

$$\mathbb{C}^{\times} \xrightarrow[\text{Joukowski}]{\mathcal{J}} \mathbb{C}$$

$$z \mathcal{J} = \frac{z + \frac{1}{z}}{2} = \frac{\frac{z+1}{z-1} + 1}{\frac{z+1}{z-1} - 1}$$

$$\mathcal{J} = \frac{1 \mid -1}{1 \mid 1} \circ \frac{1 \mid -1}{1 \mid 1}$$

$$\{0 < \Re z < 1\} \xrightarrow[\text{)}]{\mathcal{J}} \mathbb{C} \setminus \{-1 \leq x \leq 1\}$$