



LIONSHARE

LionShare

- VIUS (Visual Image User Study)
 - <http://www.libraries.psu.edu/crsweb/vius/>
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What is P2P?

- Peer-to-Peer (P2P)
 - Peer-to-peer is a communications model in which each party has the same capabilities and either party can initiate a communication session.
- P2P Applications
 - File sharing
 - Instant Messaging
 - Web Services
 - Distributed Computing

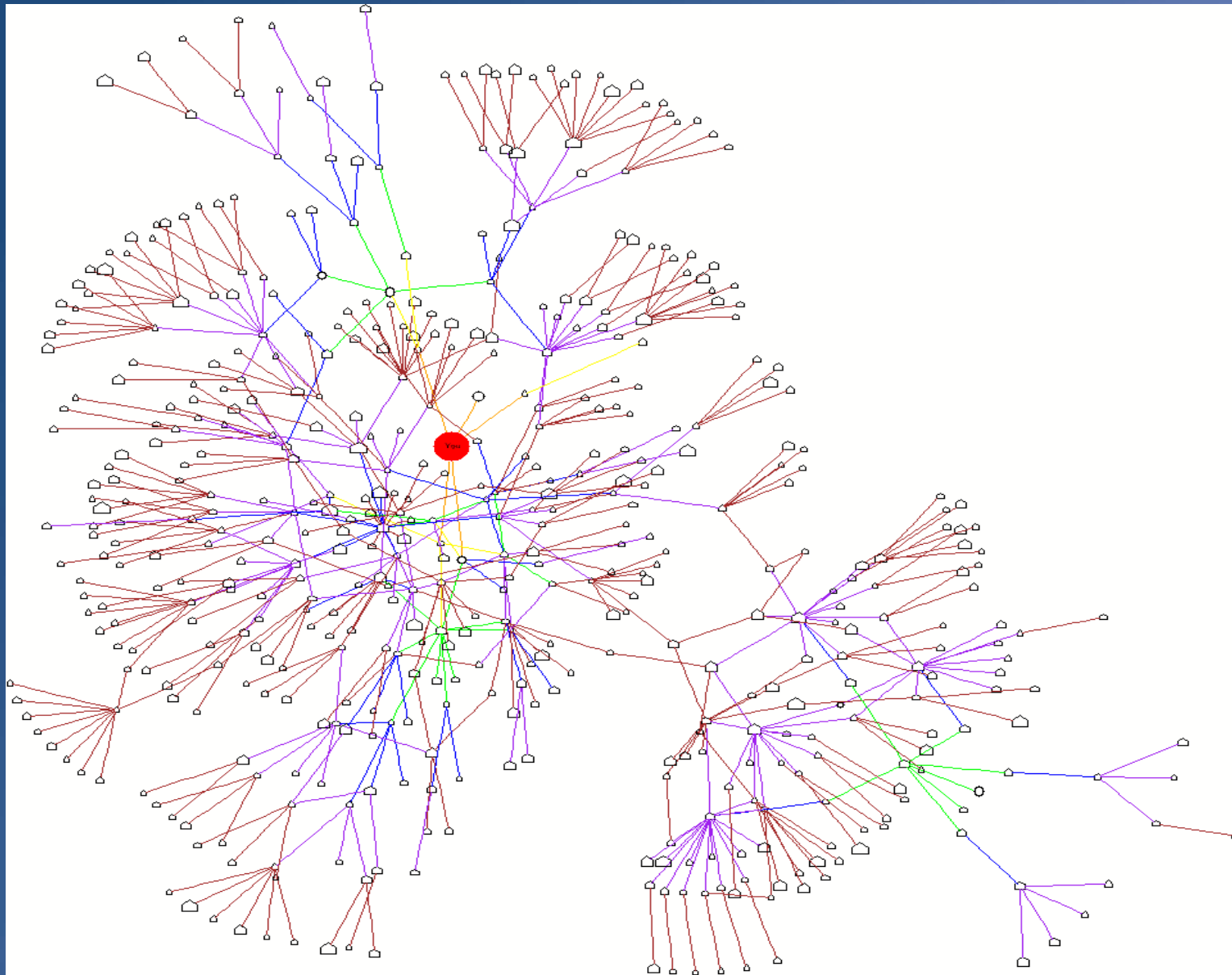


Gnutella

- A decentralized P2P file sharing protocol
- History
 - Originally developed by a software company called Nullsoft released for less than 24hrs
 - NullSoft's parent company (AOL/TW) ordered the removal of the application
 - Extended by Open Source Developers
 - Popularity: over 200 million downloads



Gnutella Topology



P2P in Academia

- Why use P2P?
 - Collaboration
 - Digital Media
 - In the classroom
 - Multimedia
 - Powerpoint
 - Consumer Digital Devices
 - Digital Cameras
 - Digital Audio
 - Digital Video



Faculty

- P2P for lesson plans
 - Addresses the problem of redundancy
 - Many faculty scouring the web for similar media
 - P2P allows faculty to share and collaborate on similar topics
 - Group and one on one



Students

- Already VERY familiar with the concept of file sharing
- Increase in group projects
 - Currently students use e-mail to collaborate
 - P2P is a much more efficient solution
 - Synchronous and Asynchronous
 - Chat and IM
 - P2P can provide an IM standard if one does not exist by deployment time
 - IM for Student – Teacher communication (virtual office hours)



P2P Hurdles & Solutions

- Administrators
 - P2P associated with Napster
 - education
 - Liability and Copyright concerns
 - Authentication (eliminate anonymity)
 - Activity Log
 - Access Control
 - DRM (Digital Rights Management)
 - Lack of Control
 - Hybrid Topology



Hurdles & Solutions (cont)

- Faculty
 - Unfamiliar with P2P
 - education
 - Many still don't use digital media
 - Its only a matter of time
 - Uncomfortable with sharing
 - Education
 - Once they see the power!



Hurdles & Solutions (cont)

- Students
 - Copyrighted and questionable material
 - Lack of anonymity (students will not share such files publicly)
 - Activity Log
 - Cheating
 - Activity Log
 - Share restrictions
 - Same thing can be said for the for the Internet



What is LionShare?

- LionShare: a collaboration tool for academic networks.
 - Built from open source code from the Limewire file sharing application
 - Uses a modified version of the Gnutella protocol
 - Hybrid Network Topology
 - Decentralized
 - Client/Server



Features

- Private Network
- Easy to use interface
- User Authentication
- Logging
- Metadata
- Operating System Integration
- Cross platform (*Windows/Linux/Mac*)



Demo

We'll show us!



Upcoming Features

- User Profile
 - Metadata automation
 - Finding like-minded people
- Security
 - Access control
 - Activity Log



User Interface

- Image Support
 - Integrated Image Viewer
 - Thumbnailing
 - Basic Manipulation
 - Resize
 - Rotate
 - Export
 - To HTML sideshow
 - Media HUB
 - Media organization, even if you don't want to share



Liftoff

- Content Content Content!
 - ContentDM (Client/Server Image repository)
 - Export to a peerserver
 - Testing
 - Limited beta release to current digital media users
 - Architecture
 - Art History
 - Others
 - Refinement
 - Release



Other Possible Features

- Instant Messenger integration
 - Jabber
- Shibboleth
 - Sharing between faculty and students of multiple institutions
- Media Organization
 - Multimedia player
 - Powerpoint export



Discussion

- Questions
- Comments
- Concerns
- Threats

