



CMPS 184 Class presentation: Networkx

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Networkx

- ▶ NetworkX is a Python package for the creation, manipulation, and study of the structure, dynamics, and functions of complex networks.
- ▶ Features
 - ▶ Data structures for graphs, digraphs, and multigraphs
 - ▶ Many standard graph algorithms
 - ▶ Network structure and analysis measures
 - ▶ Generators for classic graphs, random graphs, and synthetic networks
 - ▶ Nodes can be "anything" (e.g., text, images, XML records)
 - ▶ Edges can hold arbitrary data (e.g., weights, time-series)
 - ▶ Open source [3-clause BSD license](#)
 - ▶ Well tested with over 90% code coverage
 - ▶ Additional benefits from Python include fast prototyping, easy to teach, and multi-platform

References

- ▶ <https://networkx.github.io/documentation/stable/tutorial.html>
- ▶ Chapter 3 of the book “Web Scraping with Python” by Mitchell.
- ▶ Information of Networkx: <https://networkx.github.io/>