



Some Current Research

Thom Hickey
OCLC Research

ARL Fellows
31 October 2007

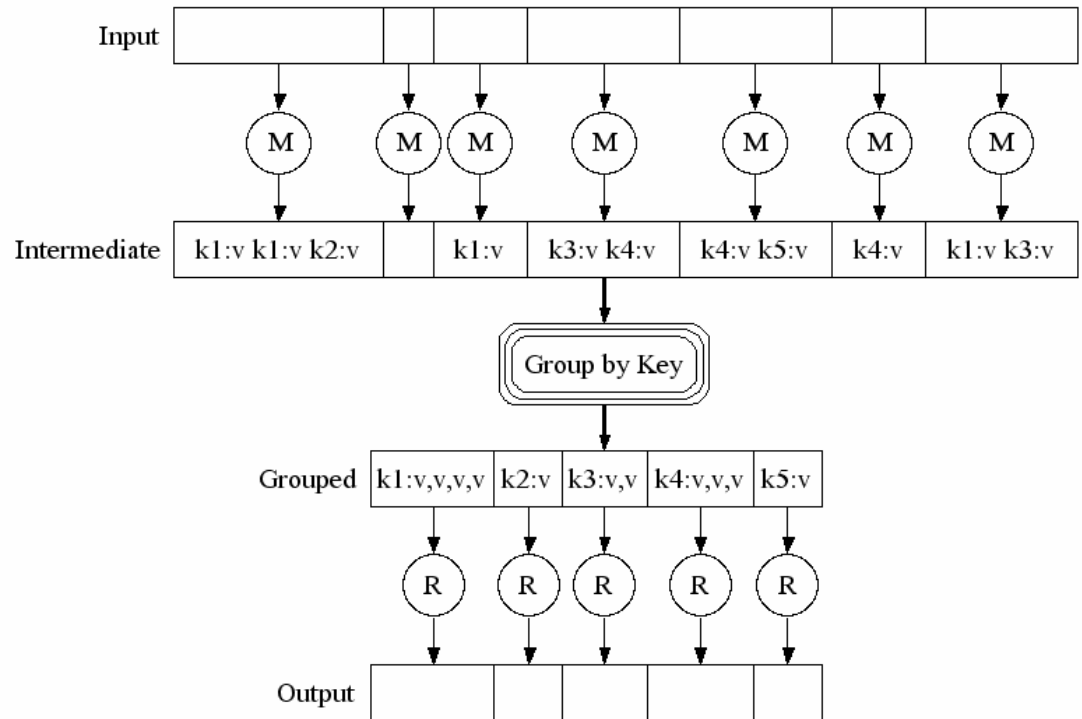
Hardware matters

- Cluster computing
 - Parallelization of processing
 - Nearly linear speed-ups for many tasks
- Everything is better
 - Languages
 - Algorithms
 - Memory
 - Disk
 - Cycle speed



100-Fold speed up

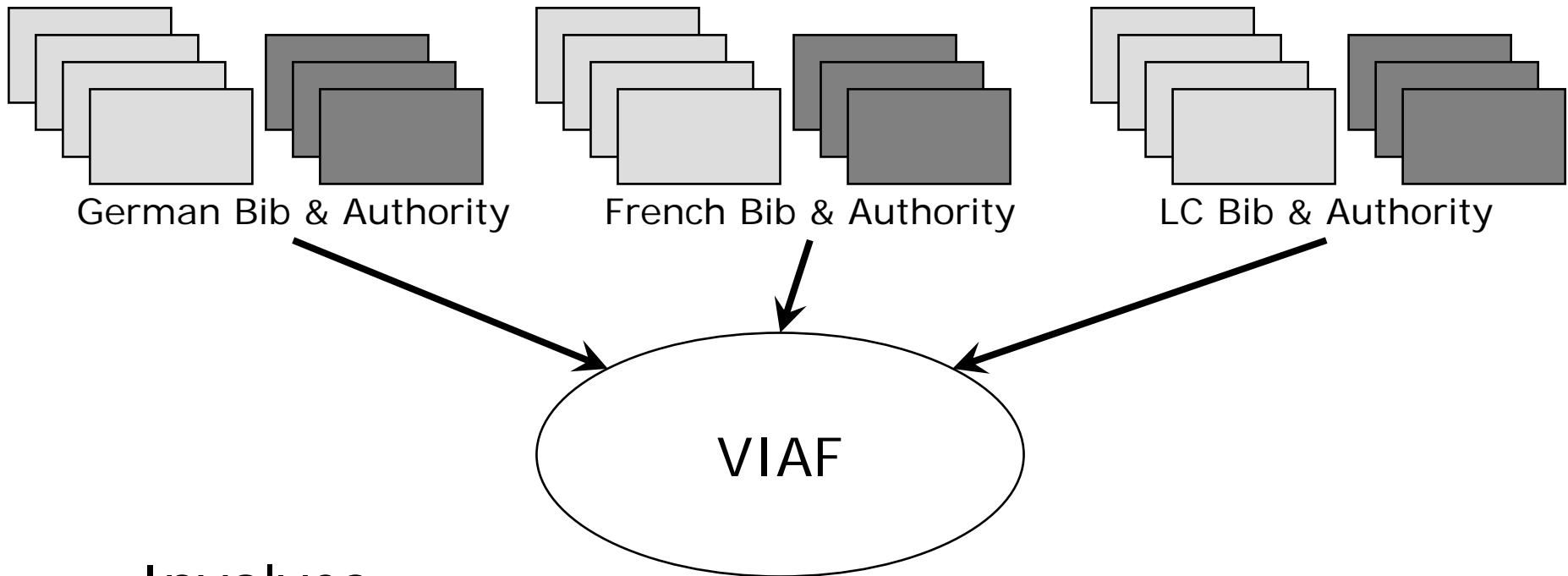
- 1 day
 - 15 minutes
- 1 week
 - 2 hours
- 1 month
 - 8 hours
- 1 year
 - 4 days



What can we compute?

- Mostly names and works
 - Match names in WorldCat to various authorities
 - Match across authority files
 - FRBRize WorldCat at the work level
 - Mine WorldCat for Identities
- But also searching!

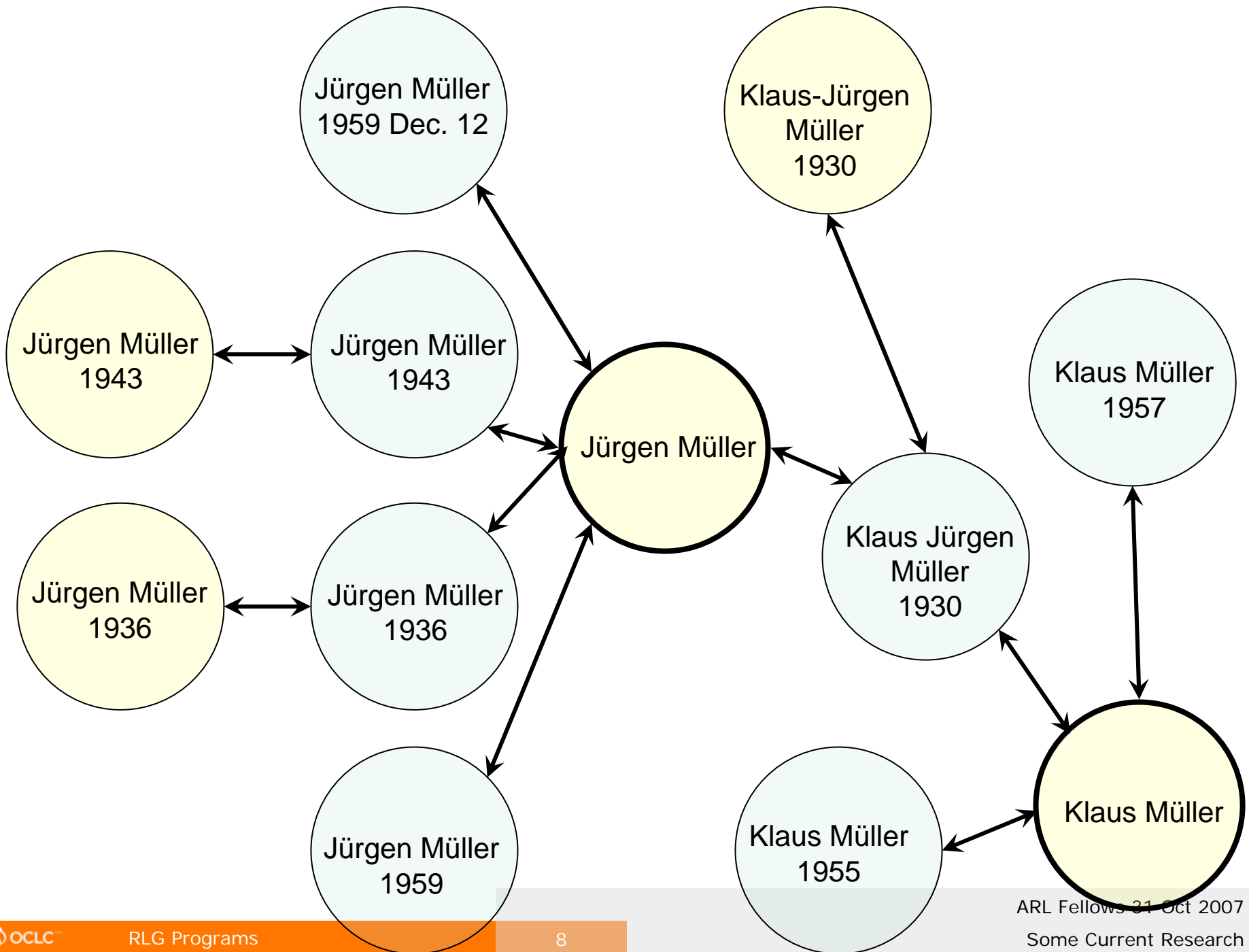
VIAF



- **Involves**

- Millions of names
- Tens of millions of bibliographic records
- Dozens? of authority files

Worst case: Klaus Müller



VIAF interface



VIAF - Virtual International Authority File - Mozilla Firefox

File Edit View History Bookmarks Tools Help

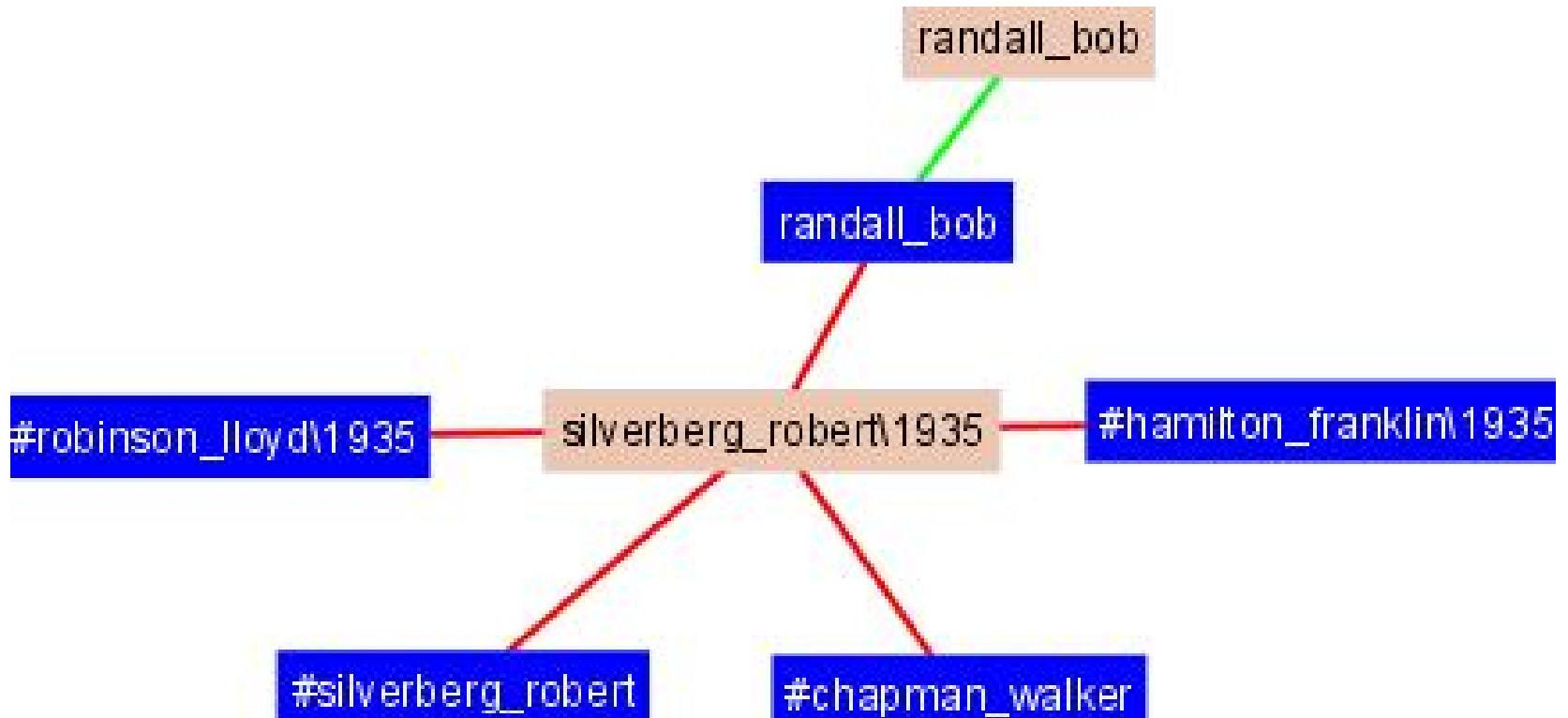
Virtual International Authority File Hosted by OCLC Research

Names Search

5 headings found for *robert silverberg 1935*

| | Name | Authority File | Sample Title | Links |
|---|-------------------------------------------|----------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1 | Silverberg, Robert | DLC | great adventures in archaeology | DNB |
| 2 | Silverberg, Robert, 1935- | DNB | die majipoor chroniken | DLC DLC DLC DLC DLC |
| 3 | Robinson, Lloyd, 1935- | DLC | the stolen election hayes versus tilden 1876 | DNB |
| 4 | Hamilton, Franklin, 1935- | DLC | challenge for a throne the wars of the roses | DNB |
| 5 | Dexter, John, 1935- | DLC | | |

Graph representation of a VIAF cluster



WorldCat Identities

- Every 'name' in WorldCat
- 20+ million pages
- Depends on
 - FRBR
 - VIAF
 - Name control
- Updated quarterly

Associated Subjects

Academic libraries Academic libraries—Administration **Academic libraries--Interlibrary loans** Acquisition of foreign publications **Association of Research Libraries Bibliography--Catalogs** Books on microfilm **Books--Conservation and restoration** Case studies **Canada** Coalition for Networked Information Columbia University.—Libraries **Conference proceedings** Confidential communications--Library records **Copyright** Copyright infringement **Dissertations, Academic--Bibliography** Electronic publishing **Interlibrary loans** Librarians--Professional ethics **Librarians--Salaries, etc.** Libraries **Libraries and state** Libraries—Special collections Library administration **Library architecture** Library buildings—Lighting Library catalogs **Library materials--Conservation and restoration** Library science Library surveys Microforms **Periodicals** Photoconvina

..... more▼

Austen, Jane 1775-1817

Overview

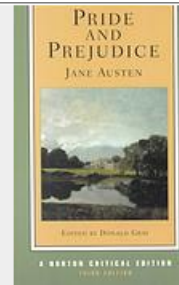
| | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Works: | 2,584 works in 7,885 publications in 42 languages and 461,351 library holdings |
| Genres: | Love stories English fiction Domestic fiction Bildungsromans Gothic fiction Humorous fiction Historical fiction Didactic fiction Domestic fiction, English Regency fiction |
| Subject Headings: | Novelists, English--19th century Women novelists, English--19th century Authors, English--19th century |
| Classifications: | pr4034, 823.7 |

Publication Timeline



Most widely held works about Jane Austen

- [Jane Austen](#)
- [Jane Austen, a collection of critical essays](#) by Ian P Watt
- [The Jane Austen book club](#) by Karen Joy Fowler
- [What Jane Austen ate and Charles Dickens knew : from fox hunting to whist : the facts of daily life in nineteenth-century England](#) by Daniel Pool
- [Jane Austen's Pride and prejudice](#)



Alternative Names

Ostin, Dzhein 1775-1817
 Ao-ssu-ting 1775-1817
 Aosiding 1775-1817
 Ao-ssu-ting, Chien 1775-1817
 Aosiding, Jian 1775-1817
 Osten, Dzheïn 1775-1817
 Austenová, Jane 1775-1817
 אֹסְטִין, ג'יין
 أوستن, جين
 Остен, Джейм
 奧思婷
 Остен, Джейн

Languages

English (7,906)
 Spanish (166)
 Chinese (137)
 French (107)
 Italian (87)
 Japanese (88)
 Russian (71)
 Polish (88)

Most widely held works by Jane Austen

Pride and prejudice by Jane Austen

1,175 editions published between 1813 and 2008 in 35 languages and held by 6,652 libraries worldwide

A spirited young woman copes with the suit of a snobbish gentleman as well as the romantic entanglements of her sisters.

Emma by Jane Austen

645 editions published between 1815 and 2007 in 28 languages and held by 5,770 libraries worldwide
Emma tries to impose her match making ideas on everyone and finds that sometimes she should desist.

Sense and sensibility by Jane Austen

625 editions published between 1811 and 2007 in 23 languages and held by 5,670 libraries worldwide
Two sisters, one practical and conventional and the other emotional and sentimental, find that only through compromise of their mutual differences can they get along.

Northanger Abbey by Jane Austen

493 editions published between 1803 and 2007 in 15 languages and held by 4,391 libraries worldwide
Six weeks of shopping, taking tea with the most fashionable ladies and dancing with the most handsome gentlemen is what awaits young Catherine Morland when she makes her entree into the leisure society at Bath. But, oh, the thrill of an unexpected invitation from the mysterious Tilney family to stay at their home-a veritable abbey.

Mansfield Park by Jane Austen

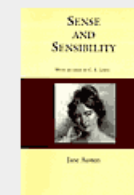
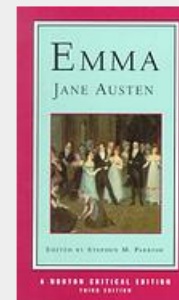
395 editions published between 1800 and 2007 in 17 languages and held by 4,187 libraries worldwide
Mansfield Park is a study of three families-the Bertrams, the Crawfords, and the Prices-with the isolated figure of the heroine, Fanny Price, at its center. Fanny's quiet passivity, her steadfast loyalty and love for the son of the family who regard her as the poor relation, and who have taken her under their roof, are not appreciated until they are tried against the brilliant and witty Mary and Henry Crawford, the unfortunate consequences of whose influence are felt by everyone.

Persuasion by Jane Austen

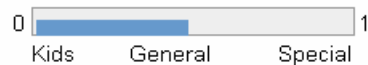
343 editions published between 1816 and 2008 in 18 languages and held by 4,053 libraries worldwide
Austen's last novel is the crowning achievement of her matchless career. Her heroine, Anne Elliot, a woman of integrity, breeding and great depth of emotion, stands in stark contrast to the brutality and hypocrisy of Regency England. Includes a new Introduction by Margaret Drabble, famed novelist and

Undetermined (49) ▲
No Linguistic content (41)
Korean (39)
Portuguese (31)
Czech (26)
Hungarian (20)
Hebrew (19)
Turkish (19)
Finnish (18)
Swedish (13)
Serbian (11)
Greek, Modern (10)
Croatian (8)
Danish (7)
Persian (7)
more ▾

Covers



Audience Level



Audience level: **0.48** (from 0.37 for *A visit to...* to 0.68 for *Jane Auste...*)

Related Names

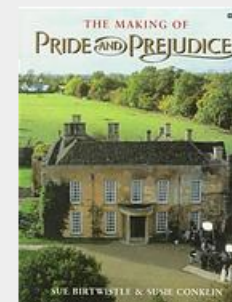
- Chapman, R. W. (Robert William) 1881-1960 **Editor** [+]
- NetLibrary, Inc. [+]
- Johnson, R. Brimley (Reginald Brimley) 1867-1932 **Editor** [+]
- Eliot, George 1819-1880 [+]
- Brontë, Charlotte 1816-1855 [+]
- Brock, C. E. (Charles Edmund) 1870-1938 **Illustrator** [+]
- Austen-Leigh, James Edward 1798-1874 **Editor** [+]
- Bennet, Elizabeth (Fictitious character) [+]
- Gibson, Flo. **Narrator** [+]
- British Broadcasting Corporation. [+]

Useful Links

- Library of Congress Authority File (English)
- Deutsche Nationalbibliothek Authority File (German)
- Wikipedia Jane Austen

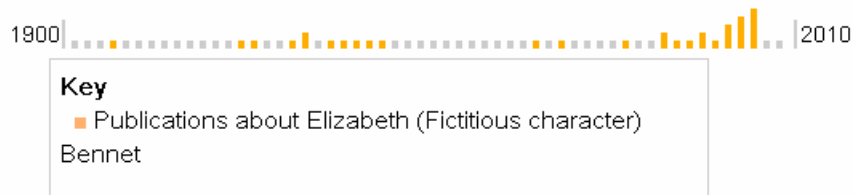
Associated Subjects

Adoptees **Art Art appreciation Austen,**
Jane,--1775-1817 Bennet, Elizabeth (Fictitious
character) Bibliography **Biography Books and reading** Children of the



Works: 60 works in 80 publications in 2 languages and 12,850 library holdings

Publication Timeline



Most widely held works about Elizabeth (Fictitious character) Bennet

Pride & prejudice

2 editions published in 2006 in English and held by 1,253 libraries worldwide

Mr. Bennet is an English gentleman living in Hertfordshire with his overbearing wife and 5 daughters. There is the beautiful Jane, the clever Elizabeth, the bookish Mary, the immature Kitty and the wild Lydia. Unfortunately, if Mr. Bennet dies their house will be inherited by a distant cousin whom they have never met. The family's future happiness and security is dependent on the daughters making good marriages. Life is uneventful until the arrival in the neighbourhood of the rich gentleman Mr. Bingley, who rents a large house so he can spend the summer in the country. Mr Bingley brings with him his sister and the dashing, rich, but proud Mr. Darcy. Love soon buds for one of the Bennet sisters, while another sister may have jumped to a hasty prejudgment. For the Bennet sisters many trials and tribulations stand between them and their happiness.

Presumption by Julia Barrett

2 editions published between 1993 and 1998 in Slovak and English and held by 858 libraries worldwide

A sequel to Jane Austen's Pride and Prejudice centers on Georgiana Darcy and her interest in both a naval officer and an architect.

Pride and prescience, or, A truth universally acknowledged : a Mr. & Mrs. Darcy Mystery by Carrie Bebris

3 editions published between 2004 and 2005 in English and held by 810 libraries worldwide
Mr. & Mrs. Darcy, the joyous newlyweds from Pride and Prejudice, have not even left for their honeymoon when they find themselves embroiled in a mystery involving one of their wedding

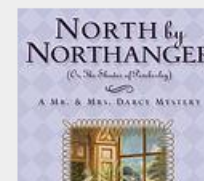
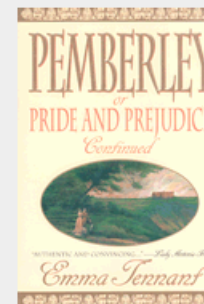
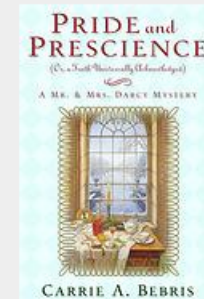


Languages

English (79)

Slovak (1)

Covers





Thank you



T. Hickey

<http://VIAF.org>

<http://orlabs.oclc.org/Identities/lccn-n82-54463>

**ARL RLL Fellows
2007 October**