Graph theory

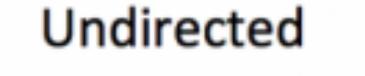
Degree:

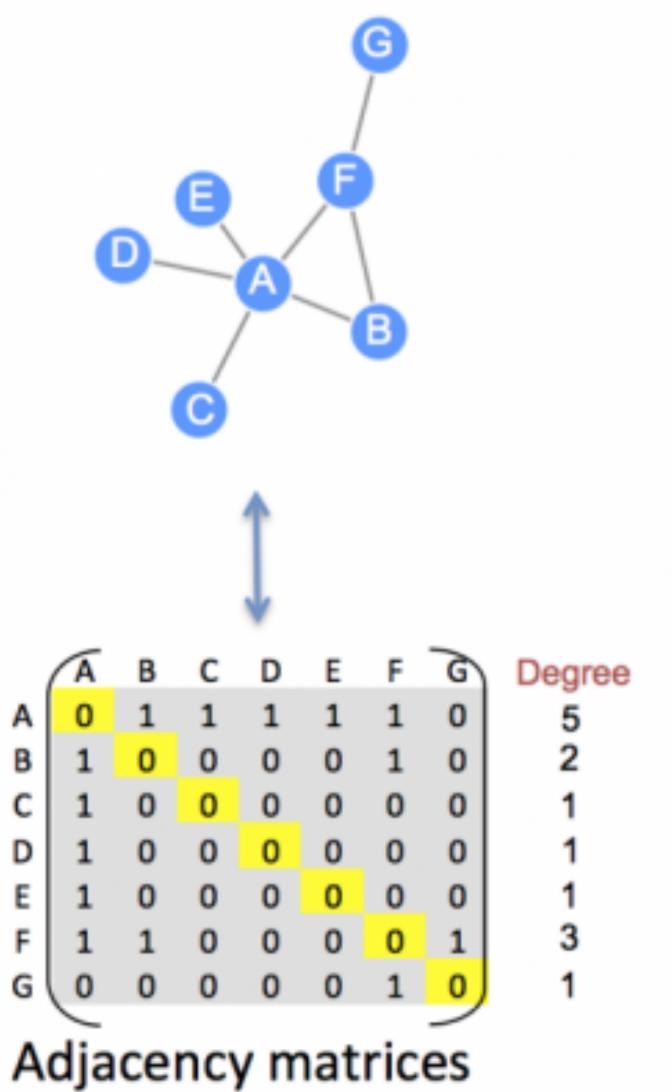
to a vertex/node

directed graphs:

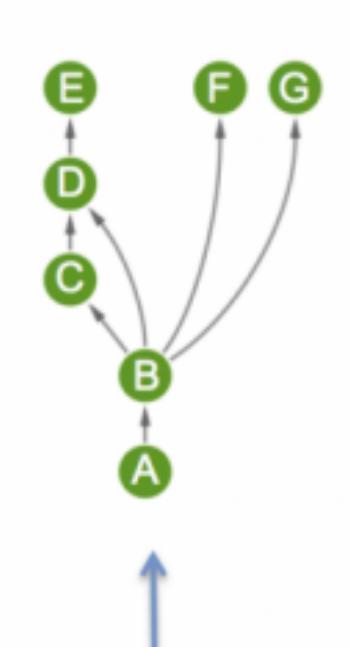
in-degree, out-degree

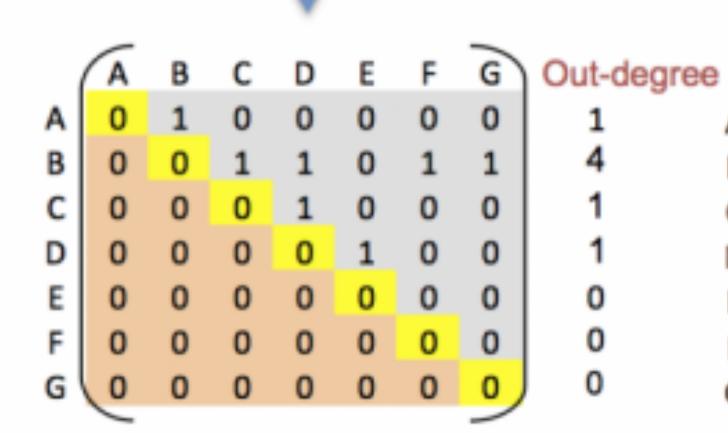
How many edges connect

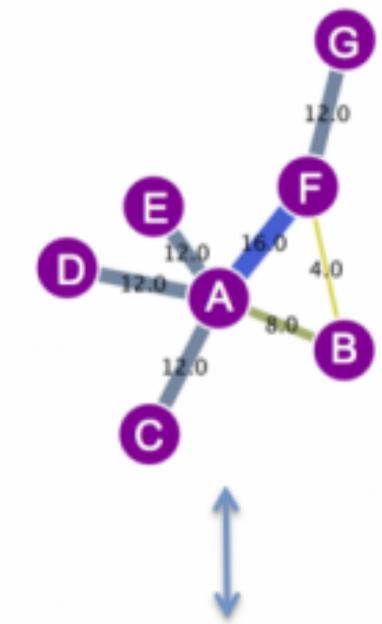




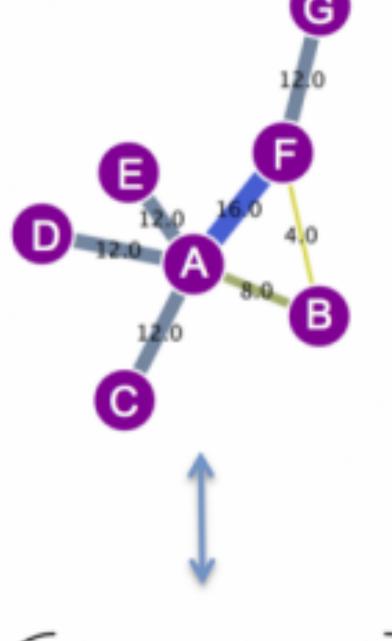
Directed

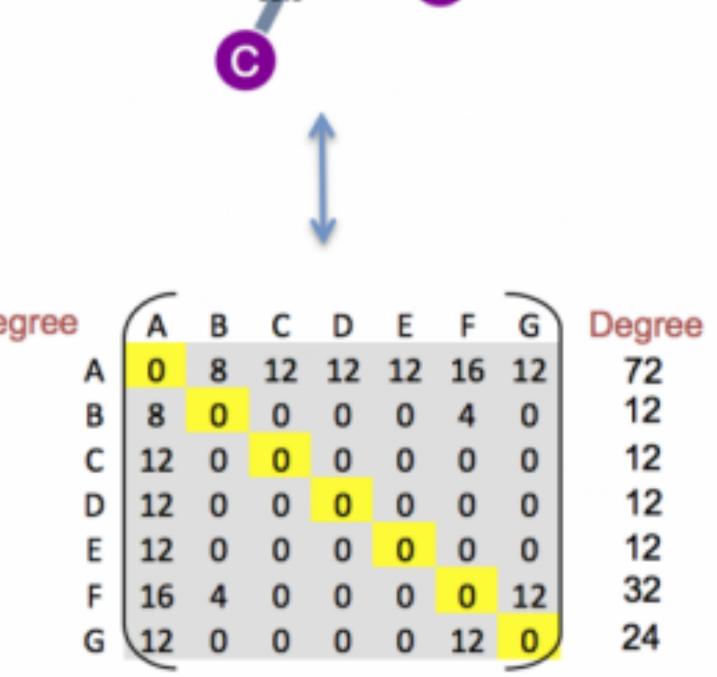






Weighted

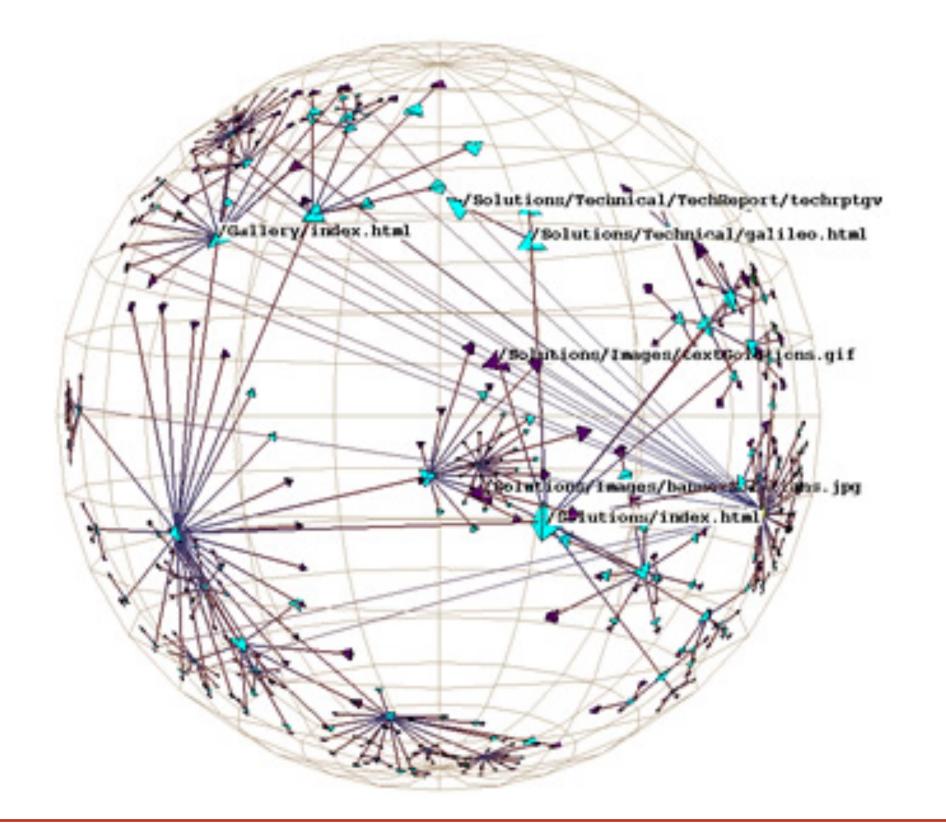




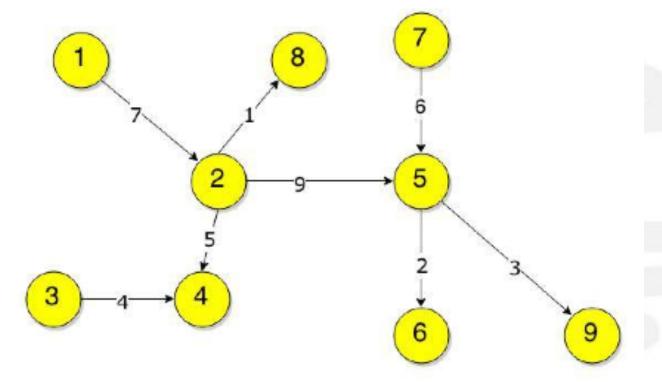
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Graph theory

weighted directed graph



Weighted Directed Graph



Adjacency Matrix

to	Vertex 1	Vertex 2	Vertex 3	Vertex 4	Vertex 5	Vertex 6	Vertex 7	Vertex 8	Vertex 9
Vertex 1	0	7	0	0	0	0	0	0	0
Vertex 2	0	0	0	5	9	0	0	1	0
Vertex 3	0	0	0	4	0	0	0	0	0
Vertex 4	0	0	0	0	0	0	0	0	0
Vertex 5	0	0	0	0	0	2	0	0	3
Vertex 6	0	0	0	0	0	0	0	0	0
Vertex 7	0	0	0	0	6	0	0	0	0
Vertex 8	0	0	0	0	0	0	0	0	0
Vertex 9	0	0	0	0	0	0	0	0	0