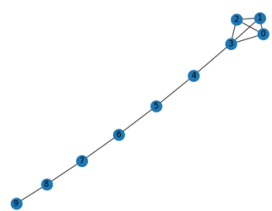


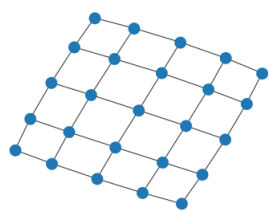
# Gallery

General-purpose and introductory examples for NetworkX. The [tutorial](#) introduces conventions and basic graph manipulations.

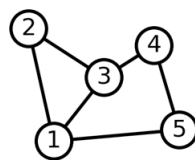
## Basic



Properties

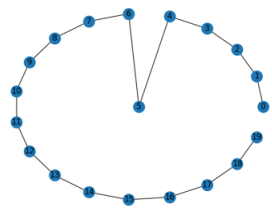


Read and write  
graphs.

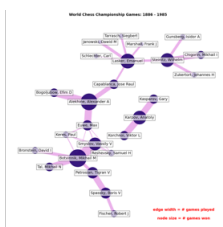


Simple graph

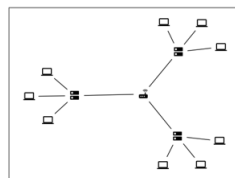
## Drawing



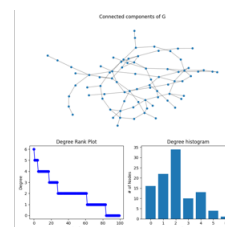
Custom Node



Chess Masters



Custom node icons



Degree Analysis

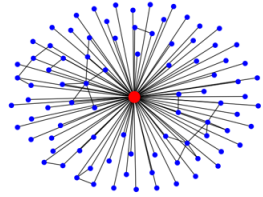


Directed Graph

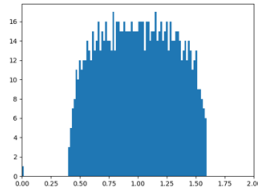
## Position



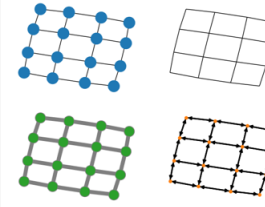
Edge Colormap



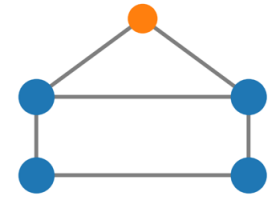
Ego Graph



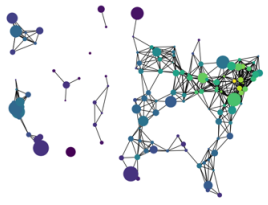
Eigenvalues



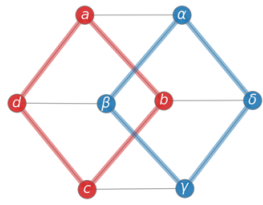
Four Grids



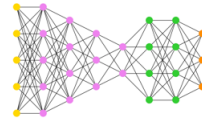
House With Colors



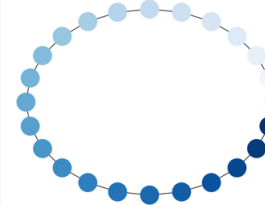
Knuth Miles



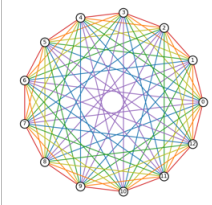
Labels And Colors



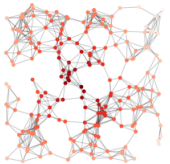
Multipartite Layout



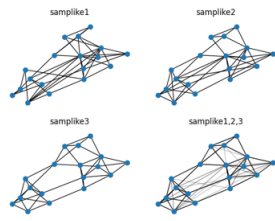
Node Colormap



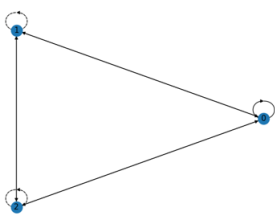
Rainbow Coloring



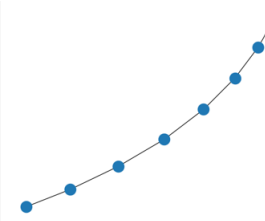
Random Geometric Graph



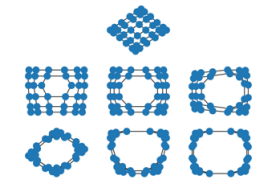
Sampson



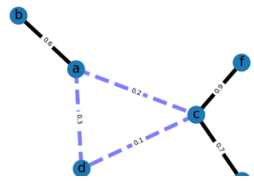
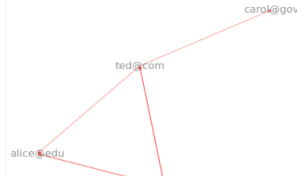
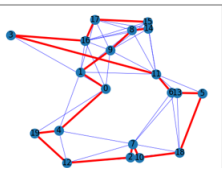
Self-loops



Simple Path



Spectral Embedding



Traveling Salesman  
Problem

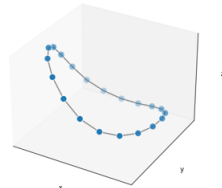
Unix Email

Weighted Graph

## 3D Drawing



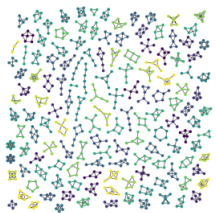
Mayavi2



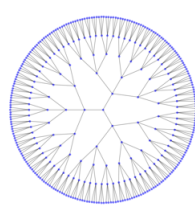
Basic matplotlib

## Graphviz Layout

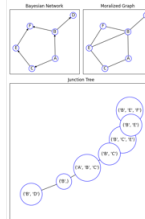
Examples using Graphviz layouts with `nx_py1ab` for drawing. These examples need Graphviz and [PyGraphviz](#).



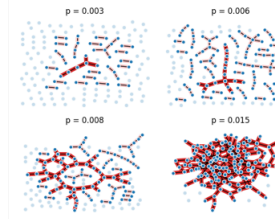
Atlas



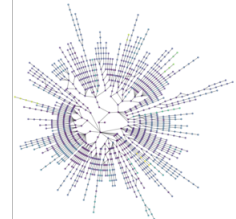
Circular Tree



Decomposition



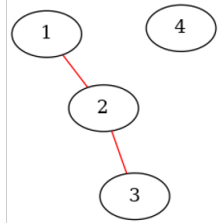
Giant Component



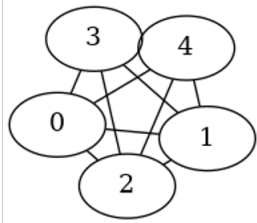
Lanl Routes

# Graphviz Drawing

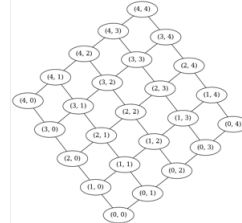
Examples using Graphviz for layout and drawing via [nx\\_agraph](#). These examples need Graphviz and [PyGraphviz](#).



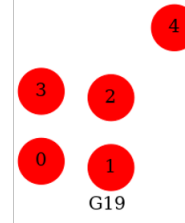
Attributes



Conversion

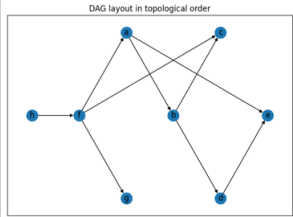


2D Grid

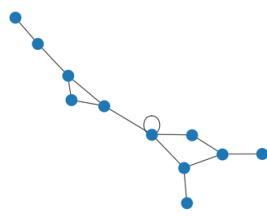


Atlas

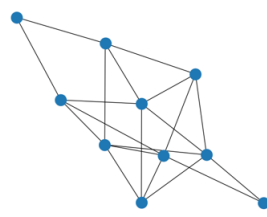
## Graph



DAG - Topological  
Layout



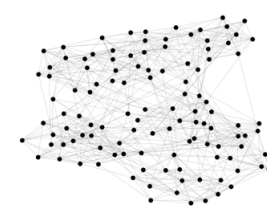
Degree Sequence



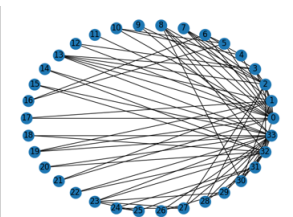
Erdos Renyi



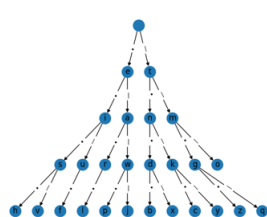
Expected Degree  
Sequence



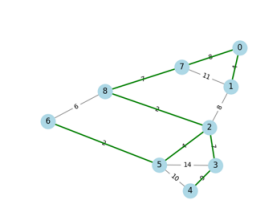
Football



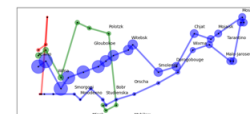
Karate Club



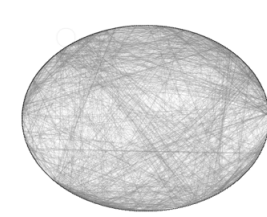
Morse Trie



Minimum Spanning



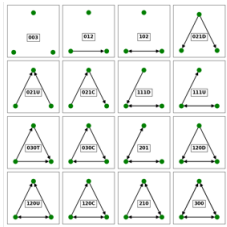
Napoleon Russian



Roget

Tree

Campaign

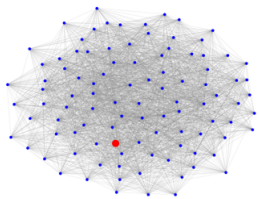


Triads



Words/Ladder Graph

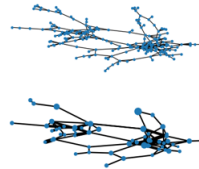
## Algorithms



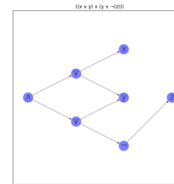
Beam Search



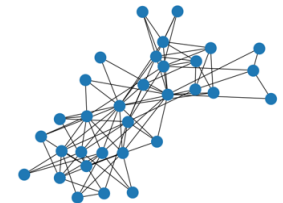
Betweenness  
Centrality



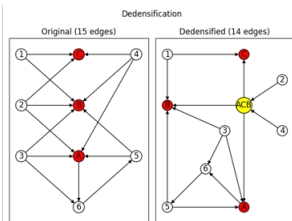
Blockmodel



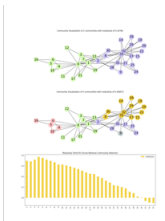
Circuits



Davis Club



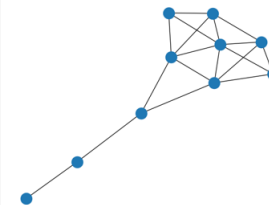
Dedensification



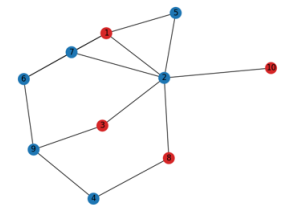
Community  
Detection using  
Girvan-Newman



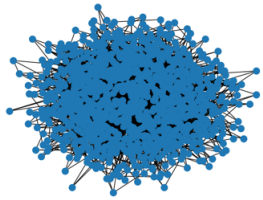
Iterated Dynamical  
Systems



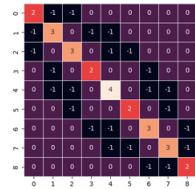
Krackhardt Centrality



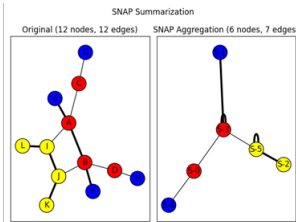
Maximum  
Independent Set



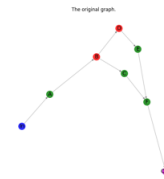
Parallel Betweenness



Reverse Cuthill--  
McKee



SNAP Graph  
Summary



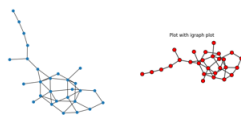
Subgraphs

## External libraries

Examples of using NetworkX with external libraries.



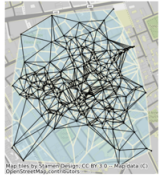
Javascript



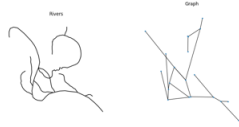
igraph

## Geospatial

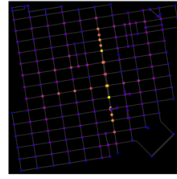
The following geospatial examples showcase different ways of performing network analyses using packages within the geospatial Python ecosystem. Example spatial files are stored directly in this directory. See the [extended description](#) for more details.



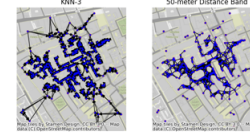
Delaunay graphs  
from geographic  
points



Graphs from a set of  
lines



OpenStreetMap with  
OSMnx

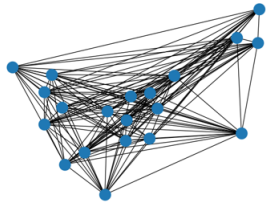


Graphs from  
geographic points

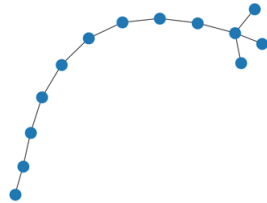


Graphs from  
Polygons

## Subclass



Antigraph



Print Graph

📄 Download all examples in Python source code: `auto_examples_python.zip`

📄 Download all examples in Jupyter notebooks: `auto_examples_jupyter.zip`

Gallery generated by Sphinx-Gallery