

Implementing a multilayer framework for pathway data integration, analysis and visualization

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Pathway Resources

- Huge Amount of molecular pathways
- Lack of communication between data resources

Pathguide»the pathway resource list

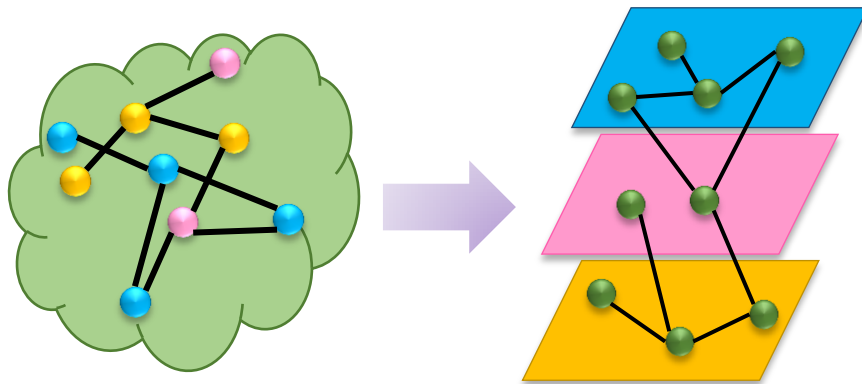


WIKIPATHWAYS
Pathways for the People



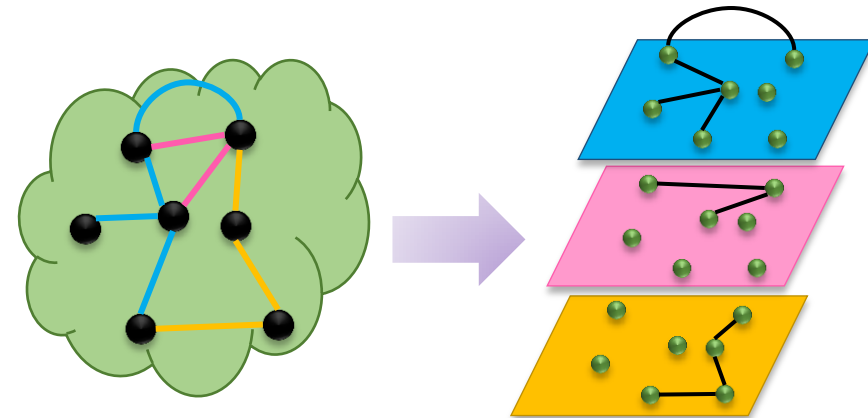
Multilayered Graphs

Node-coloured



Color = Type

Edge-coloured

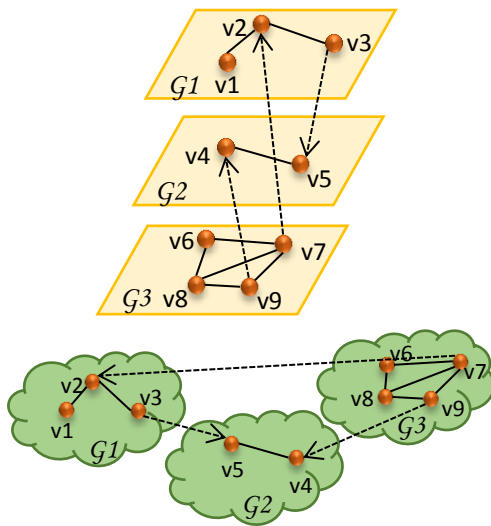


Color = Relationship

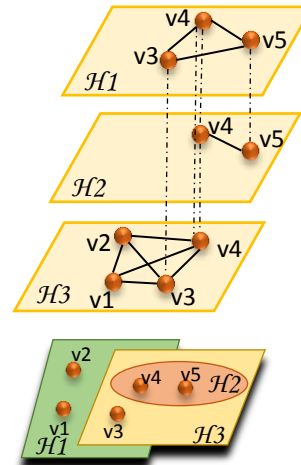
Multilayered Graphs

What are the types of multilayered graphs?

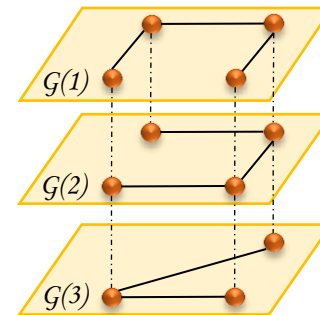
Interconnected/interacting



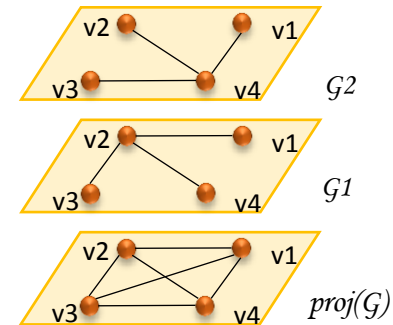
Hypernetworks



Multilevel

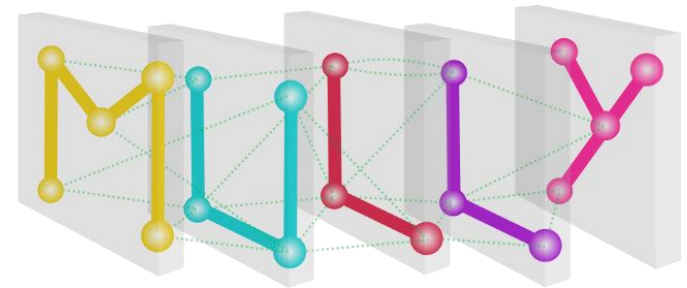


Multiplex

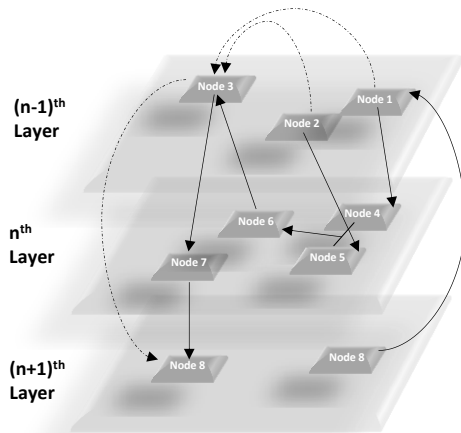


Multipath Project

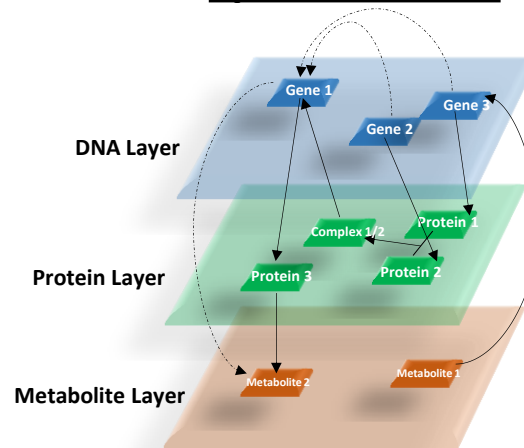
- How to map pathway knowledge to multilayer model?
- How is it implemented?
- What comes next?



Generic Model



Specific Model



Standard Operations

