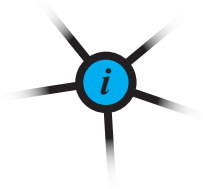


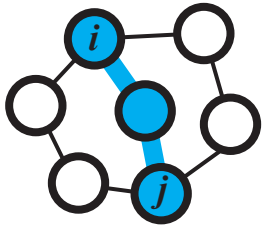
degree  
 $d_i$

# nodes bound to node  $i$



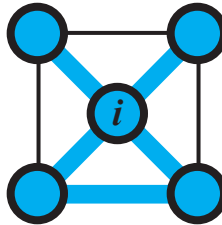
shortest path distance  
 $d_{ij} = \min\{|e_p| \mid e_p \in E_{ij}\}$

$E_{ij}$ : all edge sets connecting  $i$  &  $j$



clustering coefficient  
 $c_i / \binom{n_i}{2}$

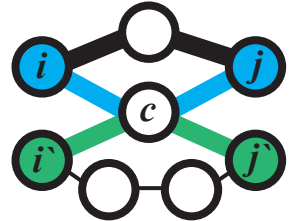
$c_i$ : edges connecting all  $n_i$  nodes bound to  $i$



betweenness centrality

$$b_c = \sum_i \sum_j I_{ij} / s_{ij}$$

$s_{ij}$ : tot # of shortest paths btwn  $i$  &  $j$   
 $I_{ij}$ : 1 if  $c$  is within path; 0 otherwise



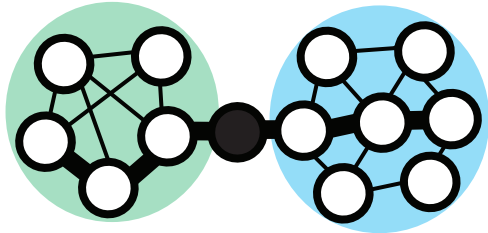
bottleneck



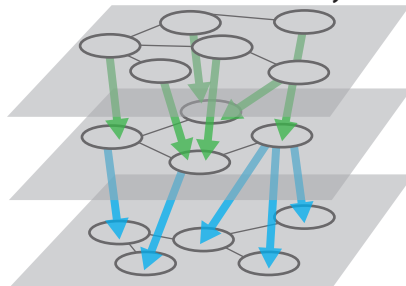
diameter



modules



network hierarchy



bipartite

