

from trigonometry import sin, cos

$$x(\theta, \phi) = \begin{bmatrix} R \cos(\theta) \cos(\phi) \\ R \sin(\theta) \cos(\phi) \\ R \sin(\phi) \end{bmatrix}$$

where

- $\phi \in \mathbb{R}$ angle between 0 and 2π
- $\theta \in \mathbb{R}$ angle between $-\pi/2$ and $\pi/2$
- $R \in \mathbb{R}$ the radius of the sphere