New ADS Developments

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The Linked Data Cloud
The Astronomy Data Cloud

• should be “grown” from bottom-up
• we don’t need more data, but more relationships between pieces of metadata
• science case: observing proposals
• venue: telescope, instrument, filter
• observational: position, time, exposure
• published data: papers, catalogs, surveys
The ADS Linked Data Cloud

cites

reads

reads

writes

writes

cites

reads

studies

writes

studies
What we are doing with this

• text mining of fulltext allows us to create the needed links
• clustering algorithms applied to citation and keyword co-occurrence networks create maps of astronomy research
• co-readership and co-citation networks can be used to implement new query models
• links to data allow the use of bibliographies to find relevant science products
Demo

- Topic Search
- Data Search
- Keyword Topic Cluster