

Emergent Networks

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Social Network Analysis

- Social Network Analysis [SNA] is a mathematical and visual analysis of relationships / flows / influence between people, groups, organizations, computers or other information/knowledge processing entities.

Any system that forms a network [nodes and links] can be analyzed using SNA

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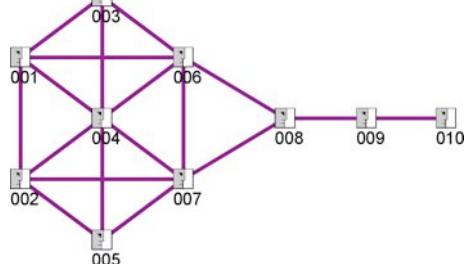
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Combining Networks

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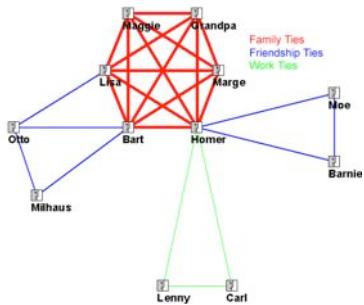
Simple Network



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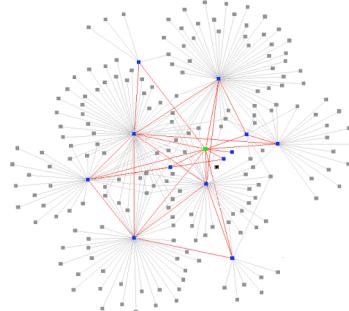
Multiplex Network



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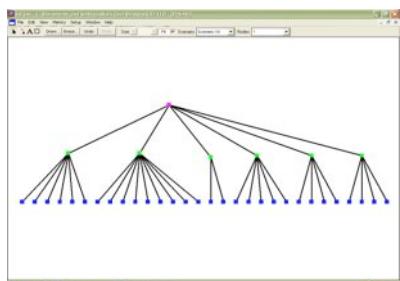
Social Network @ 2 steps



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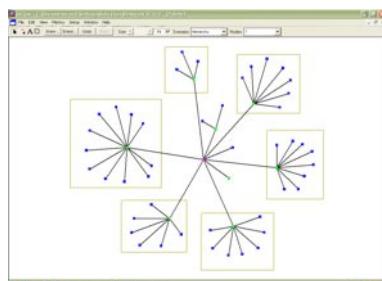
Organizational Hierarchy



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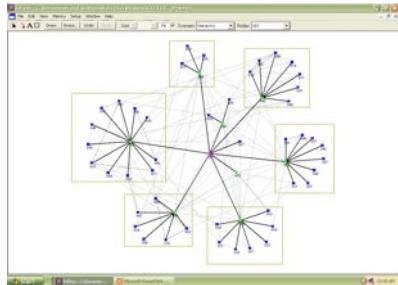
Organizational Hierarchy as Network



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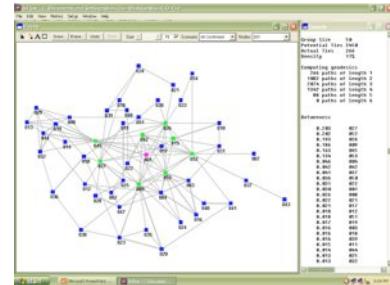
What Happens in the White Space?



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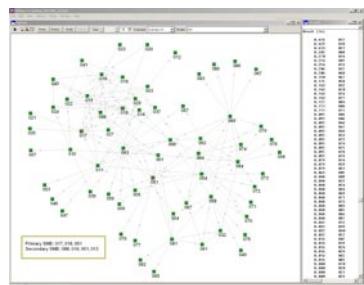
Emergent Organization



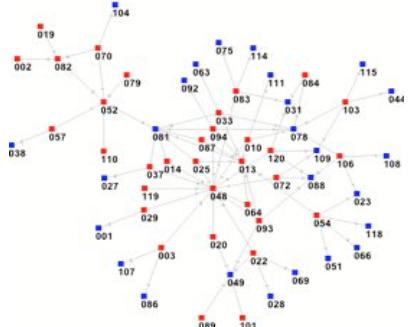
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Expert Location



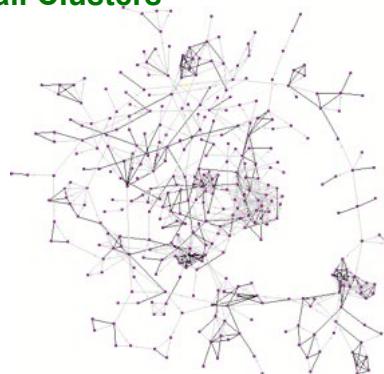
Key Opinion Leaders



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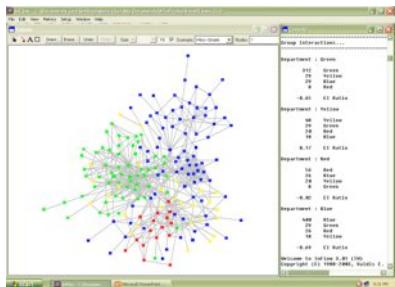
Email Clusters



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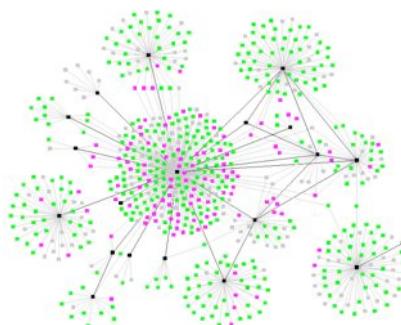
Project Management



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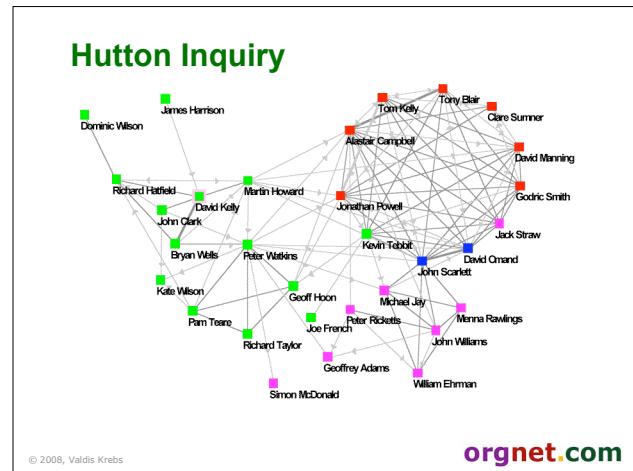
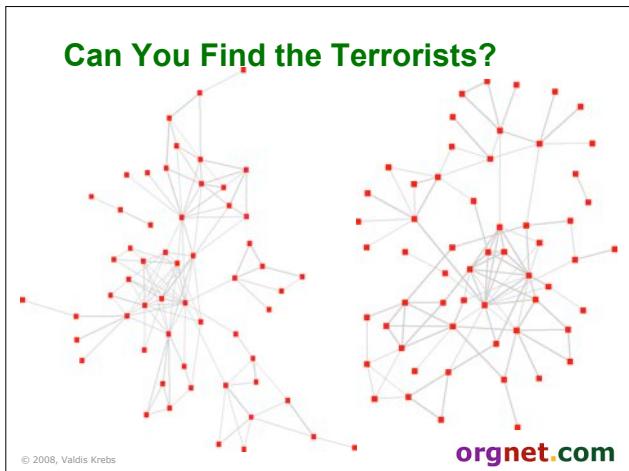
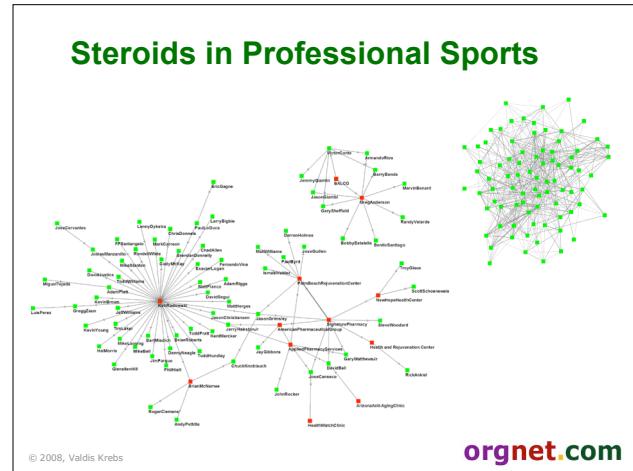
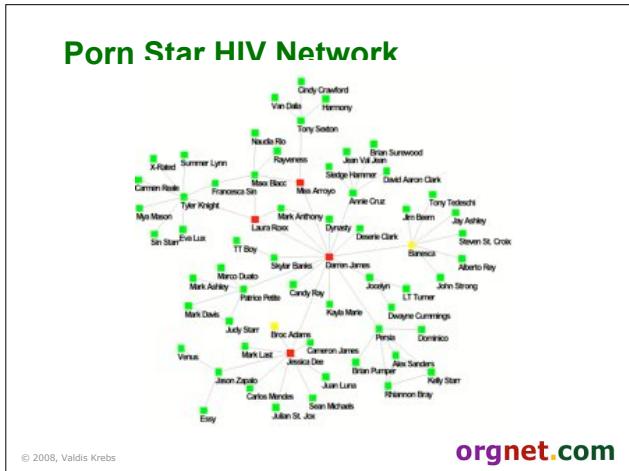
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Spread of Contagion



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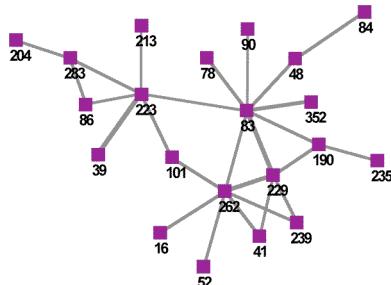
Government Corruption Scandal



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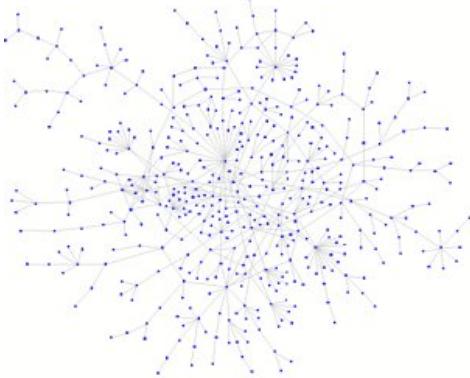
Animal Networks



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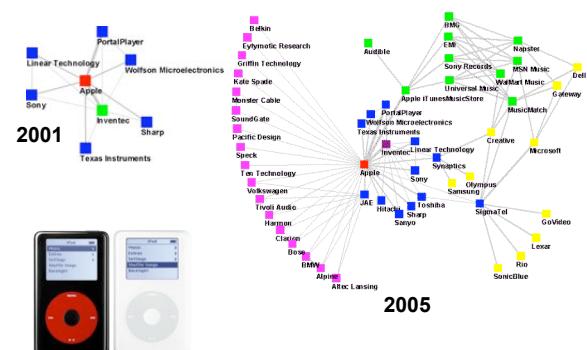
Biochemical Networks



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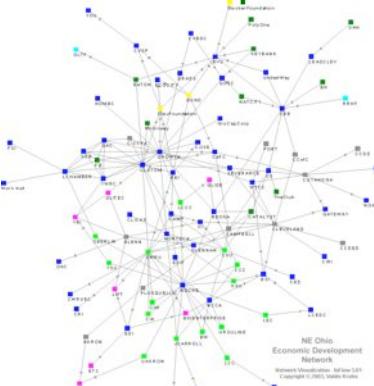
Industry Networks



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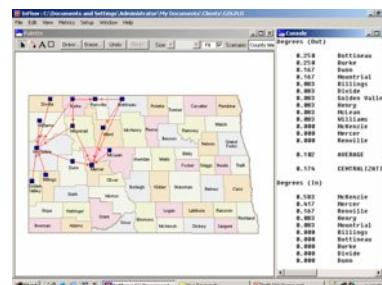
Economic Development



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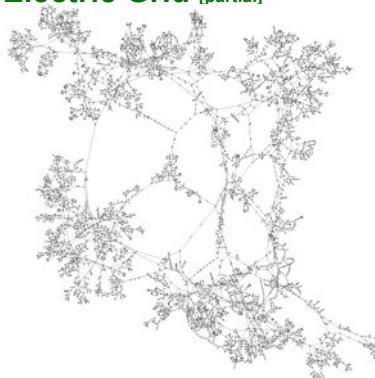
Geographic Networks



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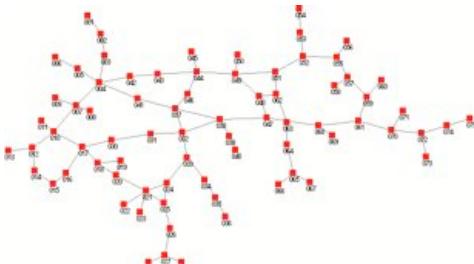
US Electric Grid [partial]



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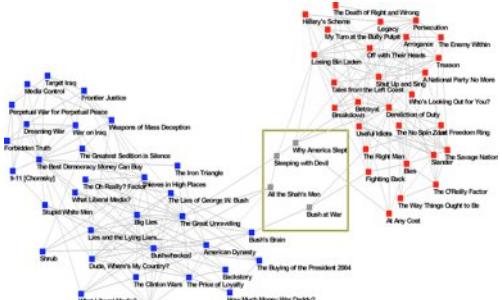
Oil Pipeline



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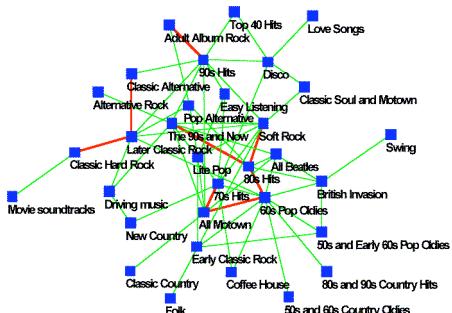
Book Networks



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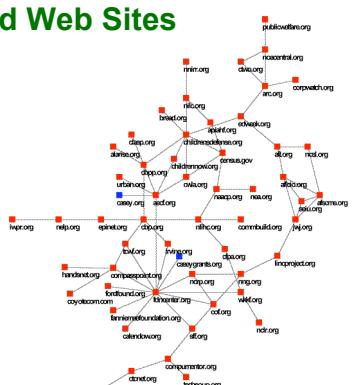
Musical Styles



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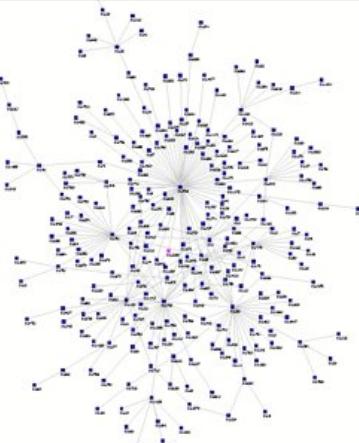
Linked Web Sites



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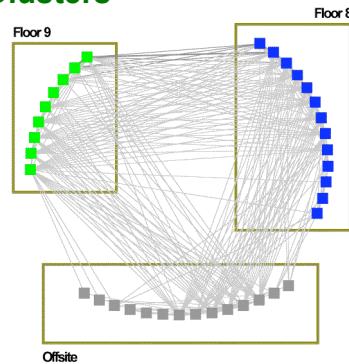


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Internet

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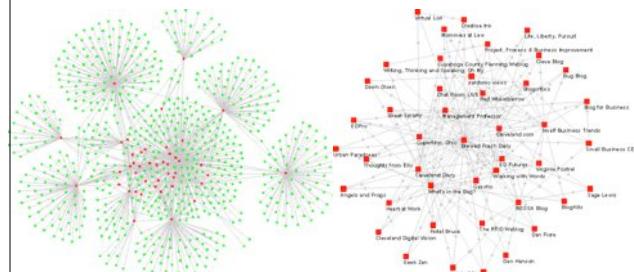
Wiki Clusters



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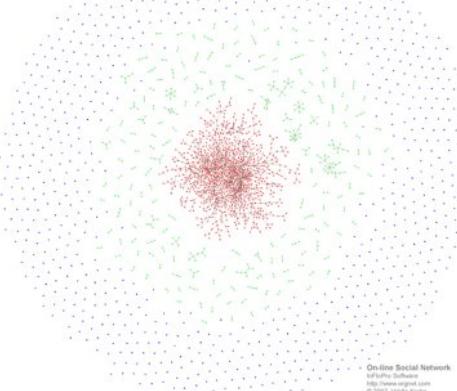
Blogging Networks



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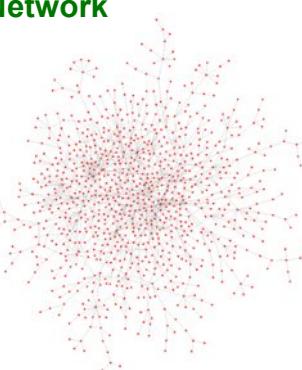
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Online Network



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Questions?

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