Vertex Objects:

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-3

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a

vertex object for vertex v storing element x has instance variables for:

- → a reference to element x to support elementl)
- be efficiently removed from V if it were removed from the graph

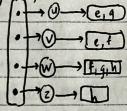
- Elge Objects:

edge object for an edge e storing element x has instance variables for:

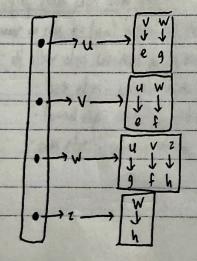
- → a reference to element x, to support element()
- \*references to vertex objects associated w/ the endpoint vertices of e. These allow the edge instance to provide constant time support for endpoints() and oppositely)
- -a reference to the position of the edge instance list E, thereby allowing e to be efficiently removed from E if it were removed from the graph

Adjacency List:

groups the edges of a graph by storing them in smaller secondary containers associated we each individual vertex for each vertex v, maintain cellection I(v), culled incidence collection of v, whose entries are edges tackent to v



Adjacency May Example



FI