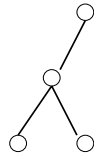


# Edge Classification for DFS

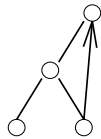
What about the other edges in the graph? Where can they go on a search?

Every edge is either:

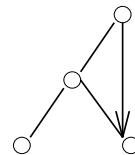
1. A Tree Edge



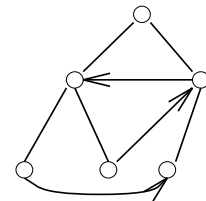
2. A Back Edge  
to an ancestor



3. A Forward Edge  
to a descendant



4. A Cross Edge  
to a different node



On any particular DFS or BFS of a directed or undirected graph, each edge gets classified as one of the above.