**What is SNAP?**

- **Stanford Network Analysis Platform (SNAP)** is a general purpose, high-performance system for analysis and manipulation of large networks
  - [http://snap.stanford.edu](http://snap.stanford.edu)
  - Scales to massive networks with hundreds of millions of nodes and billions of edges

- **SNAP software**
  - Snap.py for Python, SNAP C++

- **SNAP datasets**
  - Over 70 network datasets
SNAP Tutorial: Content

- Motivation
- Introduction to SNAP
- Snap.py for Python
- Network analytics
- SNAP network datasets
- SNAP for C++
- Hands-on exercise

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Slides available at:
http://snap.stanford.edu/proj/snap-www
Why Networks?

Networks are a general language for describing complex systems.
Friends & Family
Society
Media & Information
World economy
Roads
Human cell
Networks!
SNAP Resources

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WWW-15, Florence, Italy
May, 2015
Snap.py Resources

- **Prebuilt packages** available for Mac OS X, Windows, Linux
  

- **Snap.py documentation:**
  
  

- **SNAP user mailing list**
  
  [http://groups.google.com/group/snap-discuss](http://groups.google.com/group/snap-discuss)

- **Developer resources**
  
  - Software available as open source under BSD license
  
  - GitHub repository
    
    [https://github.com/snap-stanford/snap-python](https://github.com/snap-stanford/snap-python)
SNAP C++ Resources

- **Source code** available for Mac OS X, Windows, Linux

- **SNAP documentation**
  - Quick Introduction, User Reference Manual
  - Source code, see tutorials

- **SNAP user mailing list**
  [http://groups.google.com/group/snap-discuss](http://groups.google.com/group/snap-discuss)

- **Developer resources**
  - Software available as open source under BSD license
  - GitHub repository
    [https://github.com/snap-stanford/snap](https://github.com/snap-stanford/snap)
  - SNAP C++ Programming Guide
Collection of over 70 social network datasets: http://snap.stanford.edu/data

Mailing list: http://groups.google.com/group/snap-datasets

- **Social networks**: online social networks, edges represent interactions between people
- **Twitter and Memetracker**: Memetracker phrases, links and 467 million Tweets
- **Citation networks**: nodes represent papers, edges represent citations
- **Collaboration networks**: nodes represent scientists, edges represent collaborations (co-authoring a paper)
- **Amazon networks**: nodes represent products and edges link commonly co-purchased products