Digraphs and Relations

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What is a digraph?

- Short for a "*Directed Graph*".
- Comprised of vertices and edge (common to all area of graph theory, but edges are directed - often indicated with arrows)
- Useful for visualizing relations.
- Very useful for a variety of IT applications (e.g. Multistate process (behaviour of AI player) and project management).
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What is a relation?

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- Useful for mathematically expressing behaviour and interaction of AI players in computer games.

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Important Terminology for Relations

- Reflexive,
- Symmetrix,
- Transitive,
- Equivalence Relation.