~ Graphs Nodes Edges Uni/Bidirectional Weigted Elges · Represent Physical System Fase of connectivity between nodes w = time to transit st intersections A → E fastest path A → D ACE A >B >D 3 A B D FE $A \rightarrow C \rightarrow D$ ABDCE AC DF6 FROM Build Graph Evaluate Cost of a girm porth В A Find all nodes connected to 0 2 90 00 <1 a starting pt 2 O $^{\circ}$ ∞ ∞ α 10 3 4 00 Ō $\sqrt{1}$ 0 Shortest Path 4 00 0 W 00 0 00 φ 00 8 90 W D Tiktok Facebook Insta E>E unweighted edges unweighted F>EF unidirectional bidirectional DADFEC 1 x 38 x 38 C > CDEF

bidirectional
2 × 3B × 3B
4.5 × 10 bits
499 Peta Bytes
Sparse Medrix

Undirectional $D \rightarrow DFEC$ $C \rightarrow CDEF$ $B \rightarrow ABDCEF$ $A \rightarrow ABCDEF$

class nodes

class edge

class graph

List of nodes

dst

insert

list friend

find all connections

remore node

add friend.