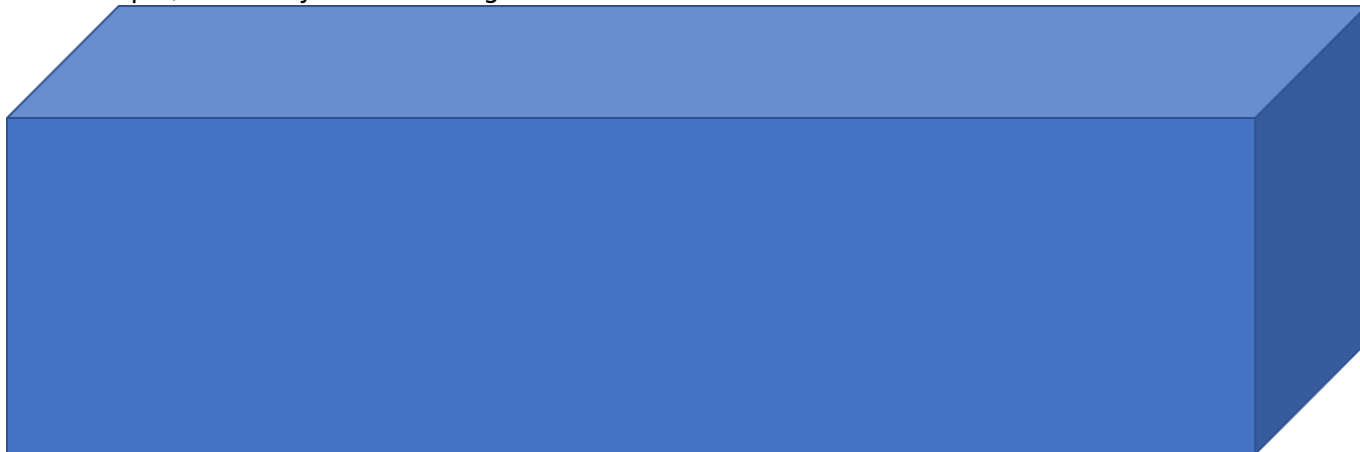


Cluster Size

To track a segment, a minimum of three noncolinear targets are required.

As long as the three targets are not in a straight line, the segment can be tracked. However, the distance between the targets will affect your tracking.

For example, assume you have a segment as shown below:

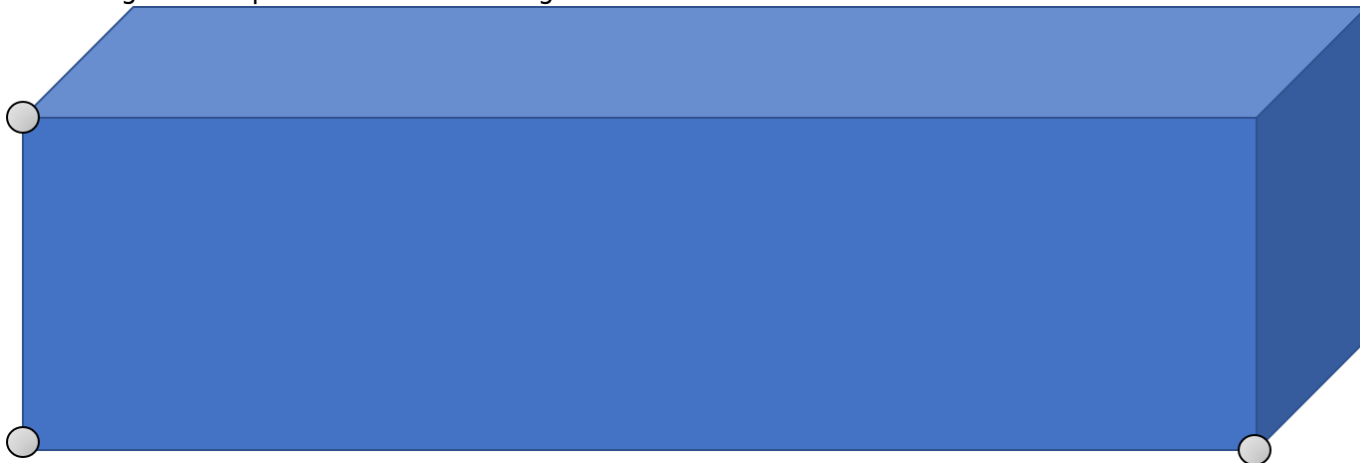


There are two options, you can either:

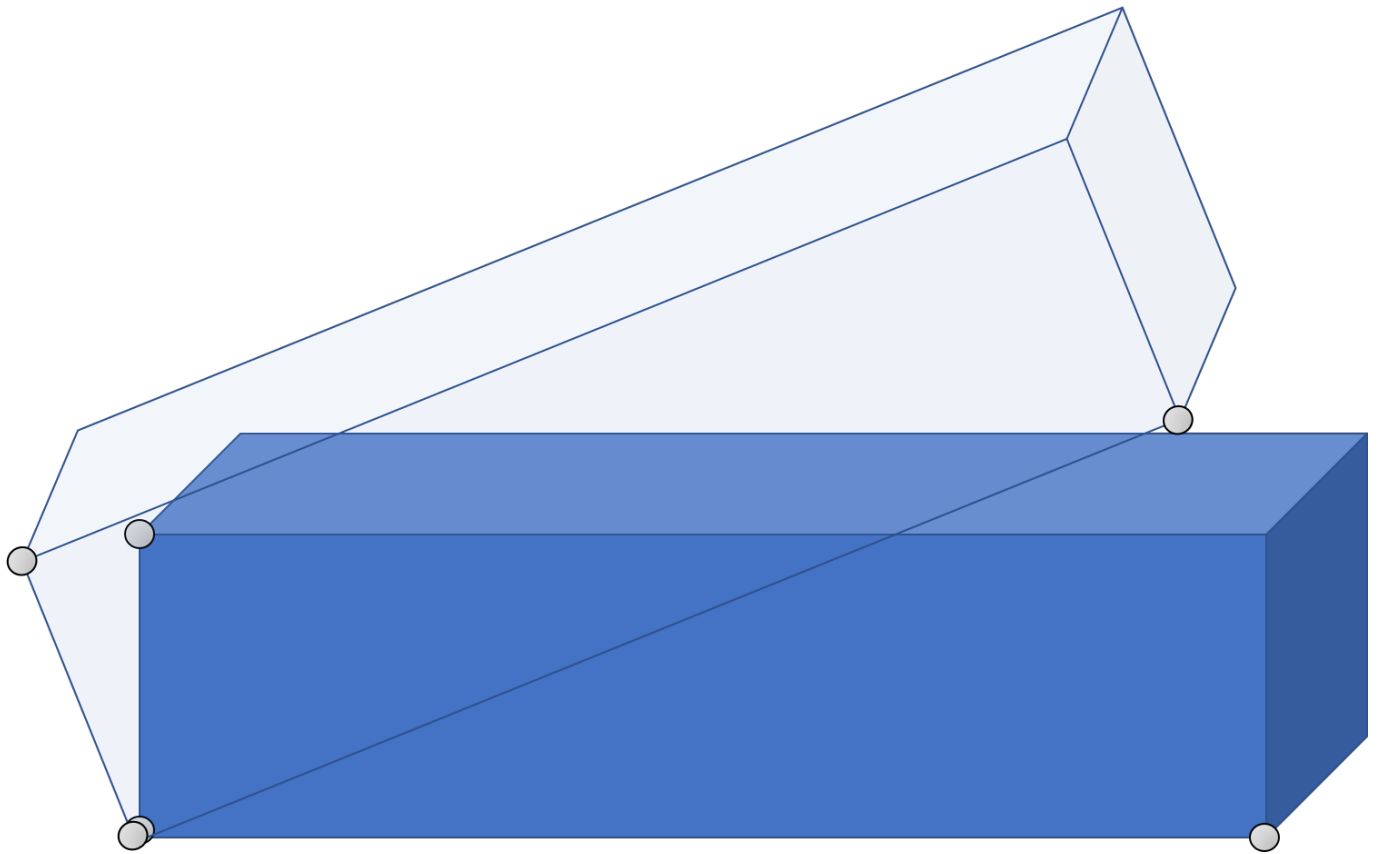
- put the targets spread out over the entire segment
- place the targets close together

Spread Out Tracking Targets

If the targets are spread out over the segment:

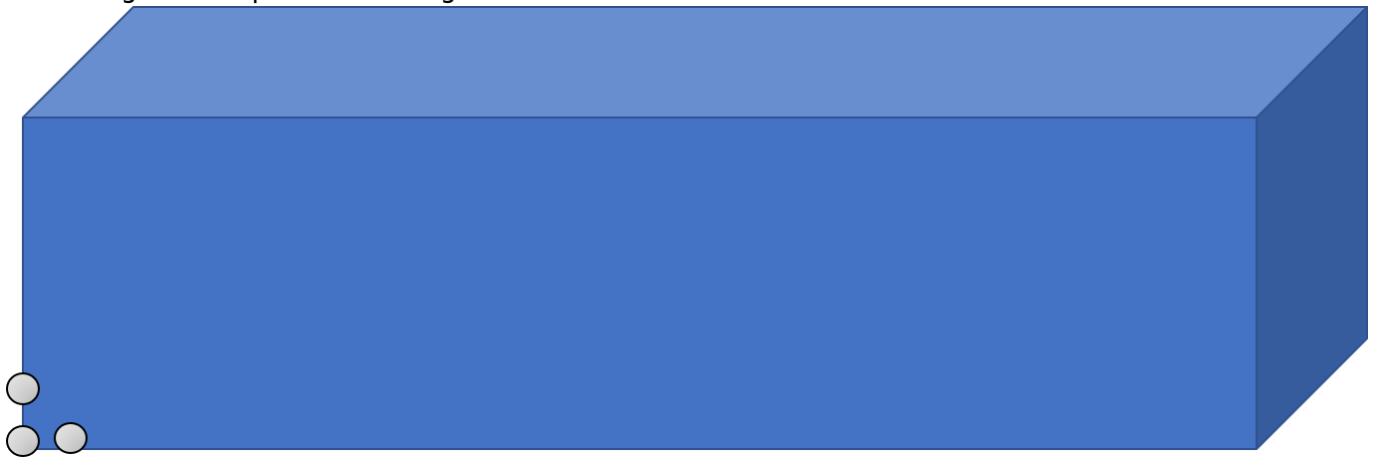


It takes a large amount of target movement to produce a large change in the position and orientation of the segment:

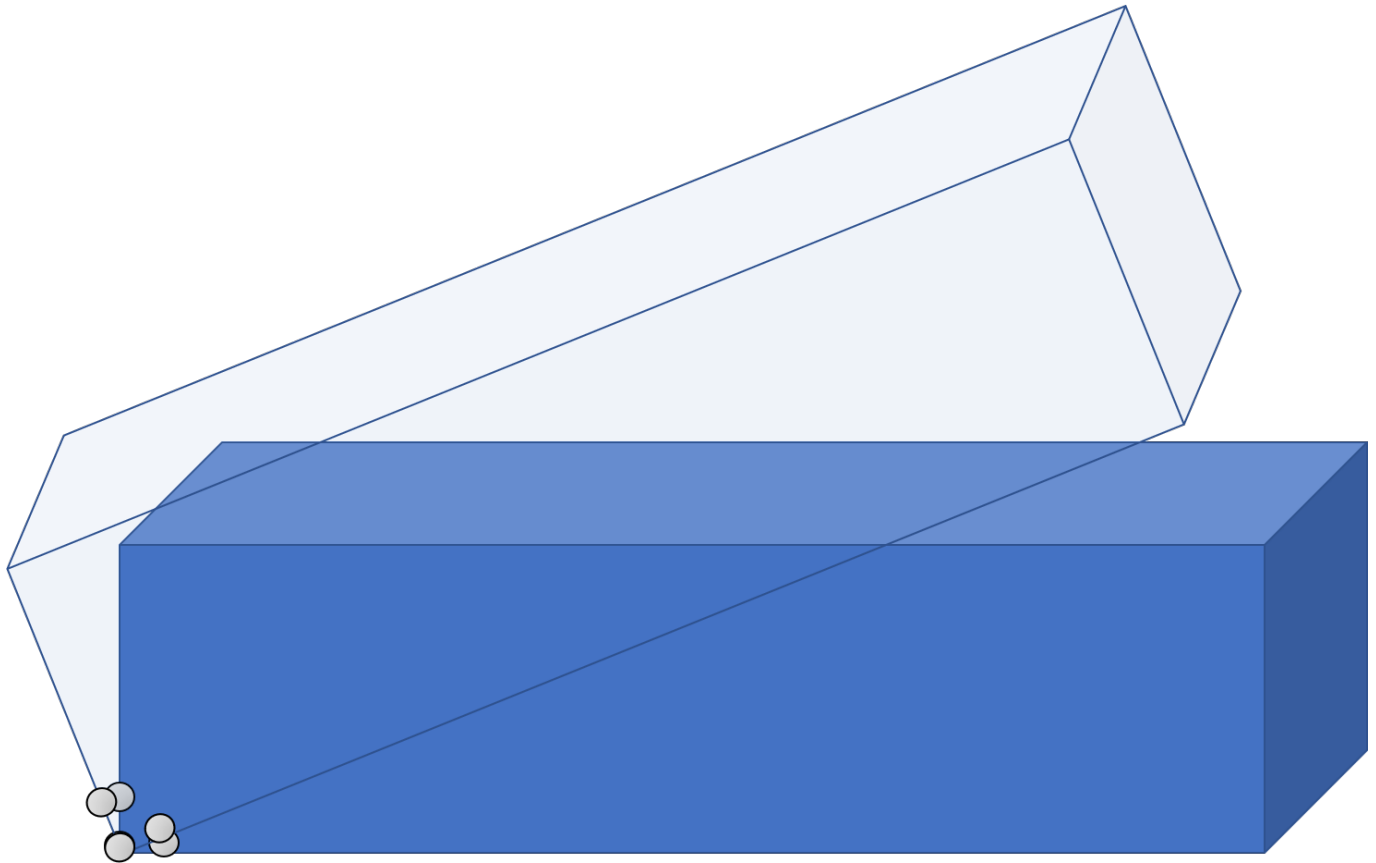


Close Together Tracking Targets

If the targets are spread close together:



It takes a small amount of target movement to produce a large change in the position and orientation of the segment:



Application

The closer the targets are together, the more susceptible the tracking will be to noise. So try to use best judgement when placing markers/defining clusters.

This is true for tracking any segment, but it tends to be most relevant when tracking the pelvis (using a small cluster on the lower back vs using the ASIS and PSIS) or tracking the foot (using a heel cluster vs heel and met targets).

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