

*Tangent*  $\mathcal{T}\mathcal{M}_\varepsilon$

*Lie algebra*  $\tau^\wedge \in \mathfrak{m}$



*Vector*  $\tau \in \mathbb{R}^m$

$\exp$



$\log$

$\text{Exp}$



$\text{Log}$

*Manifold*

$\mathcal{X} \in \mathcal{M}$