











Terminology of networks

- Topology
- Link or route
- Place or node
- Topological distance
- Diameter
- Accessibility
- Connectivity: connectivity index









Graph Theory n = # nodes

- Planar graph/Non-planar
- Symmetric/ Non-symmetric (one-way, two-way)
- Symmetric planar maximum # connections is: 3(n - 2)
- Symmetric non-planar maximum # connections is: [n (n – 1)] /2
- Non-symmetric non-planar maximum # connections is: n (n – 1)
- Non-symmetric planar maximum # connections is: 6 (n 2)











































Network maps

- Terminology from topology: node, link, directed, planar
- Simple measures possible e.g. diameter, connectivity index
- Tree networks have orders, e.g. Strahler and measures e.g. branching ratio
- Algorithms can compute shortest path
- Isochrones