

$$\text{apply} : SE(n) \times \mathbb{R}^n \longrightarrow \mathbb{R}^n,$$

$$\langle \langle \mathbf{R}, \mathbf{t} \rangle, \mathbf{p} \rangle \longmapsto \mathbf{R}\mathbf{p} + \mathbf{t}.$$