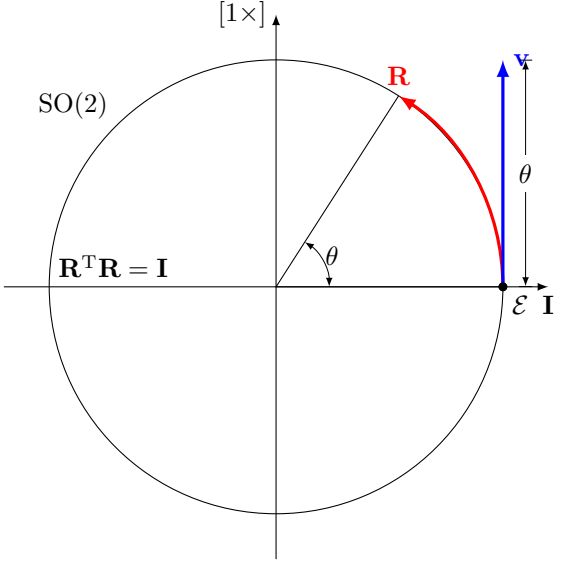
SO(2) : The 2D rotation matrices



Action:	rotate Multiple operator: Lie group!
Constraint:	$\mathbf{R}^{\mathrm{T}}\mathbf{R} = \mathbf{I}$
Topology:	"circle" SO(2)
Elements	$\mathbf{R} = \mathbf{I}\cos(\theta) + [1\times]\sin(\theta) = \begin{bmatrix} c\theta & -s\theta \\ s\theta & c\theta \end{bmatrix}$
Inverse:	$\mathbf{R}^{\mathrm{T}}$
Composition:	$\mathbf{R}_1 \cdot \mathbf{R}_2$