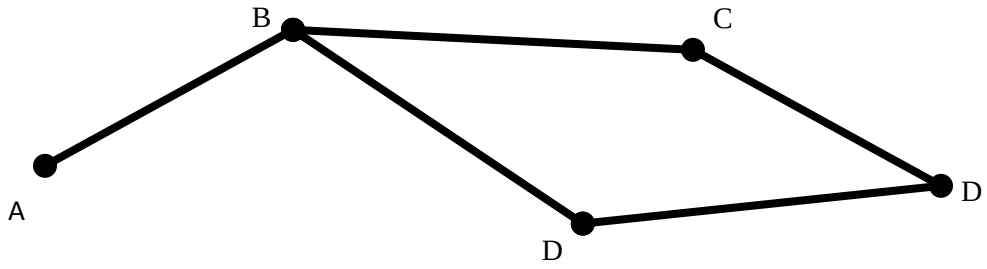
Unit 2: Graphs and Graph Theory
2.03 Types of Graphs

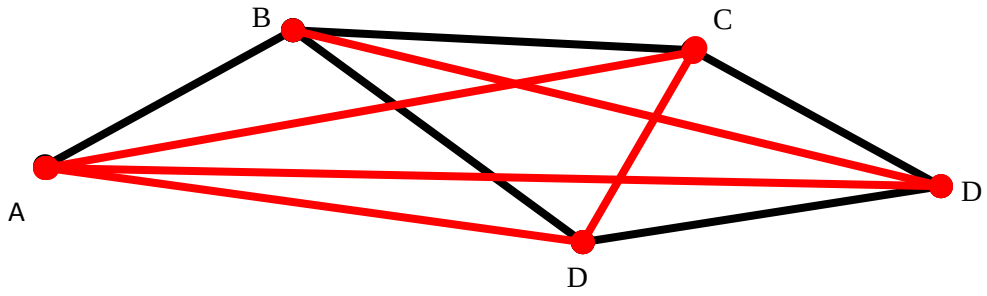
There are various types of graph. Three that we will look at today are:

- Connected Graphs
- Complete Graphs
- Complement Graphs

A graph is said to be **CONNECTED** if each vertex is joined (connected) to every other vertex by an edge or a series of edges.



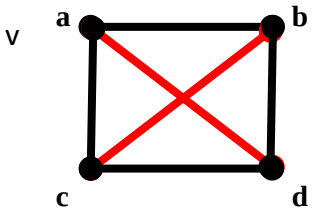
A graph is said to be **COMPLETE** if there is an edge between each distinct pair of vertices.



The **COMPLEMENT** of a graph is the graph that completes the original when superimposed over it. (layered over it).

Example: Give the complementary graph for:

G:



$V = \{a, b, c, d\} \leftarrow same\ as\ \boldsymbol{G}$

$\boldsymbol{C} = \{ad, bc\} \leftarrow the\ missing\ edges from\ \boldsymbol{G}$

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