

Connectedness of a Directed Graph

When dealing with directed graphs, we define two kinds of connectedness, *strong* and *weak*. Strong connectedness of a directed graph is defined as follows:

Definition (Strong Connectedness of a Directed Graph) A directed graph $G = (\mathcal{V}, \mathcal{E})$ is *strongly connected* if there is a path in G between every pair of vertices in \mathcal{V} .

For example, Figure shows the directed graph $G_a = (\mathcal{V}, \mathcal{E})$ given by

$$\begin{aligned}\mathcal{V} &= \{a, b, c, d, e, f\} \\ \mathcal{E} &= \{(a, b), (b, c), (b, c), (c, a), (d, e), (e, f), (f, d), \}\end{aligned}$$

Notice that the graph G_a is not connected! E.g., there is no path from any of the vertices in $\{d, e, f\}$ to any of the vertices in $\{a, b, c\}$. Nevertheless, the graph "looks" connected in the sense that it is not made of up of separate parts in the way that the graph G_b in Figure is.

This idea of "looking" connected is what *weak connectedness* represents. To define weak connectedness, we need to introduce first the notion of the undirected graph that underlies a directed graph: Consider a directed graph $G = (\mathcal{V}, \mathcal{E})$. The underlying undirected graph is the graph $\tilde{G} = (\mathcal{V}, \tilde{\mathcal{E}})$ where $\tilde{\mathcal{E}}$ represents the set of undirected edges that is obtained by removing the arrowheads from the directed edges in G :

$$\tilde{\mathcal{E}} = \{ \{u, v\} : (u, v) \in \mathcal{E} \vee (v, u) \in \mathcal{E} \}.$$

Directed Paths

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