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Number: 2

Project: Profondeur

#1. Note: The main idea here is to represent the multiple dimensions of the biological network (types of links between nodes) in separate views. The strategy is sort of similar to that of Entourage. The * distinct sub-networks would be linked.

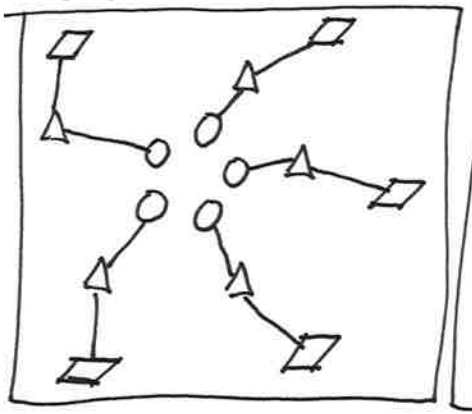
I think the number of types of nodes and links makes this strategy too complex and busy. ~~For example, you would have to show~~ At least it might be too complex to show all sub-network types. Maybe simplify with fewer.

Query Interface

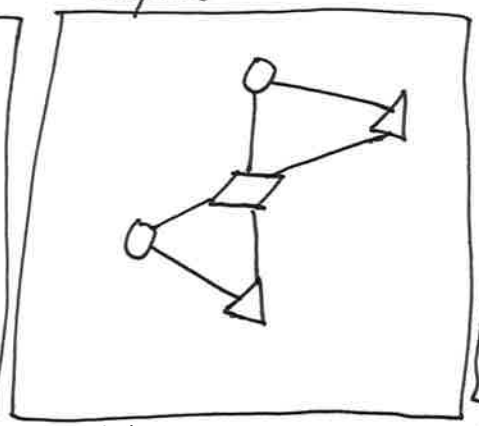
Ranked Paths or interest-based network subsets.

Network Dimension Views

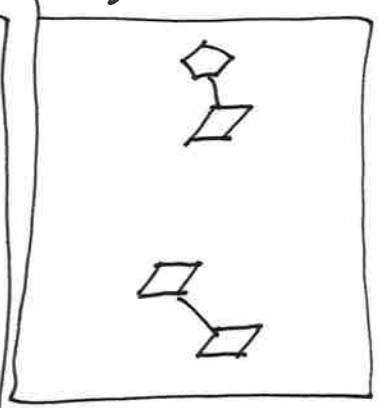
Code



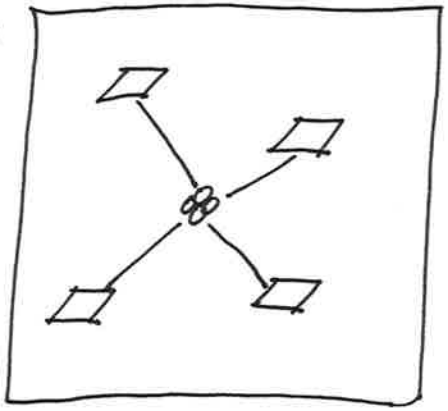
Expression



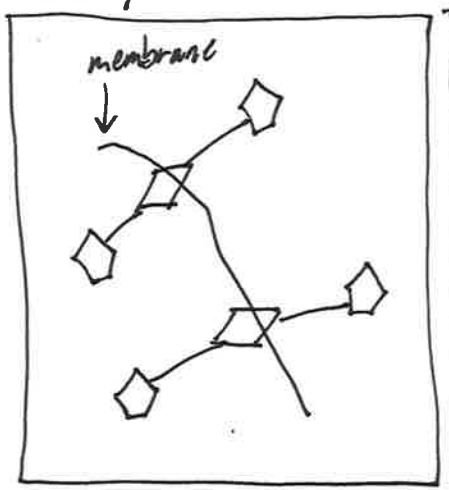
Regulation



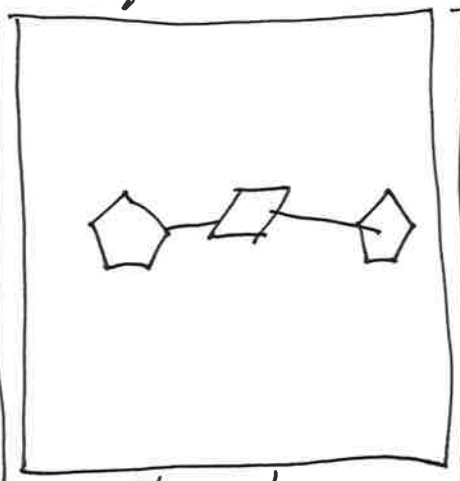
Cofactor



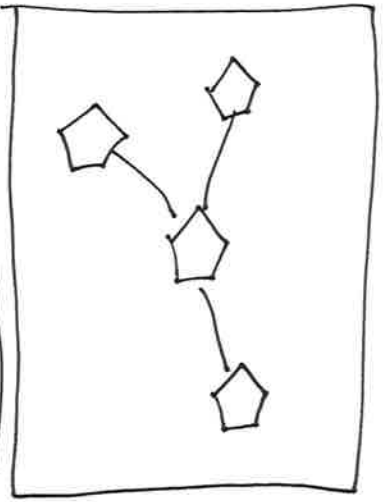
Transport



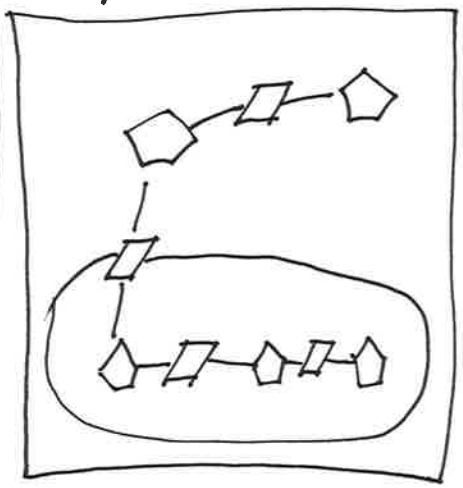
Catalysis



Reaction



Compartment



- Gene
- Transcript
- Protein
- Metabolite
- Cofactor

Example of relations that only make sense when considering multi dimensions simultaneously.

Note: Another problem is that it is difficult or confusing to try to separate some dimensions of the network. For example, transport makes little sense without compartment. Also genes relate to each other via interactions between their proteins.