

scifir::scalar\_unit

scifir::angle

scifir::vector\_unit\_2d

theta

The diagram illustrates the decomposition of a 2D vector into its scalar and angular components. At the bottom, a gray box labeled 'scifir::vector\_unit\_2d' represents the vector. A solid blue arrow points from this box to a white box labeled 'scifir::scalar\_unit', representing the magnitude of the vector. A dashed purple arrow points from the same box to a white box labeled 'scifir::angle', representing the direction of the vector. The label 'theta' is placed near the dashed arrow, indicating the angle.