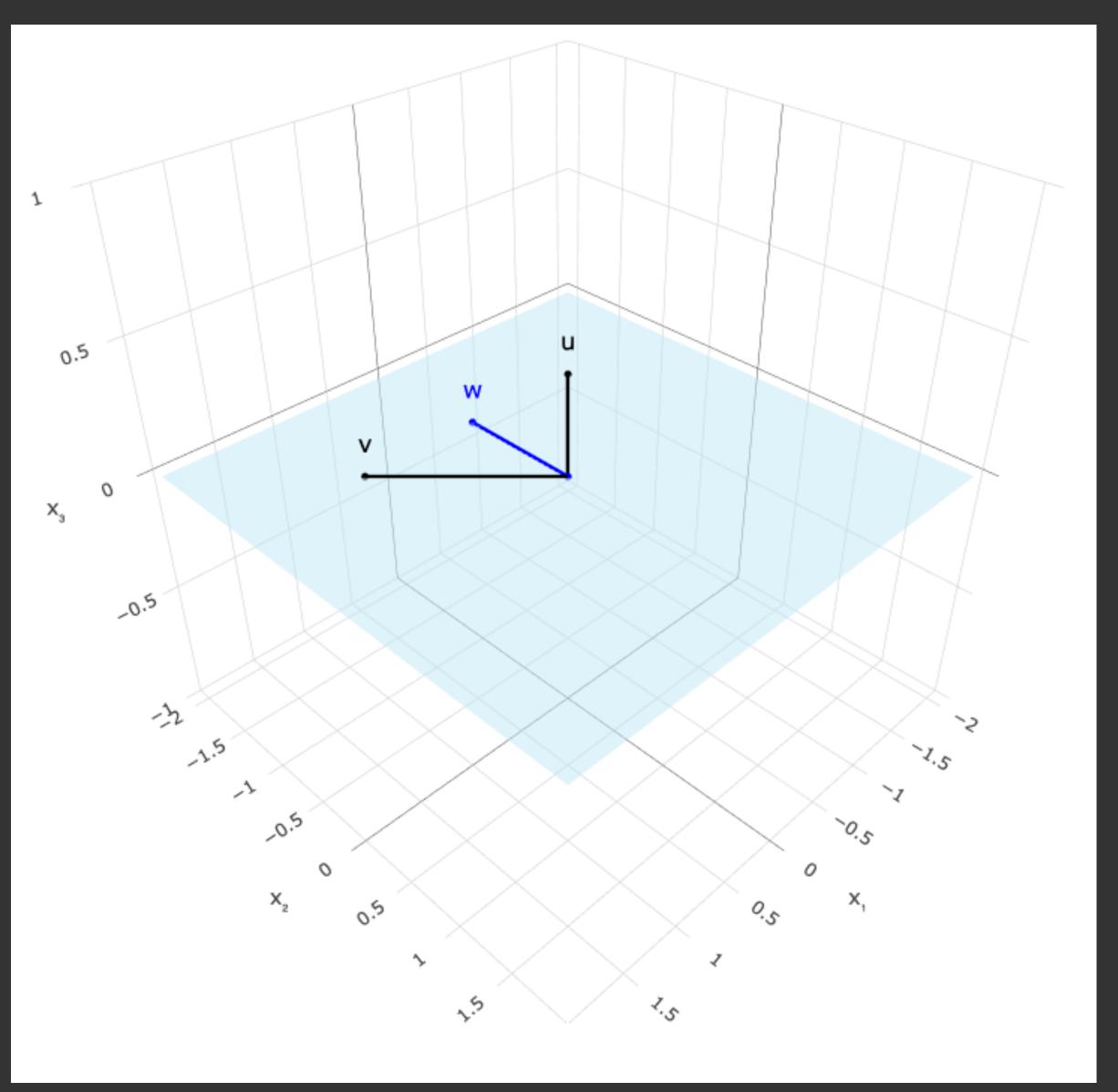
linear independence and spanning vectors

- \vec{w} is in $span(\vec{u}, \vec{v})$ or the plane spanned by (\vec{u}, \vec{v})
- \overrightarrow{w} is a linear combination of $(\overrightarrow{u}, \overrightarrow{v})$, so $(\overrightarrow{u}, \overrightarrow{v}, \overrightarrow{w})$ is not linear independent.



linear independence and spanning vectors

• Since \overrightarrow{w} is not in $span(\overrightarrow{u},\overrightarrow{v})$, $(\overrightarrow{u},\overrightarrow{v},\overrightarrow{w})$ is linear independent.

