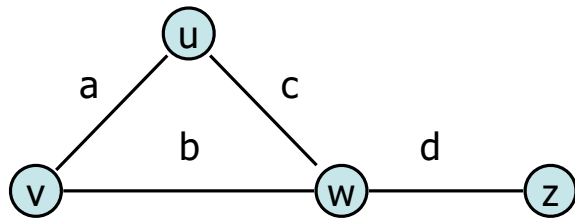# Adjacency Matrix

Key Ideas:

- Given a vertex, O(1) lookup in vertex list

- Given a pair of vertices (an edge), O(1) lookup in the matrix

- Undirected graphs can use an upper triangular matrix

	u	v	w	z
u	⌀	●	●	∅
v	⌀	⌀	●	∅
w			⌀	●
z				∅