

Why? ① New node joins — connects itself to node of highest-degree.  (Preferential Attachment: Rich get richer)
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Blocks + Cut Points.  "If node was removed, would shuck be divided into unconnected parts?"  Such nodes = CUT POINTS.  = act as brokers among otherwise disconnected groups.
* Component analysis = disconnected parts
* Bicomponent analysis = disconnected parts  * Bicomponent analysis = vulnerable parts  divisions into place Many divide Many
divisions into which they divide the points = BLOCKS.
Bottom Up Approach. find subsmits -> see how it builds up into bigger smetures dyad -> briad -> dense duster.
Words you have to know:
Words you have to know:  DCLIQUE highly consider subgroup (induced subgraph that is a complete graph)  may overlap + share nodes.  Dall node
every muniber is connected to everyone else adjacent
MAXIMAL CLIQUE — can't add another noteupo & R  disherbring property.  I-chique bl
MAXIMUM CLIQUE - dique is largest no of vertices.
Problem is — super rigid definition — bleh.  Relax restrictions little bit.
(2) K CII BUC (Buc on distance)
(2) K-CLIQUE (focus on distance)  — clique where shorted-path distance ≤ k.
1- Clique = everyone is one hop away
2 - dique = everyone @ max 2 holps away.
3K-CLAN
3 K-CLAN  restrict k-clique even more — "all hies among actors occur thro'  other numbers of group"
G K-PLEX
"I can not be friends of this many people in my group"
Deservações
(sk) k-degenerate = jandivecto d arabh
Degeneracy.  (sk) k-degenerate = undirected graph  every subgraph has a vertex of degree at most k.

(s b) k-degenerate = undirected graph
every subgraph has a vertex of degree at most be. ho matter how you look @ it, you can always find alless one vertex that has k >, connections to other vertices. degeneracy of a graph is the smallest value of k. k core = vertex has > k connections to \* there's (>k) - core no. is a measure of prestrage. A k-core is a maximal subgraph of nodes, such that each node in the subgraph has at least a degree k. core periphery should I 0-kore is full graph · 1-kore is a graph with no isolate 2-kore ( at least 2 neighbors); hence 2 core cannot have a pendulum structure as each leaf of the pendulum needs a degree 1 node Any graph usually has more than one core; the core with the largest possible k is called the main core of the graph. Two k-cores cannot overlap, since then they would just form another k-core of larger size Finding k core: all nodes in core have k neighbors 3) le corona - remove k-core, left of k-const 1 Start of of graph remaining nodes lose neighbors (2) Remove all nodes of degree < k. \_ degree of nodes & Remove all incident edges. 3 Remove nodes w < k degree after prev. removal. (9 Remaining nodes form k-core.