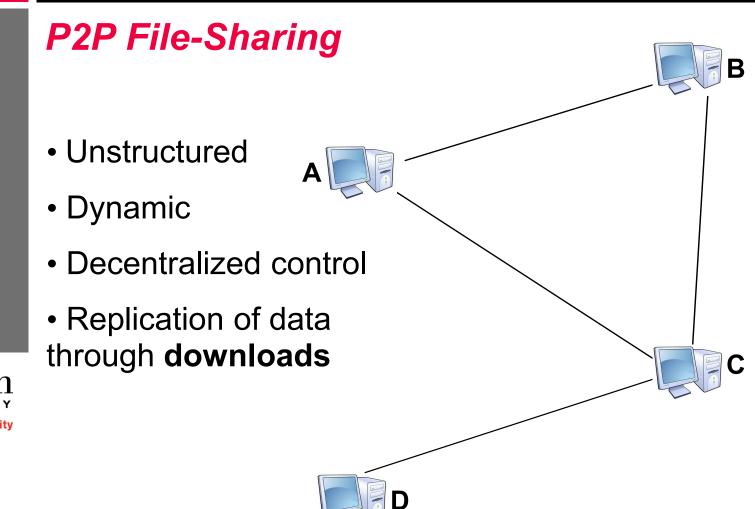
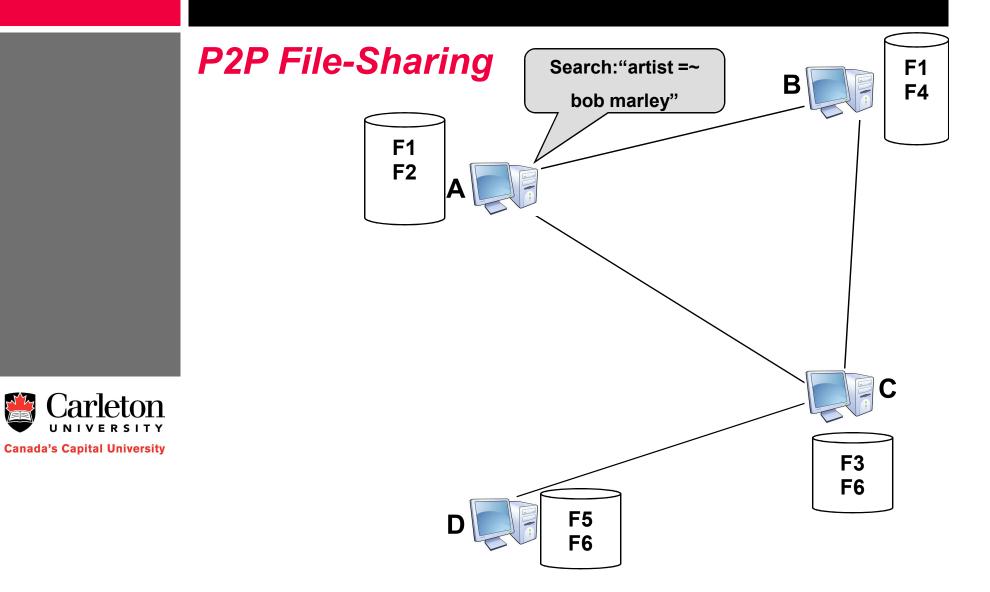


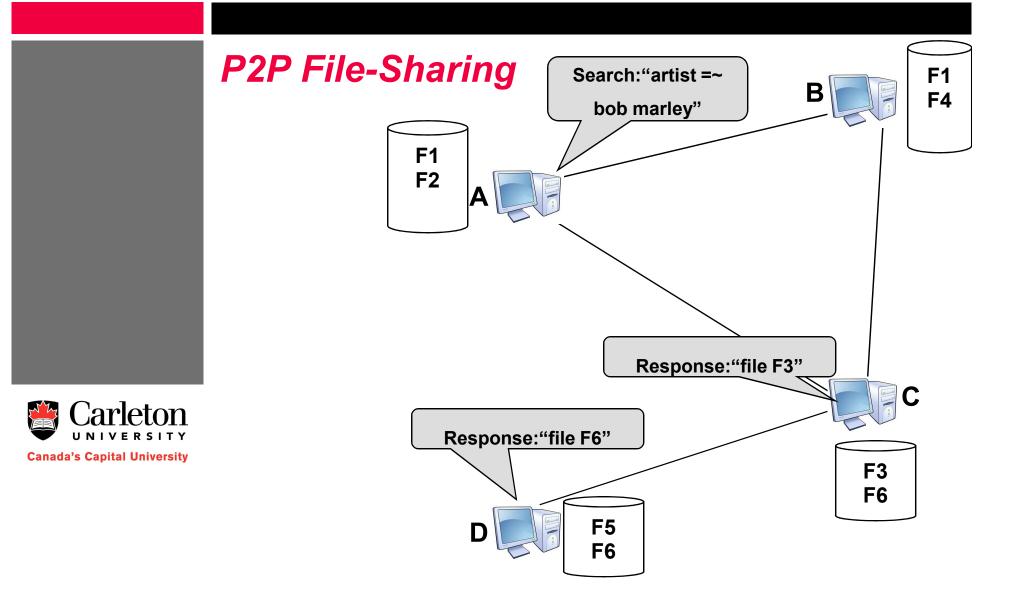
Alan Davoust Babak Esfandiari Dept. of Systems & Computer Engineering Carleton University, Ottawa, Canada

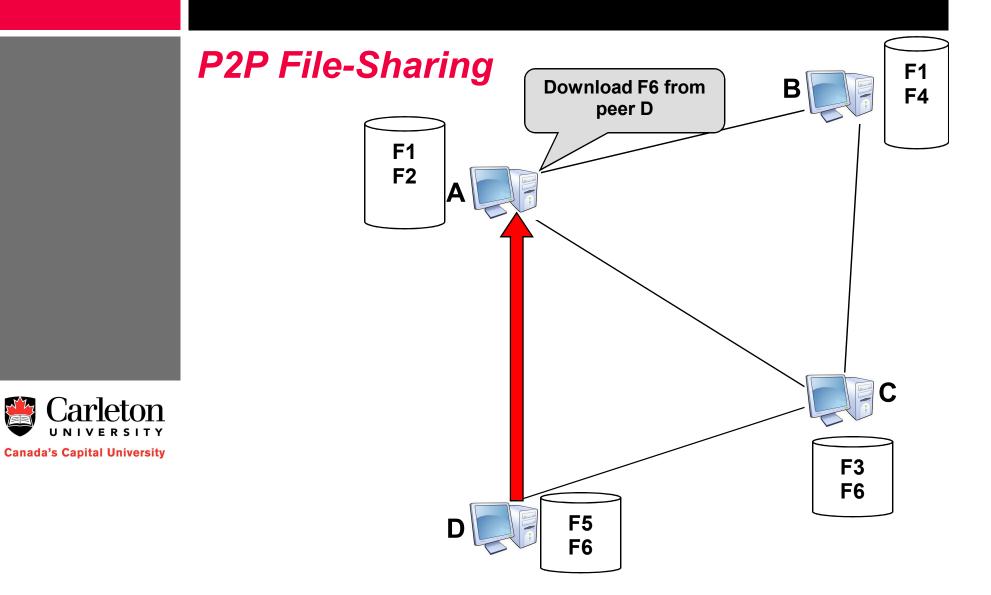


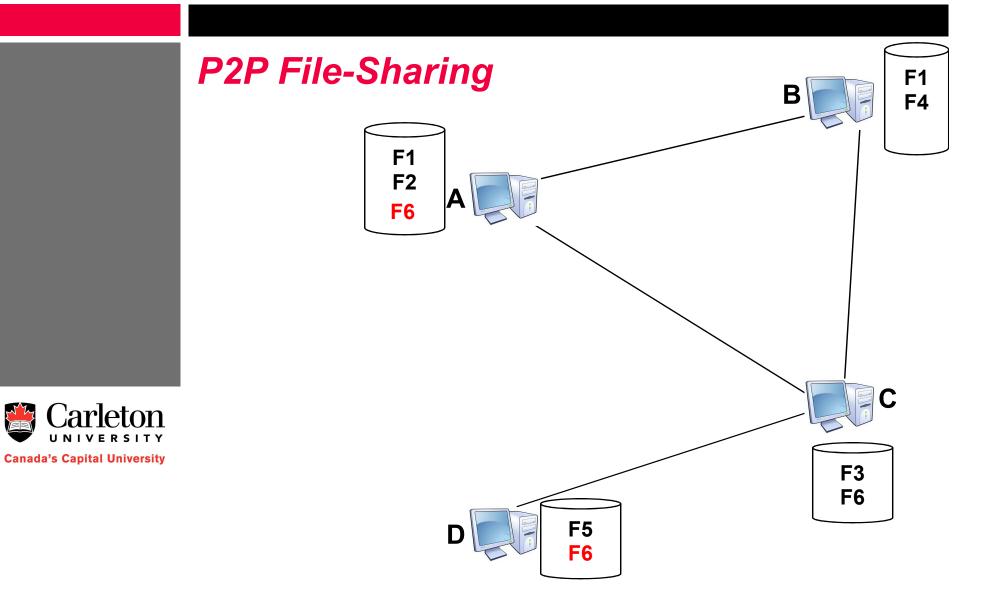














• Operations :

publish, delete, search, download





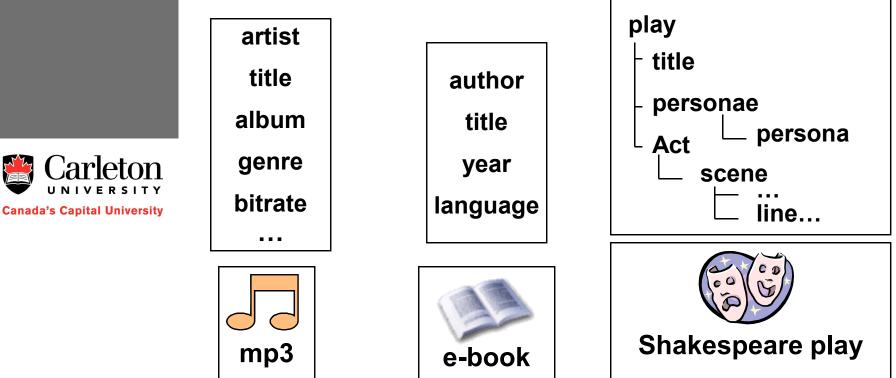
artist

title

Metadata filtering

U-P2P Communities

custom schema and presentation



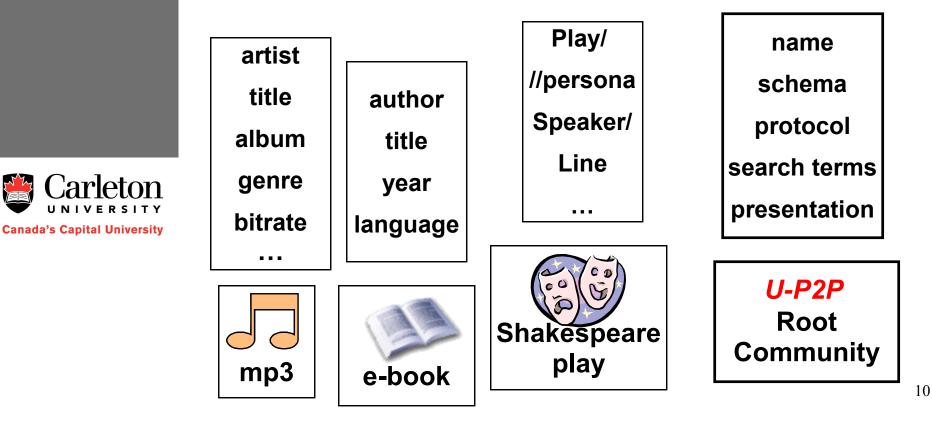
8

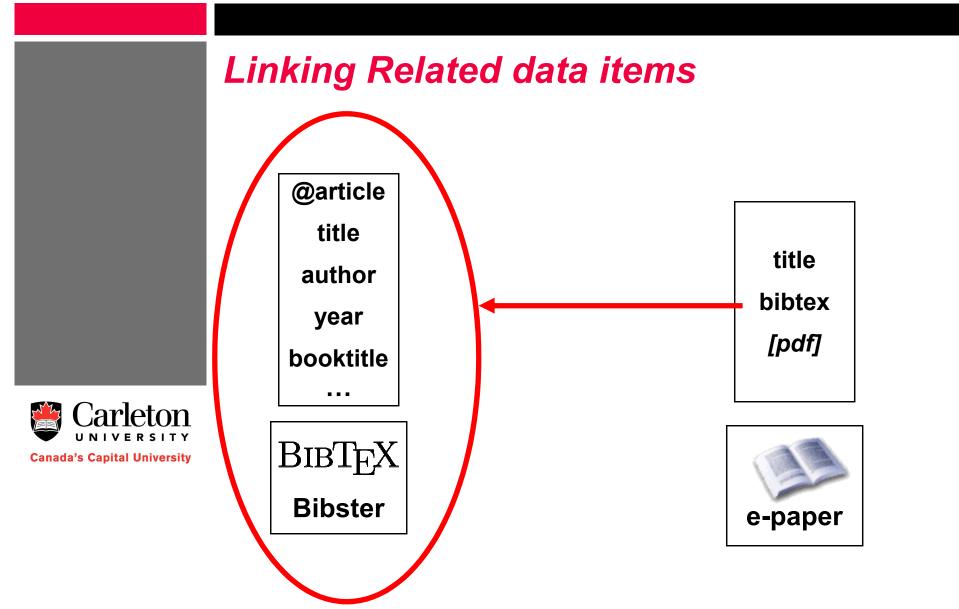
[Demo]

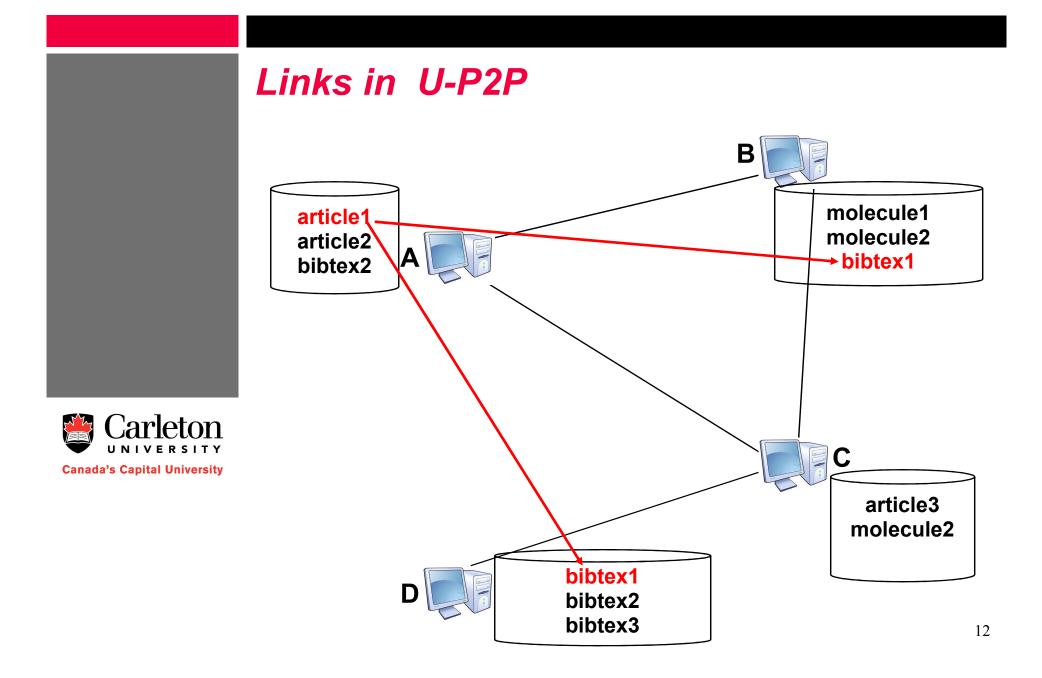


U-P2P `Root' Community

- The community of communities
- supports publish, delete, search, download







U-P2P URI scheme

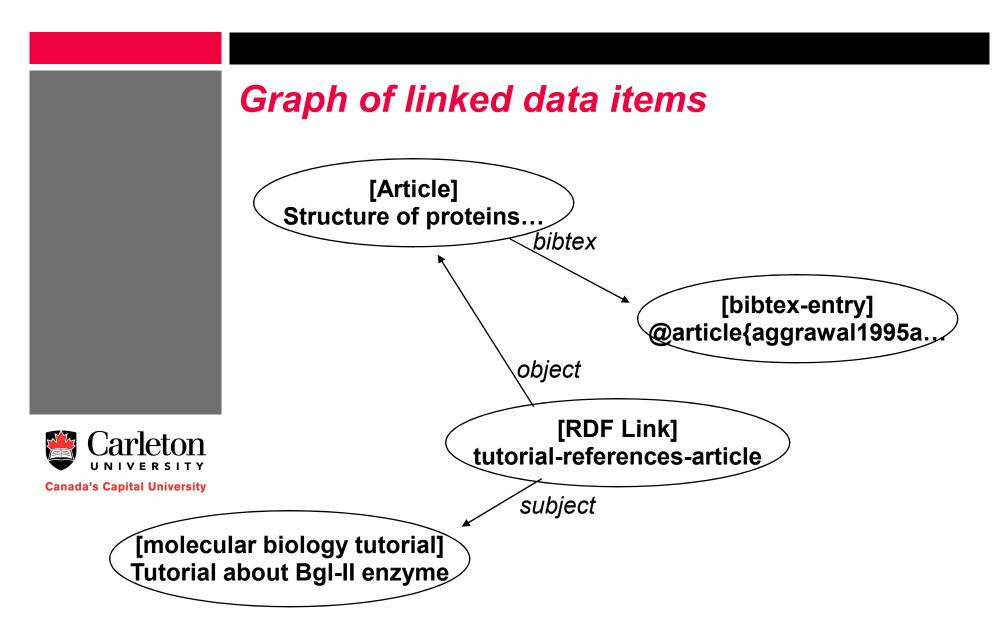
- all data items have unique id
- all data items are shared in a community
- URI syntax:

up2p:[community id] / [document id]



[Demo]





Navigating the graph

Based on elementary U-P2P operations:

publish, delete, search, download

Navigation :

- dereference URI "up2p:ABCD/1234":
 - = search community [ABCD] with filter [id=1234]
- reverse navigation from document "up2p:ABCD/1234":
 - \Rightarrow Community specific

Example:

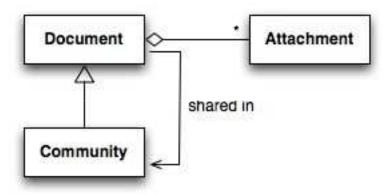
- search *Papers* for *bibtex*="up2p:ABCD/1234"
- search RDF statements for

subject="up2p:ABCD/1234"



Summary

- P2P file-sharing infrastructure
- complex data items
- concept of community
- links and navigation
- Interesting properties:





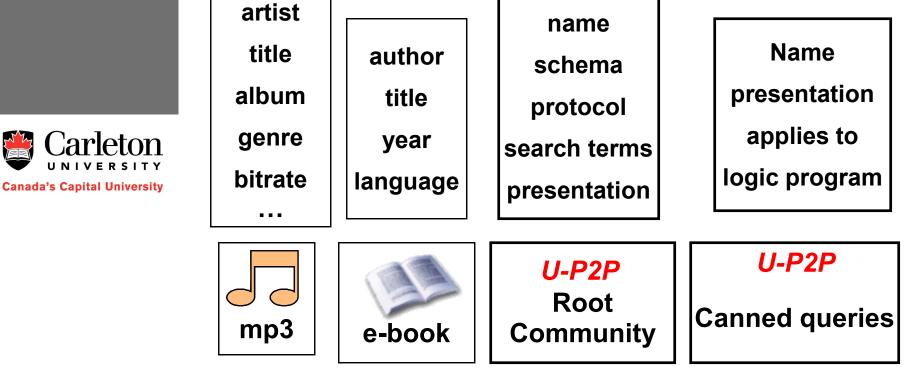
- Emergence of popular data ?
- distributed contribution a la Web 2.0
- distributed storage

Additional material



Future work [in progress !]

A community of "Canned queries"





Navigation through canned queries

