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## Network Analysis: Practical Applications using igraph in R

Our world is full of networks. Network analysis is a powerful way to glean insights from how people, places, things, systems, and ideas are interconnected. In this tutorial I will discuss the basic building blocks of a network graph and give real world examples of applied graph analysis. I will create a simple graph network and explore the concepts of vertex importance and influence, relationships between vertices, network patterns and structure, network substructures, as well as, network randomization and assortativity. These concepts will be demonstrated using the igraph package in R.