8. Layout and Pinning
You can move **nodes** around the graph space by **left mouse dragging** them. The force layout rearranges the remaining nodes as you do so, unless you disable force layout with the **Force Layout** icon.
After you move a node it becomes pinned, meaning it is locked to its current xyz location in the graph space. You can pin or release selected nodes by clicking the Pin icon. To the upper right of the icon is a count of how many nodes in the graph are currently pinned.
Open the **Layouts** Panel from the toolbar. Layouts allow you to control the distribution data in your graph. By default, **Force Layout** is used.
Adjust the Link Strength slider to control how strongly the edges of the graph pull the nodes together.
Edge length can also be controlled by the Link Distance slider.
The Gravity slider controls how strongly all nodes are attracted to a central point.
The Charge slider adjusts how strongly nodes are attracted to each other - moving the slider to the left results in a repulsive force between the nodes.
Adjust how 3 dimensional the graph appears using the 3D - 2D slider. By moving to the right, the node layout is flattened to 2 dimensions, though still within 3D space.
Use the **Reset** button to reset the sliders to their default positions. Use the **Init** button to reinitialize the force layout. Note that any pinned **nodes** are unaffected.
Selecting **Parametric** layout allows the graph to be laid out according to node properties for axis X, Y, and Z. Alternatively, choose ‘PositionX/Y/Z’ to keep current position, or ‘none’ for zero. Select **None XYZ Force Layout** to use force layout for nodes that do not have the properties selected for each axis.
The Geometric layout allows selected nodes to be laid out according to a chosen geometry. Select a category and choose Line to arrange linearly. Use Order by Property to control the ordering of the nodes in the line by property.
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Grid arranges the selected nodes in a grid. For all the Geometric layouts, unselected nodes force arrange themselves around the selected nodes, unless Force Layout is disabled by the Force Layout icon.
Circle arranges the selected **nodes** in a circle. All these Geometric layouts will **Pin** the selected nodes, in addition to any **nodes** already pinned.
Cube arranges the selected nodes in a 3-dimensional grid.
Select **Force** to return the whole layout to the default force layout. Any pinned **nodes** are automatically released.
The Tree layout arranges nodes as a hierarchy along the X axis. The selected nodes form the base of the tree and unselected nodes follow level by level according to their connection to the selected nodes. Use the Axis slider to scale the layout.
The **Category** layout groups **nodes** along the X axis according to their **category**. Use the **Axis** slider to control the scale of the layout.