

# Chapter 1: What is a Network?

```
In [ ]: # Configure plotting in Jupyter
from matplotlib import pyplot as plt
%matplotlib inline
plt.rcParams.update({
    'figure.figsize': (7.5, 7.5),
    'axes.spines.right': False,
    'axes.spines.left': False,
    'axes.spines.top': False,
    'axes.spines.bottom': False})
```

## Creating your first network

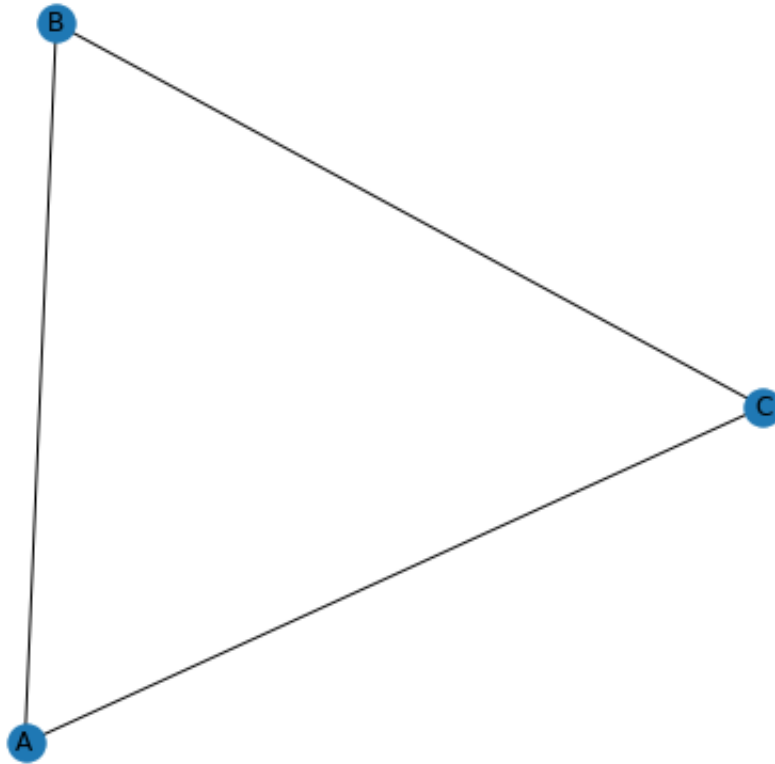
```
In [ ]: import networkx as nx

G = nx.Graph()

G.add_node('A')
G.add_nodes_from(['B', 'C'])

G.add_edge('A', 'B')
G.add_edges_from([('B', 'C'), ('A', 'C')])

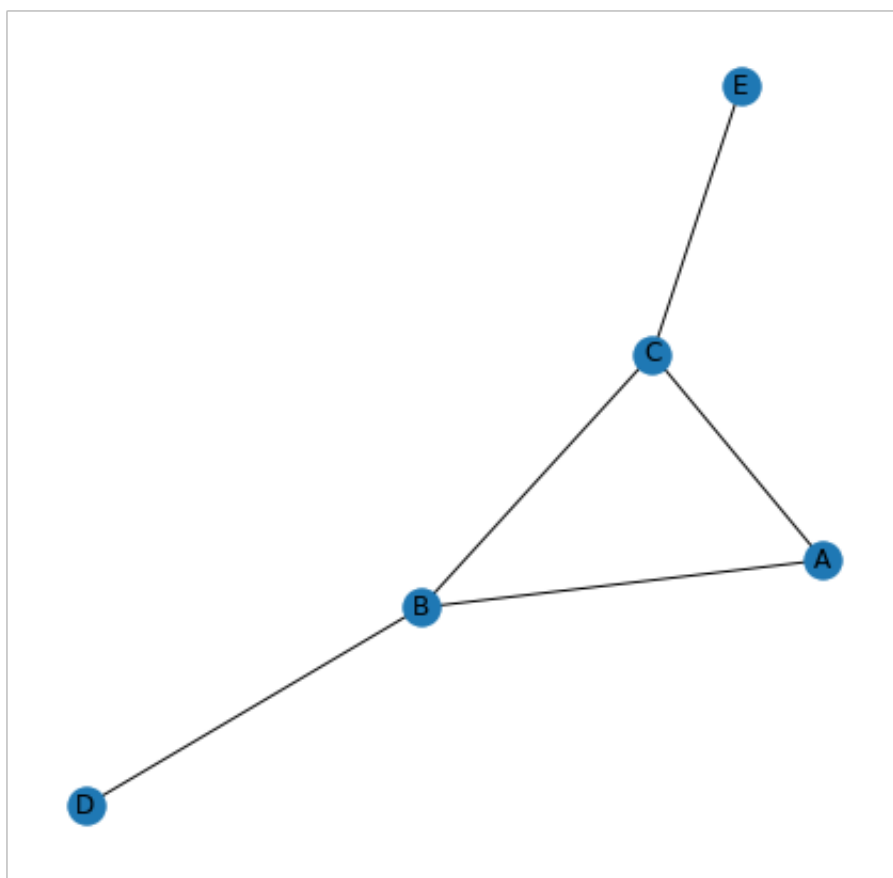
plt.figure(figsize=(7.5, 7.5))
nx.draw_networkx(G)
```



```
In [ ]: # Seed random number generator
import random
from numpy import random as nprand
seed = hash("Network Science in Python") % 2**32
nprand.seed(seed)
random.seed(seed)
```

Add several nodes and edges at the same time

```
In [ ]: G.add_edges_from([('B', 'D'), ('C', 'E')])
nx.draw_networkx(G)
```



In [ ]: