Paths and associations

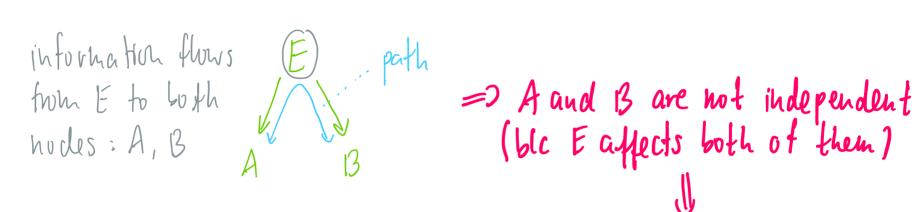
Types of paths:

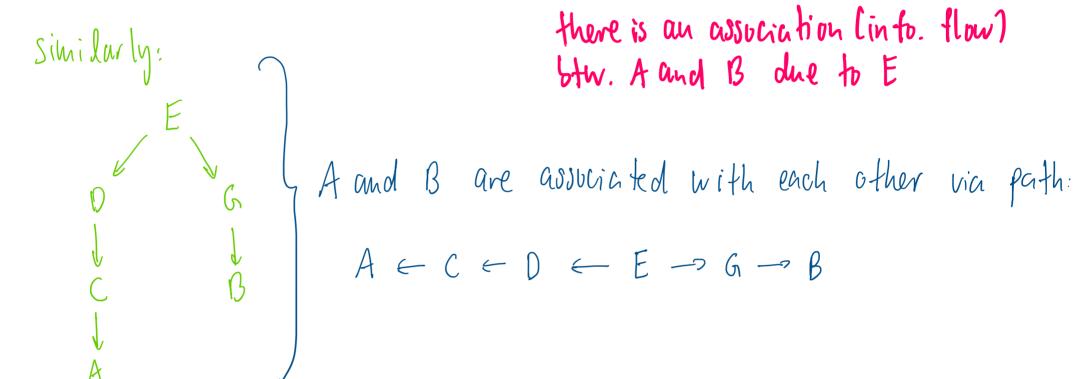
D = E - F think of it as a fork of E Forh:

1) - 7 E - F think of a chain reaction (flow in Chain: one direction)

Inverted fork: D-== E== F

- association by. two modes A.B which are located at the end of a path: is association iff information flows to both modes





Example for association blu. A and B through chain:

A-G-D OR A-G-D-F-B

Paths which do not induce association between A and B:

- association btw. 2 modes exists, if we can propagate information from a DAG wide to both wides of inferest (A,B)



counter example DAG WIO association for (A,B) pair:

Here, into from A and B collide (get stuck) at G.

Thus, we call G a "collider".

-> with: A -> G \(\) B we get that A \(\) B (iff this is the only path btw. A and B in the DAG).

Add. example: A -> G = D = B

collision at mode G. Thus no association btw. A and B. Thus, A I B on this path of the DAG.