



Why

Ancestry in a directed acyclic graph gives a partial order over the vertices.

Definition

Suppose (V, E) is a directed acyclic graph. Define the relation \preceq by

$$s \preceq t \text{ if } s \text{ is an ancestor of } t \quad \text{for all } s, t \in V$$

Then \preceq is a partial order. We call it the *ancestry partial order*.

