

ProteinPrediction II

PPII Ex3 - Week 3

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specific annotations

- ▶ annotations are redundant (node and parents of annotation tree)
- ▶ use function `has_children` to prune annotations

P00441 HP:0003394,HP:0002314

P31749 HP:0000400,HP:0004325

P31213 HP:0008736

...

Graph data structure

- ▶ Graph object and node = *hpoterm* object
- ▶ Graph can (only) be instanced by hpo file
- ▶ Graph is represented by a python dictionary
- ▶ SubGraphs by hpo ids may be created

Note, that at subGraphs don't change childnodes

- ▶ Functions *untilnow*
 - ▶ +: get a subgraph which contains the nodes from both graphs
 - ▶ -: get a subgraph that contains only the nodes that had been in both graphs
 - ▶ in: str: item with id, else node in graph
 - ▶ getHpoTermById: get an term object by an ids (None if not in subgraph, although it might be in graph)
 - ▶ getHpoSubGraph: initialize a subgraph by leafes
 - ▶ getLeafs: get all leafs of the subgraph
 - ▶ getChildrens: get the children of a node