How to GraphXR

4. Link and Filter
Lines.csv lists the total number of lines and words spoken by each character in every episode of HBO’s Game of Thrones. Thanks to Jeffrey Lancaster for compiling this data (as well as the data in Characters.csv and Episodes.csv). Visit https://github.com/jeffreylancaster/game-of-thrones for more.
You might want to zoom out—at over 3,000 nodes, this is a much larger dataset than Characters.csv. At any time, you can open the Table panel to see the graph in spreadsheet format. View specific categories, relationships, or search by keywords. Notice the speaker property on csvImport_Lines?
The values in speaker should match the values in csvImport_Character’s characterName. We can use these properties to link our characters to their line counts for each episode. Go to the Transforms panel => Link table.
The Link transform enables creation of new edges belonging to a new or existing relationship. Let’s set **csvImport_Characters**-**spoke**-**csvImport.Lines** using **characterName** and **speaker**, then click run.
You’ll notice there are a number of **nodes** with no connections. These correspond to lines by characters like “King’s Landing Man #7” who didn’t make it into the Characters.csv source data. Let’s clean up these extraneous **nodes**. Before we do, though, let’s turn on Snapshots.
Go to the **Project** panel => **Settings** tab and enable **Show Snapshot**. Snapshots are a way of saving the current graph state in memory (rather than creating a view in the **Data** tab, which saves to the GraphXR server). This is useful for creating a history or library of graph states.
Click the plus sign to capture a Snapshot. Now we can get back to cleaning up our graph. Open the Filter panel.
Filters can be applied to any numerical property of an edge or node. By default, Force layout runs whenever you filter out graph elements, but let’s disable it for now.
Open the Node Properties dropdown to select a property. We’ll use _degree, a measure of how many connections a node has. This is an implicit property—it’s calculated by GraphXR, rather than coming from the source data.
Set the **Max** value for *degree* to 0 to filter out any **nodes** with one or more connections. The remaining **nodes** are the ones we want to eliminate.
We can select all visible nodes by pressing ctrl+a, clicking Select Fully Visible Nodes, or clicking cvlImport_Lines in the Legend. Then press delete or click Delete in the context menu.
Now clear your filters. What’s left are just the nodes we want. Let’s take another Snapshot, then import Episodes.csv.