LET'S FORMALLY DEFINE WHAT A GRAPH IS...

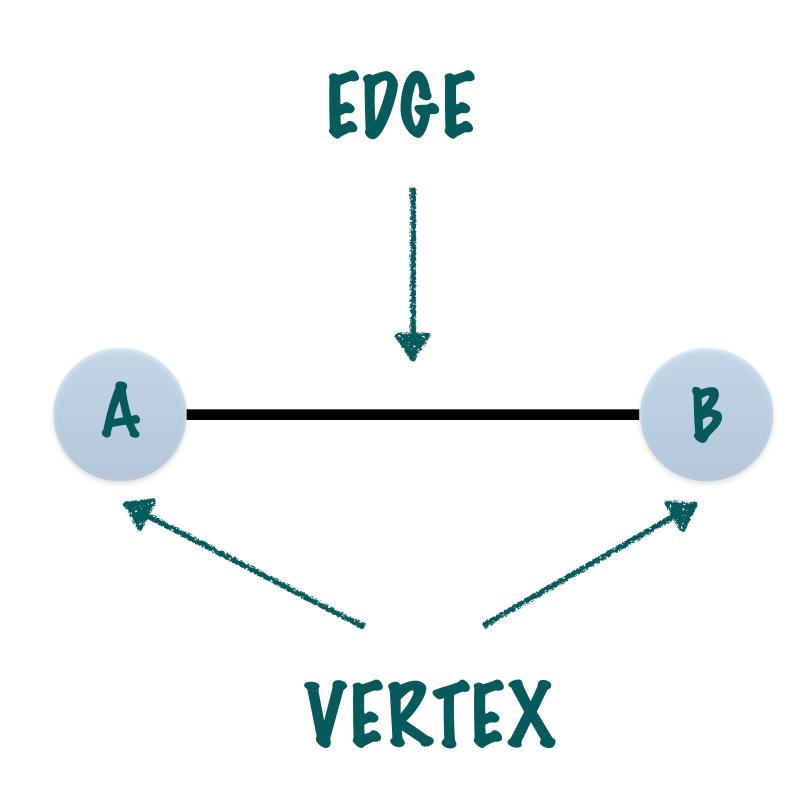
A GRAPH IS A SET OF VERTICES AND EDGES

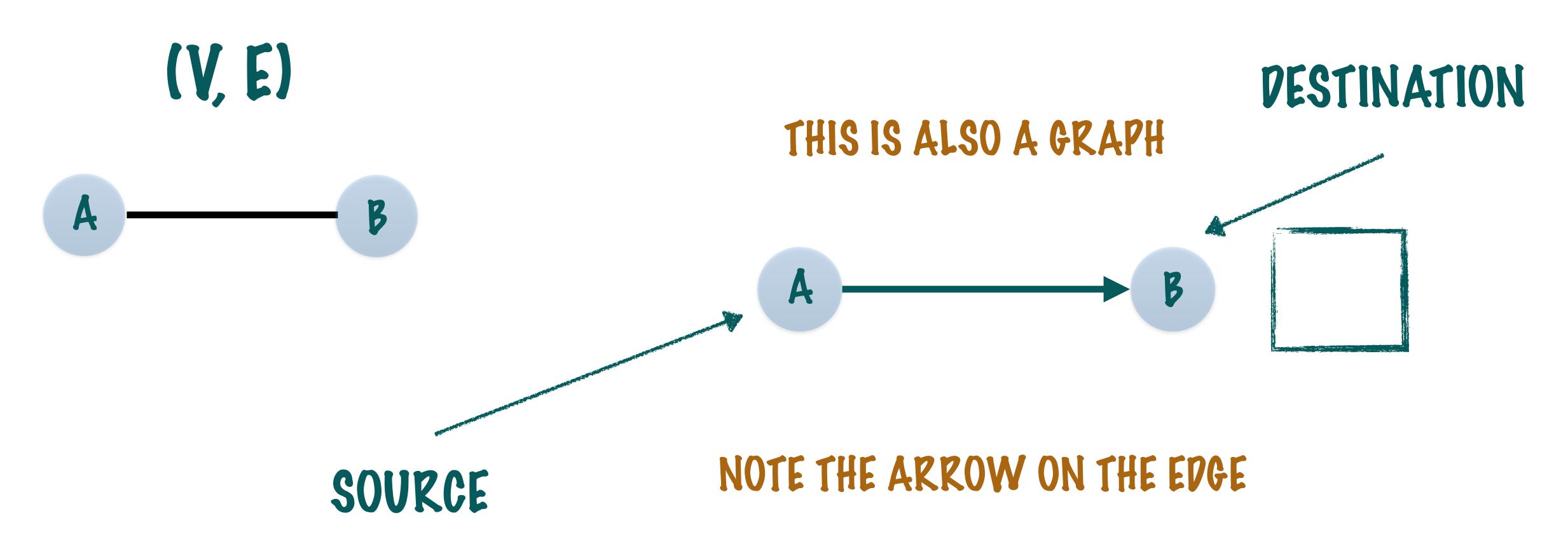
(V, E)

A

TWO VERTICES AND A SINGLE EDGE IS ALSO A VALID GRAPH

(V, E)





THIS MEANS THAT THE RELATION SHIP BETWEEN THE TWO VERTICES IS DIRECTED - THE EDGE IS A DIRECTED EDGE



UNDIRECTED EDGES REPRESENT 2-WAY RELATIONSHIPS SUCH AS:

- 1. TWO WAY ROADS
- 2. I AM HIS FRIEND AND HE IS MINE

A B

DIRECTED EDGES REPRESENT 1-WAY RELATIONSHIPS SUCH AS:

- 1. ONE WAY ROADS
- 2. I REPORT TO MY MANAGER

DIRECLES