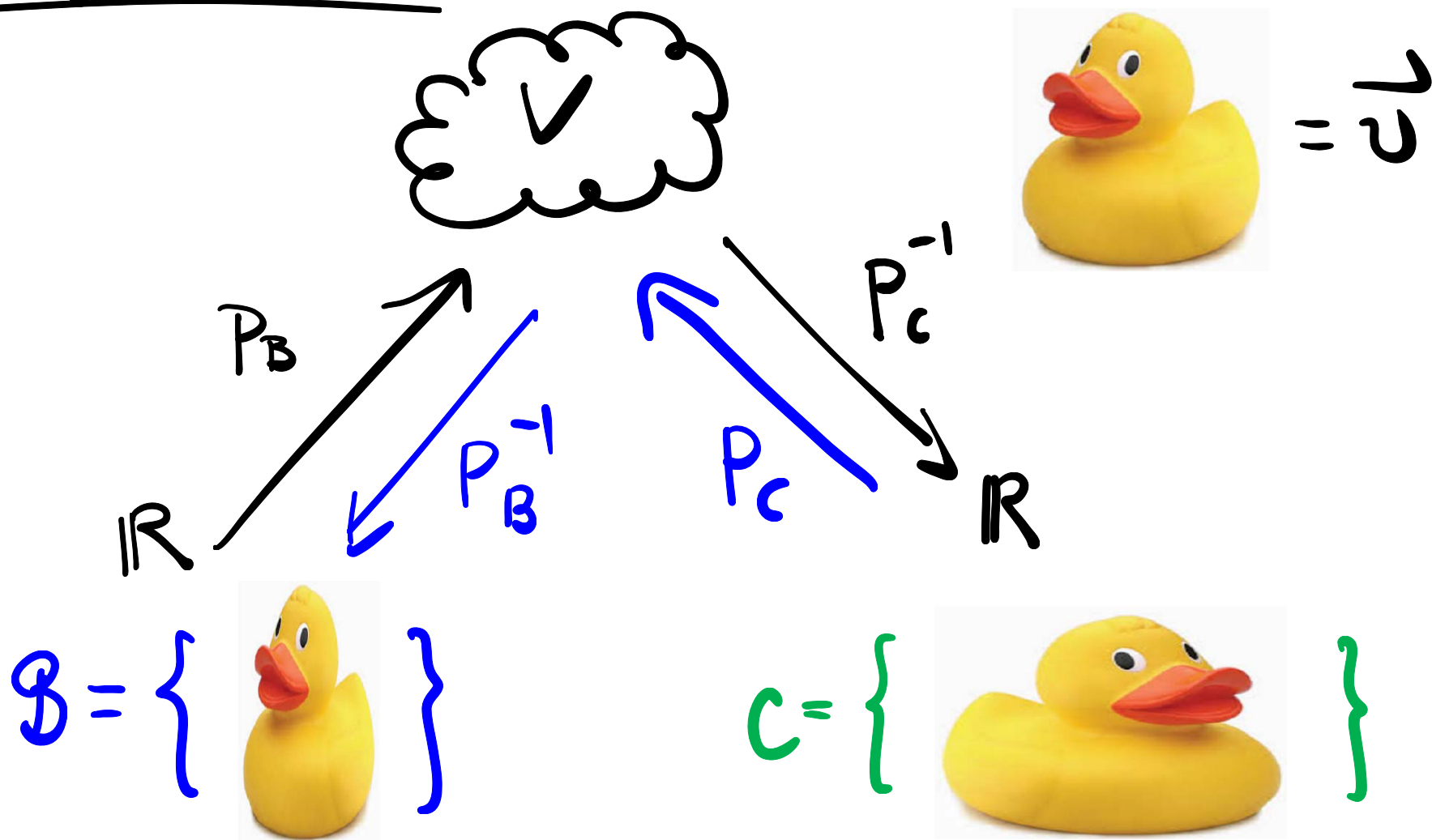


Change of coordinate



$$[\vec{v}]_{\mathcal{B}} = 2$$

$$[\vec{v}]_{\mathcal{C}} = -\frac{1}{2}$$

$$[\vec{v}]_{\mathcal{C}} = -\frac{1}{4} [\vec{v}]_{\mathcal{B}}$$

