

Educator manual:

The accompanying excel, “**template graaf input.xlsx**”, serves as the underlying database to create an interactive graph for your course. The graph shows the connections between the subjects.

The information that underlies this graph has three layers: the domains, the subjects and the lectures.

Tips to create your graph smoothly

- Before you begin, decide on where you will use capital letters, and where you will use lowercase letters.
- If the subjects have many connections, it may become hard to keep an overview with just the excel. Before adding to the excel, have a sketch of your graph ready.

Adding the domains

The domains are overarching subjects that all subjects fall into.

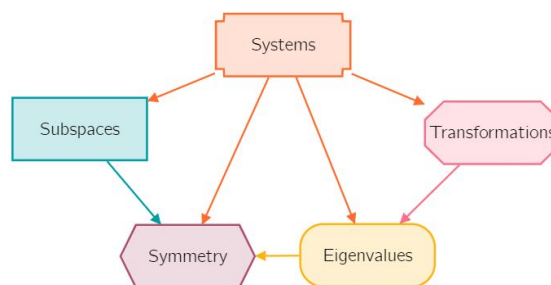
You can add up to 8 domains.

1. In the tab “**Domains**”, add the domains under “**domain**”.
2. For each domain, pick their layout and color. Choose these from the tab “Domain Layout”, where you will find an example of each.
3. Add both an “**SVG**” and its corresponding “**color**”, by copy-pasting it into the corresponding columns in the “**Domain**” tab.
4. Warning: do not add a svg and color value if there is no corresponding domain. This will break the graph!

Adding the connections between the domains:

1. Go to the tab “**D_Edges**”
2. Add each connection between the domains. You should be able to use a drop down menu and select the domains from there. For example, the following table results in this graph:

	A	B
1	from	to
2	Subspaces	Symmetry
3	Systems	Subspaces
4	Systems	Symmetry
5	Systems	Eigenvalues
6	Systems	Transformations
7	Transformations	Eigenvalues
8	Eigenvalues	Symmetry
9		
10		



Adding the subjects

1. Go to the tab “**Cells**”.
2. Add the subjects that your course had under “**name**”. Then, add the “**domain**” in the corresponding column. Again, you should be able to use a drop down menu.

Adding the connections between the subjects

Note that the connections between subjects have a direction. The arrows usually point from a subject that is foundational, to a subject that builds upon it.

1. Go to tab **"Edges"**.
2. In the column **"from"**, choose the subject that the arrow goes from. You should be able to choose the subject from a drop down menu.
3. In column **"to"**, select the subject where the arrow should be pointing to.

Adding the lectures

1. Go to tab **"lectures"**.
2. Each row represents a lecture.
3. Add the number of the lecture under column: **"number"**.
4. If you like, you can add the title of the lecture under **"title"**. This will not show up in the graph, and it is not required to do so.
5. Add the subjects of this lecture to the **"cells"** using the drop down menus.