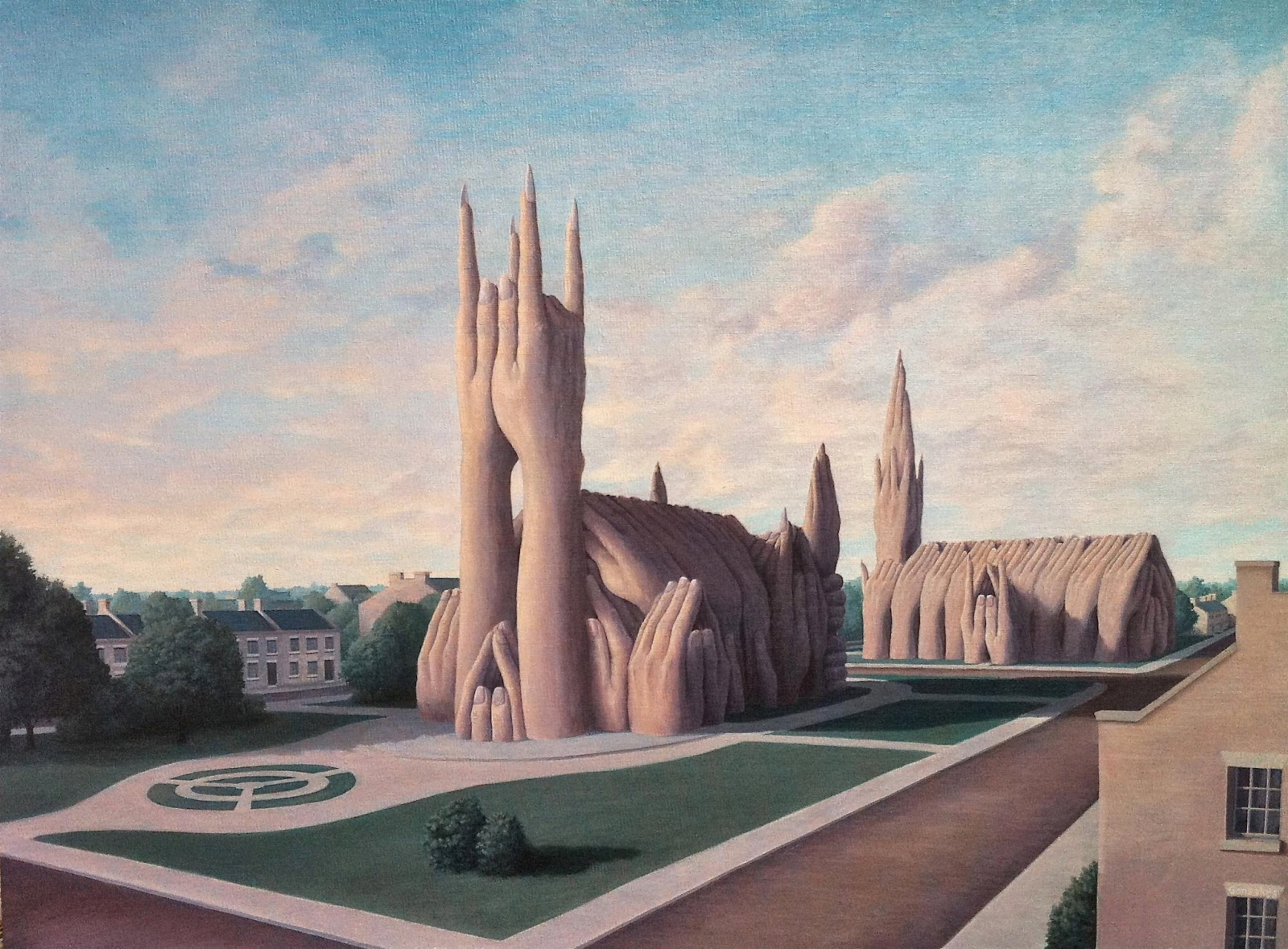


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2012















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