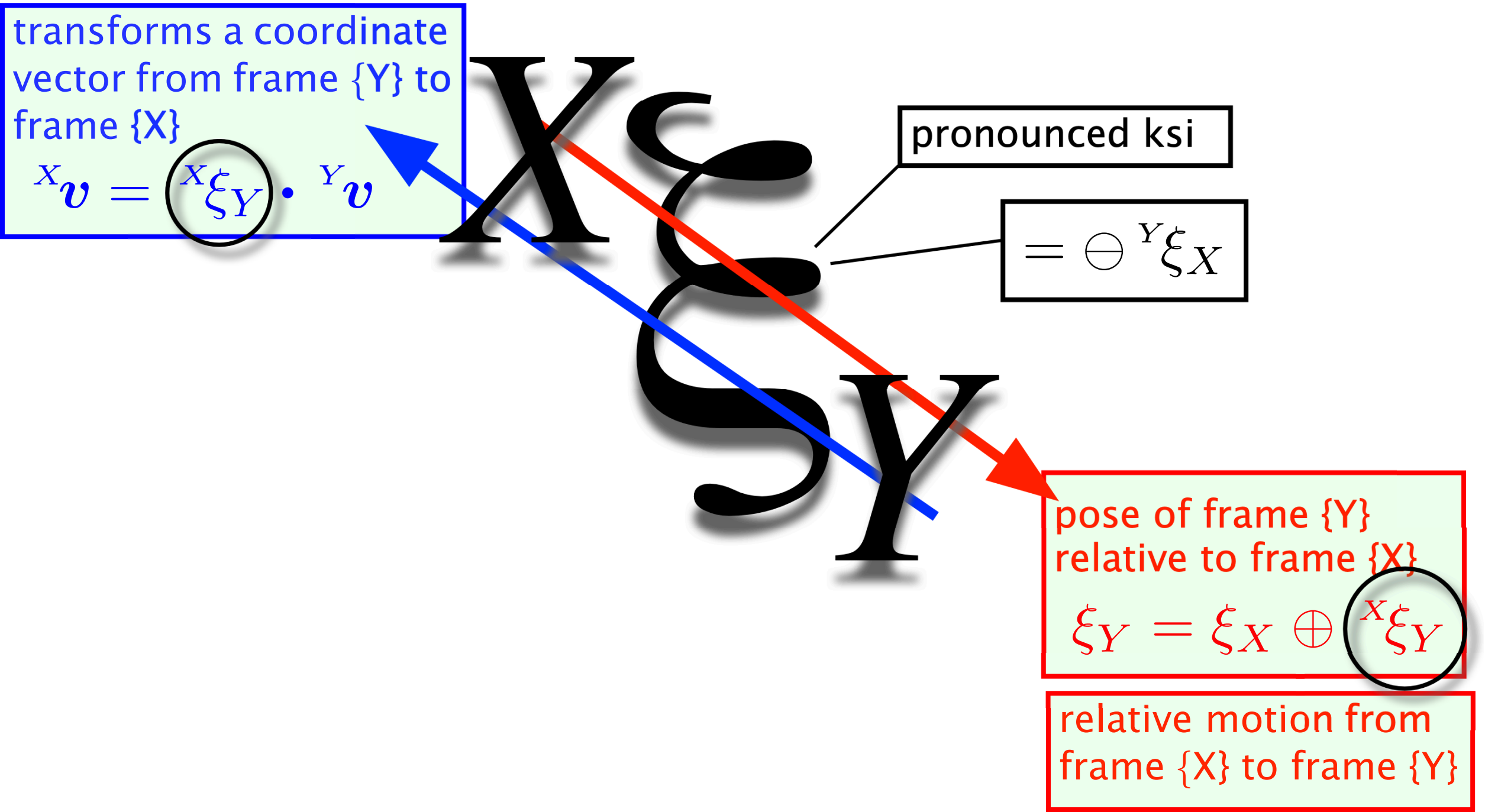
transforms a coordinate vector from frame {Y} to frame {X}
${}^{X}\boldsymbol{v} = {}^{X}\xi_{Y} \bullet {}^{Y}\boldsymbol{v}$
$X\xi Y$
pronounced ksi
$= \ominus {}^{Y}\xi_{X}$
pose of frame {Y} relative to frame {X}
$\xi_Y = \xi_X \oplus {}^{X}\xi_{Y}$
relative motion from frame {X} to frame {Y}