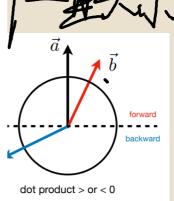
$$(1)\vec{a}\cdot\vec{b} = ||\vec{a}||\cdot||\vec{b}||\cdot asse$$

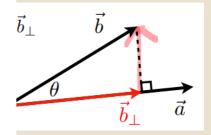
$$(3)$$
 $\cos 9 = \hat{a} \cdot \hat{b}$

不好 的对算两个网络之间的大角 使用公式(2)、(3) 便用公 $\vec{x} \times \vec{y} = +\vec{z}$

 $\vec{x} \times \vec{z} = -\vec{y}$

 $\vec{y} \times \vec{x} = -\vec{z}$ 的计算指 $\vec{y} \times \vec{z} = +\vec{x}$ 像倒分 $\vec{z} \times \vec{y} = -\vec{x}$ $\vec{z} \times \vec{x} = +\vec{y}$ (4) 计算量







叉积结果与两向量互相垂直

(3)
$$\vec{a} \times \vec{a} = \vec{b}$$

sin0=0,两向量夹角为0

$$(4)\overrightarrow{a}\times(k\overrightarrow{b})=k(\overrightarrow{a}\times\overrightarrow{b})$$

(1) 获得坐标轴朝向

$$\vec{x} \times \vec{y} = +\vec{z}$$

$$\vec{y} \times \vec{x} = -\vec{z}$$

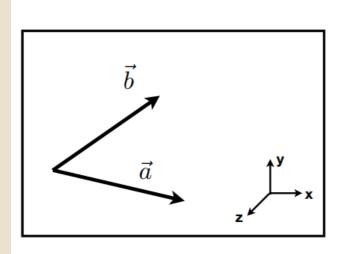
$$\vec{y} \times \vec{z} = +\vec{x}$$

$$\vec{z} \times \vec{y} = -\vec{x}$$

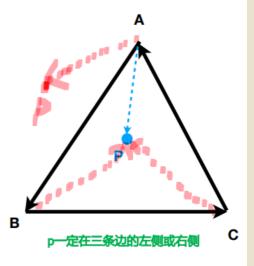
$$\vec{z} \times \vec{x} = +\vec{y}$$

$$\vec{x} \times \vec{z} = -\vec{y}$$

的新加州左右子的物







的分解向彭

· Any set of 3 vectors (in 3D) that

