

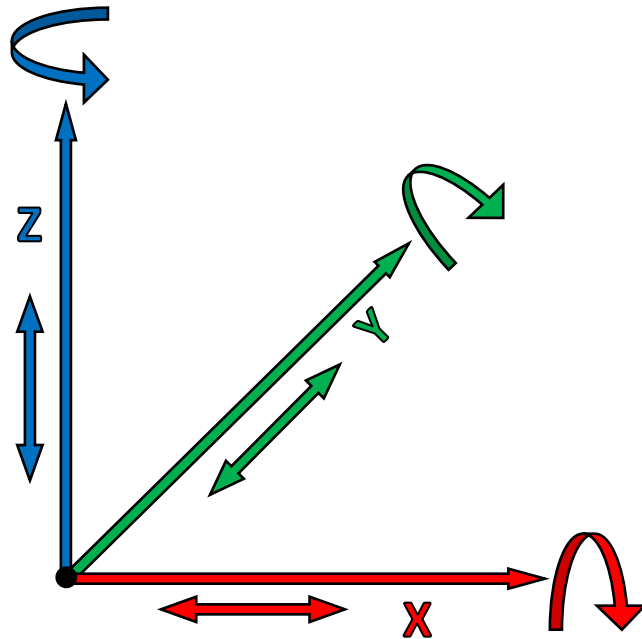
The 6 degrees of Freedom are:

3 - Rotations

- Rotation about the **Z** axis
- Rotation about the **Y** axis
- Rotation about the **X** axis

3 - Translations

- Translation along the **Z** axis
- Translation along the **Y** axis
- Translation along the **X** axis



Alignments in Calypso have:

- Rotation in Space** - Locks in 2 Rotations
- Planar Rotation** - Locks in 1 Rotation
- X Origin** - Locks in 1 Translation
- Y Origin** - Locks in 1 Translation
- Z Origin** - Locks in 1 Translation

Different feature types: Lock in what degrees of freedom?
Can be used for what in an Alignment?

Planes:	Locks up to 2 Rotations and 1 Translation Can be used for Rotation in Space, Planar Rotation, X, Y, or Z Origin
Cylinders and Cones:	Locks up to 2 Rotations and 2 Translation Can be used for Rotation in Space, Planar Rotation, X, Y, or Z Origin
3d Lines: (Axis)	Locks up to 2 Rotations and 2 Translation Can be used for Rotation in Space, Planar Rotation, X, Y, or Z Origin
2d Lines: (on Surface)	Locks 1 Rotation and 1 Translation Can be used for a Planar Rotation, X, Y, or Z Origin
Circles: (Point Reducible)	Locks up to 2 Translation Can be used for an X, Y, or Z Origin
Points:	Locks up 1 Translation (along normal vector) Can be used for an X, Y, or Z Origin

Please Note: Prior to Calypso 2020 **Rotation in Space** was called **Spatial Rotation**