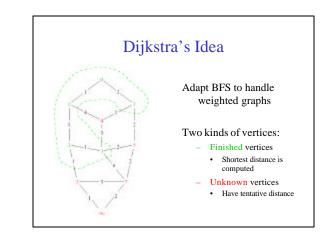


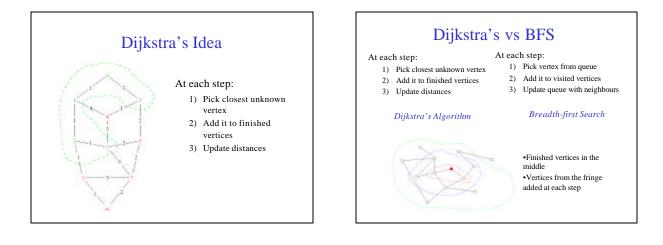
Dijkstra, Edsger Wybe

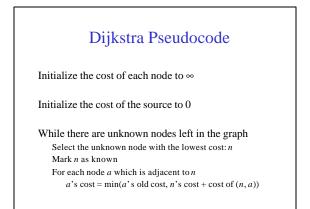
Legendary figure in computer science; now a professor at University of Texas.

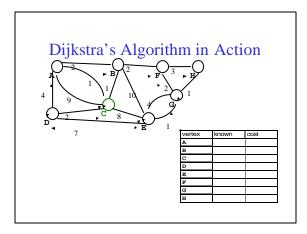
Supports teaching introductory computer courses without computers (pencil and paper programming)

Supposedly wouldn't (until recently) read his e-mail; so, his staff had to print out messages and put them in his box.



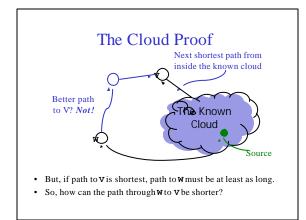


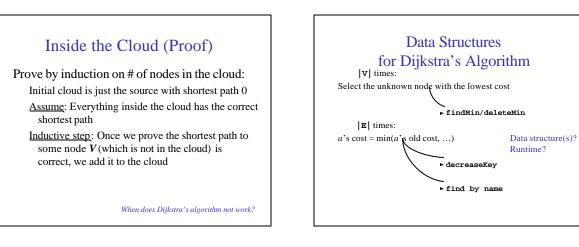




Dijkstra's Algorithm for Single Source, Shortest Path

- Classic algorithm for solving shortest path in weighted graphs without negative weights
- A greedy algorithm (irrevocably makes decisions without considering future consequences)
- Intuition:
 - shortest path from source vertex to itself is 0
 - cost of going to adjacent nodes is at most edge weights
 - cheapest of these must be shortest path to that node
 update paths for new node and continue picking
 - cheapest path





Graphs are Really Important!