



## SPACE VECTOR ANGLES

### Why

We generalize the notion of angles in the plane to angles in space.

### Definition

The *angle* (*unsigned angle*) between  $x \in \mathbf{R}^3$  and  $y \in \mathbf{R}^3$  is the real number

$$\theta = \angle(x, y) = \cos^{-1} \frac{x^\top y}{\|x\| \|y\|}$$



