INPUT DATA

A NETWORKX GRAPH
OR
EXAMPLE: HUMAN PPI

calls

FUNC_LOAD_DATA.PY

GENERATE LAYOUTS
GENERATE_LAYOUT(G, DIM, LAYOUT_METHOD, DIMRED_METHOD, **MATRIX)

** MANDATORY IF LAYOUT_METHOD
IS SET TO 'FUNCTIONAL' OR 'PRECALCULATED'

part of

calls

CARTOGRAPHS.PY

TYPE: STRING
LOCAL | GLOBAL | IMPORTANCE | FUNCTIONAL | PRECALCULATED

LAYOUT_<LAYOUT_METHOD>_<DIMRED>(G, DIM, **PARAMETERS OF DIMRED METHOD)

PERFORMS LAYOUT CALCULATIONS
BASED ON DIMENSIONALITY REDUCTION METHOD AND
DEFINED POSITIONING METHOD IN SPACE

** OPTIONAL; DEPEND ON DIMENSIONALITY REDUCTION METHOD

calls

part of

FUNC_CALCULATIONS.PY

FUNC_EMBED_PLOT.PY

EMBEDDING FUNCTIONS
POSITIONING FUNCTIONS

FUNC_EMBED_PLOT.PY

TRACE FUNCTIONS
PLOT FUNCTIONS

FUNC_VISUAL_PROPERTIES.PY

part of

calls

CREATE VISUALIZATIONS
PLOT_2DFIGURE(G, POSG, *D_FEATURES, *D_COLORS, *D_SIZE, *D_LEGEND, PATH, FNAME, *SCHEME, **WITH_EDGES)
PLOT_3DFIGURE(G, POSG, *D_FEATURES, *D_COLORS, *D_SIZE, *D_LEGEND, PATH, FNAME, *SCHEME, **WITH_EDGES)

* OPTIONAL ; DICTIONARIES WITH NODEIDS AND VALUES FOR HOVER INFORMATION, NODE COLORS, NODE SIZES, LEGEND, SCHEME
** OPTIONAL ; BOOLEAN - TRUE / FALSE

EXPORT TABLE FOR VRNETZER
EXPORT_TO_VR

part of

FUNC_EXPORTVR.PY