

XTF 2.1

Powerful Search and
Display without the
Headaches

Martin Haye
California Digital Library

Overview

- What is XTF?
- Community-inspired development
- New features in 2.1
- Planned improvements

XTF in 2 minutes

- eXtensible Text Framework
- Search and display technology from CDL
- Open-source Java framework
- Powerful and highly configurable
- XML + Full text search
- Also indexes PDF, HTML, Word

XTF in 2 minutes

- Search: Query power/speed of Lucene, plus:
 - keyword search, facets, spelling, lots more
- View: Processing power of Saxon, plus:
 - large file optimizations, hit markup
- Configure and customize exclusively in XSLT
- Mature, tightly integrated, well documented
- In use at CDL and many other places

Online Archive of California



Search

Related Pages:


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Finding Aids

Images

Texts

Keyword



Tip Truncation: **cloth*** finds cloths, clothing, etc.
Exact phrase: Enter "**Gold Rush**"

[View more search tips](#)

There are roughly 1,000 texts in the Online Archive of California that are available online. These include transcripts of oral histories, personal narratives, letters, press releases, newspaper articles, and other types of documents.

Browse OAC Texts

British Women Romantic Poets ([visit website](#))
[107 documents](#)

California Cultures ([visit website](#))
[3416 documents](#)
[83 oral history transcripts](#)

California Department of Fish and Game *Fish Bulletin* ([visit website](#))
[174 documents](#)

Free Speech Movement Digital Archive ([visit website](#))
[541 documents](#)

Japanese American Relocation Digital Archive (JARDA) ([visit website](#))
[309 documents](#)

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Your search for **apartheid** in *text, title, author, description* found 200 book(s).

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Displaying 1 - 20 of **200** book(s)

Sort by:

Show:

Page: [1](#) [2](#) [3](#) [4](#) [5](#) ... [Next](#)

1.



[Requires cookie*](#)

Title: [The opening of the **Apartheid** mind: options for the new South Africa](#) Public

Author: Adam, Heribert

Published: University of California Press, 1993

Subjects: [African Studies](#) | [Politics](#) | [African History](#)

Publisher's Description: Refusing to be governed by what is fashionable or inoffensive, Heribert Adam and Kogila Moodley frankly address the passions and rationalities that drive politics in post-apartheid South Africa. They argue that the country's quest for democracy is widely misunderstood and that public opinion abroad . . . [\[more\]](#)

Matches in book (247):

...The Opening of the [Apartheid](#) Mind...

...From Anti-[Apartheid](#) to Development...

...the differential experience of [apartheid](#). Material rewards co-opt and "whiten,"...

[Similar Items](#)

2.



Title: [Crossing the line: a year in the land of **apartheid**](#) Public

Author: Finnegan, William

Published: University of California Press, 1994

Subjects: [African Studies](#) | [Politics](#) | [Social Problems](#) | [Autobiography](#) | [Education](#) | [African History](#)

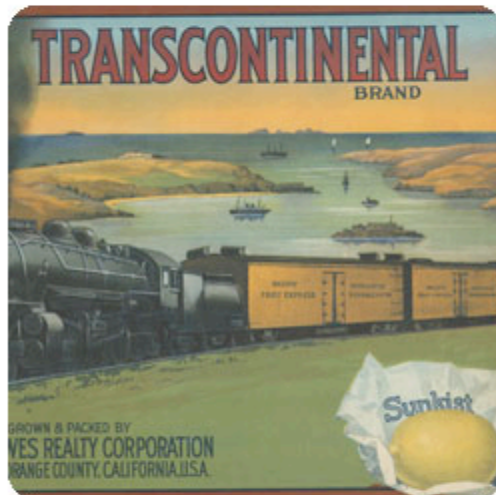
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1-9 A B C D E F G H I J K L

Mark Twain Project Online



Letters

Advanced: New

REFINE RESULTS ?

- Letter Direction
 - incoming (19080)
 - outgoing (11799)
- Availability
 - offline (28658)
 - text (2303)
 - facsimile (98)
- Name
 - Clemens, Samuel L. (23073)
 - Clemens, Olivia L. (1848)
 - Moffett, Samuel E. (1620)
 - Clemens, Orion (1282)
 - Moffett, Pamela A. (1200)
 - more...
- Date Written

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Letters


Online Now

Mark Twain's Letters, 1853–1880

- 1853–1875
 - Texts with annotation
 - These letters were previously published by the Mark Twain Project in six volumes as *Mark Twain's Letters* (1988–2002)
 - 1876–1880
 - Texts with annotation: 1876
 - Texts only: 1877–1880
 - More than 600 letter texts, with some facsimiles of originals
- Coming Next
 - Annotation for 1877 through 1880
 - Previously unpublished letters inserted in their chronological sequence
- Getting Started
- Letters Chronology

All letters now online are listed and linked [here](#), in date order.

"I am a long time answering your letter, my dear Miss Harriet, but then you must remember that it is an equally long time since I received it—so that makes us even, & nobody to blame on either side."
—Mark Twain, 1876



Mark Twain's Letters, 1853–1880

- 1853–1875
 - Texts with annotation
 - These letters were previously published by the Mark Twain Project in six volumes as *Mark Twain's Letters* (1988–2002)
 - 1876–1880
 - Texts with annotation: 1876
 - Texts only: 1877–1880
 - More than 600 letter texts, with some facsimiles of originals
- Coming Next
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—Mark Twain, 1876



UC Berkeley

University of California, Berkeley

EECS TECHNICAL REPORTS

[Search](#) | [Browse by year](#)

Terms: microprocessor
Results: 8 item(s)
Sorted by: [Relevance](#) | [Year](#)

	Relevance
Title: Multimedia Extensions for General Purpose Microprocessors: a Survey	71
Author(s): Slingerland, Nathan Smith, Alan Jay	
Report ID: CSD-00-1124	
Title: Vector Microprocessors	100
Author(s): Krste Asanovic	
Report ID: CSD-98-1014	
Title: Recursive Oscillators on a Fixed-Point Vector Microprocessor for High Performance Phase-Accurate Real-Time Additive Synthesis	61
Author(s): Hodes, Todd David	
Report ID: CSD-98-1007	
Title: Network Interface Specification for the T1 Microprocessor	79
Author(s): Callahan, Timothy J	
Report ID: CSD-94-823	
Title: Analysis of Multithreaded Microprocessors under Multiprogramming	79
Author(s): Culler, David E Gunter, Michial Lee, James C	
Report ID: CSD-92-687	
Title: High Performance Microprocessor Architectures	87

Encyclopedia of Chicago

ENCYCLOPEDIA of CHICAGO

[Entries](#) | [Historical Sources](#) | [Maps](#) | [Special Features](#) | [User's Guide](#)



Full
List

ChicagoHistoryMuseum

293 ITEMS FOUND (30 PAGES)

Page: [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [10](#) | [NEXT](#)

Search Results PAGE 1

Daley's Chicago , Roger Biles (Authored Entry)

...Daley's Chicago...

- 1 ...held in check, resulting in the election of Chicago's first black mayor, Harold Washington, in 1983....
...of Chicago's Bridgeport neighborhood, Richard J. Daley attended parochial elementary and secondary...

Mayors , Melvin G. Holli (Authored Entry)

...Mayors...

- 2 ...for his leadership in school reform, with Chicago's model emulated by several other big city mayors....
...moving and storage company owner; and Richard J. Daley, a former stockyards cowboy out of working-...

Mayor's Commission on Human Relations , Charles E. Clifton (Authored Entry)

...Mayor's Commission on Human Relations...

- 3 ...The Mayor's Commission on Human Relations (1945...
...and 1946) grew out of the Mayor's Committee on Race Relations, appointed by Mayor Edward J. Kelly in...

Inauguration of Mayor Richard J. Daley , (Historical Source)

...Daley...

- 4 ...Inauguration of Mayor Richard J. Daley...

SEARCH

"search request"

Full Results

Authored Entries

Rich Maps and
Interpretative Digital
Essays

Business Dictionary

Biographical Dictionary

Maps Created by the
Encyclopedia Staff

Historical Sources

Timelines and Year Pages

Tables

User's Guide and
Introductory Materials

Full Results

Indiana University: Newton



THE CHYMISTRY OF ISAAC NEWTON

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[Newton & Alchemy](#) | [Reference & Instructional Tools](#) | [Project Info](#)

Search Results

[Modify Search](#) | [Search Again](#)

Your search for: **antimony** in *full text* was found in 4 documents.

[Long Display](#)

1. Keynes MS. 53, King's College Library , Cambridge University (Total Matches: 1)

[Introduction](#) | [Normalized Transcription](#) | [Diplomatic Transcription](#)

Title: Of ye first Gate
Description: A compilation of abbreviated alchemical extracts taken from a variety of sources, sometimes with brief commentary.

Matches in Context:

author of Instructio de arbore solari : Our [Antimony](#), saith Maier , is...

2. Keynes MS. 63, King's College Library , Cambridge University (Total Matches: 2)

[Introduction](#) | [Normalized Transcription](#) | [Diplomatic Transcription](#)

Title: Verses at the end of B. Valentine's mystery of the Microcosm
Description: An English translation of a work by the pseudonymous author

Indiana University: Swinburne



The Swinburne Project

A digital archive of the life and works of Algernon Charles Swinburne
John A. Walsh, Editor

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[\[show document information\]](#)

page: [335]

ERECHTHEUS

A TRAGEDY

ὦ ταῖ λιπαραὶ καὶ ἰοστέφανοι καὶ ἀοίδιμοι
Ἑλλάδος ἔρεισμα, κλειναὶ Ἀθᾶναι δαιμόνιον πτολίεθρον

PIND.*Fr.* 47.

AT.

τίς δὲ ποιμάνωρ ἔπεστι κάπιδεσπόζει στρατο??

XO.

οὔτινος δοῖλοι κέκληνται φωτὸς οὐδ' ὑπηκόοι.

ÆSCH.*Pers.* 241 - 2.

page: [336]

page: [337]

Sweden



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Startsida

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(t.ex. "kultur*")

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Ricerca: «pizza» nel testo

Risultati: 10 Documenti

Ordinamento

[Modifica la ricerca](#) - [Nuova ricerca](#)

- | | | |
|---|--|------|
| 1 | Autore: Giovan Battista Basile
Titolo: Lo cunto de li cunti
Genere: Narrativa
Periodo: 500
Num. occorrenze: 16
Concordanze KWIC: Ordinamento: Testo - Contesto Sx - Contesto Dx | 100% |
| 2 | Autore: Giuseppe Gioachino Belli
Titolo: Sonetti
Genere: Poesia
Periodo: 800
Num. occorrenze: 9
Concordanze KWIC: Ordinamento: Testo - Contesto Sx - Contesto Dx | 91% |
| 3 | Autore: Giovan Battista Basile
Titolo: Le Muse napolitane
Genere: Narrativa
Periodo: 500 | 71% |

How does XTF compare?



** disclaimer: based on my limited experience with Greenstone and Solr*

Community-inspired Development

- First, we asked the XTF community for features they wanted
- Then everybody voted
- People wanted many features they saw in XTF projects at CDL

Aligning Our Process

- Our group was starting a new CDL project
- We aligned our development
- Result: Everybody benefits

New and improved features

- Faceted browse
- Search flexibility
- Bookbag
- Spelling correction
- Similar items
- Other stuff

Faceted browse

- Previously implementing faceted browse required lots of XSLT programming.
- Hierarchical facets: even harder
- Required us to deeply refactor the stylesheets, but now it's simple to add new facets.

Faceted browse

REFINE RESULTS ?

■ Letter Direction

outgoing (65)

■ Availability

offline (43)

text (26)

+ Name

Clemens, Samuel L. (57)

Clemens, Olivia L. (28)

Rogers, Henry H. (7)

Crane, Susan L. (5)

Date▼

Writer▼

Address

21 Jun 1867

Clemens, Samuel L.

Clemens, Jar
family
Clemens, Ja

01 Sep 1867

Clemens, Samuel L.

Clemens, Jar
family
Clemens, Ja

13 Oct 1867

Clemens, Samuel L.

Clemens, Jar
family
Clemens, Ja

Faceted browse

Subject

- [Wine and wine making](#) (5)
- [XML](#) (4)
- [HTML](#) (3)
- [World Wide Web](#) (3)
- [news](#) (3)

[more](#)

Date

- [2007](#) (11)
- [2006](#) (6)
- [2005](#) (11)

1

Author: Bell,

Title: [Alexa](#)

Published: 1999

Subjects: [Aeronautics](#)
[Presidents](#)
[Technology](#)

Similar Items: [Find](#)

2

Author: Clay,

Title: [Henry](#)

Published: 2000

Hierarchical facets

offline (7)

■ Name

Rogers, Henry H.

Clemens, Samuel L. (6)

Clemens, Olivia L. (1)

■ Date Written

■ 1890s (7)

■ 1896 (7)

+ May (2)

+ Jun (5)

20 May 1896

Clemens, Samuel L.

Rogers

06 Jun 1896

Clemens, Samuel L.

Rogers

11 Jun 1896

Clemens, Olivia L.

Rogers

18 Jun 1896

Clemens, Samuel L.

Rogers

19 Jun 1896

Clemens, Samuel L.

Rogers

22 Jun 1896

Clemens, Samuel L.

Rogers

Hierarchical facets

- [news](#) (3)
- [XML](#) (2)
- [peer-reviewed research](#) (2)
- [Expressions Language](#) (1)
- [Stylesheet Language](#) (1)

[more](#)

Date

- ▢ [2007](#)
 - ▢ [01](#)
 - [18](#)(2)
 - [01](#)(8)

Title:

Published:

Subjects:

Similar Items:

2

Author:

Title:

Published:

Subjects:

Similar Items:

Search flexibility

- Keyword search: single box (now default). Internally, searches multiple fields.
- Advanced search: explicitly fill in constraints for various fields
- Freeform search (new): text-based field specifiers, AND, OR, parentheses, etc.

Keyword search

|eXtensible Text Framework|

graphic

Keyword

Advanced

Freeform

Browse

Examples:

africa	<i>Search keywords (full text and metadata) for 'africa'</i>
south africa	<i>Search keywords for 'south' AND 'africa'</i>
"south africa"	<i>Search keywords for the phrase 'south africa'</i>
africa*	<i>Search keywords for the string 'africa' followed by 0 or more characters</i>
africa?	<i>Search keywords for the string 'africa' followed by a single character</i>

Advanced search

|eXtensible Text Framework|

graphic

Keyword

Advanced

Freeform

Browse

Entire Text

☒ all of ☐ any of these words

Exclude

Proximity

word(s)

☒ any
☐ headings
☐ citations

Metadata

Title

Author

Subject

Year(s)

From

to

Type

All

Search

Clear

Examples:

south africa

Search full text for 'south' AND 'africa'

Exclude

race

Exclude results which contain the term 'race'

Proximity

5

Match the full text terms, only if they are 5 or fewer words apart

Section

☒ headings

Match the full text terms, only if they appear in document 'headings' (e.g. chapter titles)

Title

"south africa"

Search for the phrase 'south africa' in the 'title' field

Year(s)

from

2000

to

2005

Search for documents whose date falls in the range from '2000' to '2005'

Freeform search

|eXtensible Text Framework|

graphic

Keyword

Advanced

Freeform

Browse

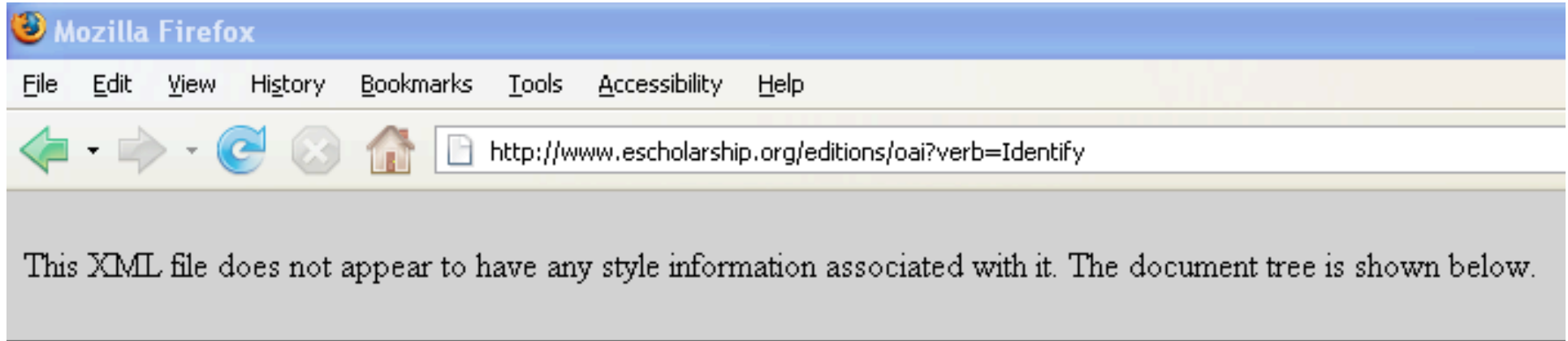
Experimental feature: "Freeform" complex query supporting -/NOT, /OR, &/AND, field names, and parentheses.

Examples:

africa	<i>Search keywords (full text and metadata) for 'africa'</i>
south africa	<i>Search keywords for 'south' AND 'africa'</i>
south & africa	<i>(same)</i>
south AND africa	<i>(same; note 'AND' must be capitalized)</i>
title:south africa	<i>Search title for 'south' AND 'africa'</i>
creator:moodley title:africa	<i>Search creator for 'moodley' AND title for 'africa'</i>
south africa	<i>Search keywords for 'south' OR 'africa'</i>
south OR africa	<i>(same; note 'OR' must be capitalized)</i>
africa -south	<i>Search keywords for 'africa' not near 'south'</i>
africa NOT south	<i>(same; note 'NOT' must be capitalized)</i>
title:africa -south	<i>Search title for 'africa' not near 'south'</i>
title:africa subject:-politics	<i>Search items with 'africa' in title but not 'politics' in subject. Note '-' must follow ':'</i>

OAI-PMH

- This fit nicely into XTF's architecture
- Simple but conforming implementation



```
- <OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/
  <responseDate>2008-04-17T13:34:34Z</responseDate>
  - <request verb="Identify">
    http://www.escholarship.org/editions/oai?verb=Identify
  </request>
  - <Identify>
    <repositoryName>eScholarship Repository</repositoryName>
    <baseURL>http://stage.escholarship.org/editions/oai</baseURL>
    <protocolVersion>2.0</protocolVersion>
    <adminEmail>kirk.hastings@ucop.edu</adminEmail>
    <earliestDatestamp>1942-01-01</earliestDatestamp>
    <deletedRecord>transient</deletedRecord>
    <granularity>YYYY-MM-DD</granularity>
  </Identify>
</OAI-PMH>
```

Bookbag

- Refactored the AJAX to use YUI (Yahoo User Interface widgets)
- Still session based
- Now supports emailing the bookbag

Bookbag



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| Delete | SLC to Jane Lampton Clemens and Family, 21 and 29 June; 1, 3, and 5 July 1867, Azores, Portugal (<i>UCCL 00139</i>). 1990, 2007.
< http://www.marktwainproject.org/xtf/view?docId=letters/UCCL00139.xml;style=letter;brand=mtp > |
| Delete | SLC to Mary Mason Fairbanks, 20 Feb 1868, Washington, D.C. (<i>UCCL 00196</i>). 1990, 2007.
< http://www.marktwainproject.org/xtf/view?docId=letters/UCCL00196.xml;style=letter;brand=mtp > |
| Delete | SLC to OLC, 11 Sept 1872, London, England (<i>UCCL 00805</i>). 1997, 2007.
< http://www.marktwainproject.org/xtf/view?docId=letters/UCCL00805.xml;style=letter;brand=mtp > |

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Delete	SLC to OLC, 11 Sept 1872, London, England (<i>UCCL 00805</i>). 1997, 2007. < http://www.marktwainproject.org/xtf/view?docId=letters/UCCL00805.xml;style=letter;brand=mtp >

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Address:


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UCCL 00139). 1990, 2007.

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Sorted by:

Page: 1

1

Author: Ellison, R

[Delete](#)

Title: [Papers of](#)

Published: 1997

Subjects: [African Ar](#)

Similar Items: [Find](#)

Bookbag

|eXtensible Text Framework|


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Bookbag: 3 Items
Sorted by:

1

Author: Ellison, Ralph
Title: [Papers of Ralph Ellison 1890-1996](#)
Published: 1997
Subjects: [African American authors](#) | [America](#)
Similar Items: [Find](#)


[Delete](#)

2

Author: David Attwell
Title: [J. M. Coetzee: South Africa and the Politics of Writing](#) 
Published: 1993
Subjects: [South Africa](#) | [African History](#)
Similar Items: [Find](#)


[Delete](#)

3

Author: Heribert Adam and Kogila Moodley
Title: [The Opening of the Apartheid Mind: Options for the New South Africa](#) 
Published: 1993
Subjects: [African Studies](#) | [Politics](#) | [African History](#)
Similar Items: [Find](#)

[Delete](#)

http://dev.escholarship.org - E-mail My Bookbag: Get Address - ...

|eXtensible Text Framework| 

E-mail My Bookbag
Address:

Done

Search Results

[Title](#) | [Author](#)

Page: 1

Spelling correction

- Unicode bug fixes
- On by default and fully integrated

Spelling correction

ch > Browse > Bookbag

[Basic Search](#)

Advanced Search

Search books for:

Your search for **californai** in *title* found 0 book(s).
Did you mean to search for california?

Helpful hints to improve your results:

Try simple and direct words (example: if you want to find books on archeo
"archeological digs").

Spelling correction

|eXtensible Text Framework|

Search: **californai** in keywords [X]

Did you mean to search for **california**?

Results: 0 Items

Sorry, no results...

Try modifying your search:

Similar items

- Allows user to see “more like this”
- Improved AJAX integration
- On by default - no configuration needed


Similar items

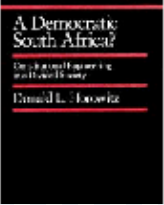
Your request for similar items found 20 book(s).

[Modify Search](#)

Displaying 1 - 20 of **20** book(s)

Sort by: Show:

- 

Title: [The opening of the Apartheid mind: options for the new South Africa](#) Public
Author: Adam, Heribert
Published: University of California Press, 1993
Subjects: [African Studies](#) | [Politics](#) | [African History](#)
Publisher's Description: Refusing to be governed by what is fashionable or inoffensive, Heribert Adam and Kogila Moodley frankly address the passions and rationalities that drive politics in post-apartheid South Africa. They argue that the country's quest for democracy is widely misunderstood and that public opinion abroad . . . [\[more\]](#)
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- 

Title: [A democratic South Africa?: constitutional engineering in a divided society](#) Public
Author: Horowitz, Donald L
Published: University of California Press, 1991
Subjects: [Politics](#) | [African Studies](#) | [Sociology](#) | [Law](#)
Publisher's Description: Can a society as deeply divided as South Africa become democratic? In a most timely work, Donald L. Horowitz, author of the acclaimed Ethnic Groups in Conflict , points to the conditions that make democracy an improbable outcome in South Africa. At the same time, he identifies ways to

Similar items

Author: Heribert Adam and Kogila Moodley

Add

Title: [The Opening of the Apartheid Mind: Options for the New South Africa](#) 

Published: 1993

Subjects: [African Studies](#) | [Politics](#) | [African History](#)

Matches: ...Options for the New South [Africa](#)...
682 hit(s) ...Perspectives on Southern [Africa](#)...
...South [Africa](#) in Comparative Perspective...

Similar Items:

1. David Attwell. [J. M. Coetzee: South Africa and the Politics of Writing](#). 1993.
2. Roy Richard Grinker, III. [Houses in the Rainforest: Ethnicity and Inequality Among Farmers and Foragers in Central Africa](#). 1994.
3. Ellison, Ralph. [Papers of Ralph Ellison 1890-1996 \(bulk 1933-1990\)](#). 1997.
4. Meera Khare. [The Wine-Cup in Mughal Court Culture—From Hedonism to Kingship](#). 2005.
5. Cheng, Lailiang. [Conclusions for 3 Years of Study on the Effect of Drought Stress and Available Nitrogen on Formation of Atypical Aging Flavor Defect in Wine](#). 2005.

Other changes in XTF 2.1

- Built-in NLM “Blue”, TEI P5, MS Word support (still support TEI P4, EAD, PDF, HTML, text)
- Valid XHTML output
- RawQuery servlet to provide a query back-end to a (e.g. Ruby) front-end or mash-up.
- Bug fixes and minor changes (many reported/requested by users)

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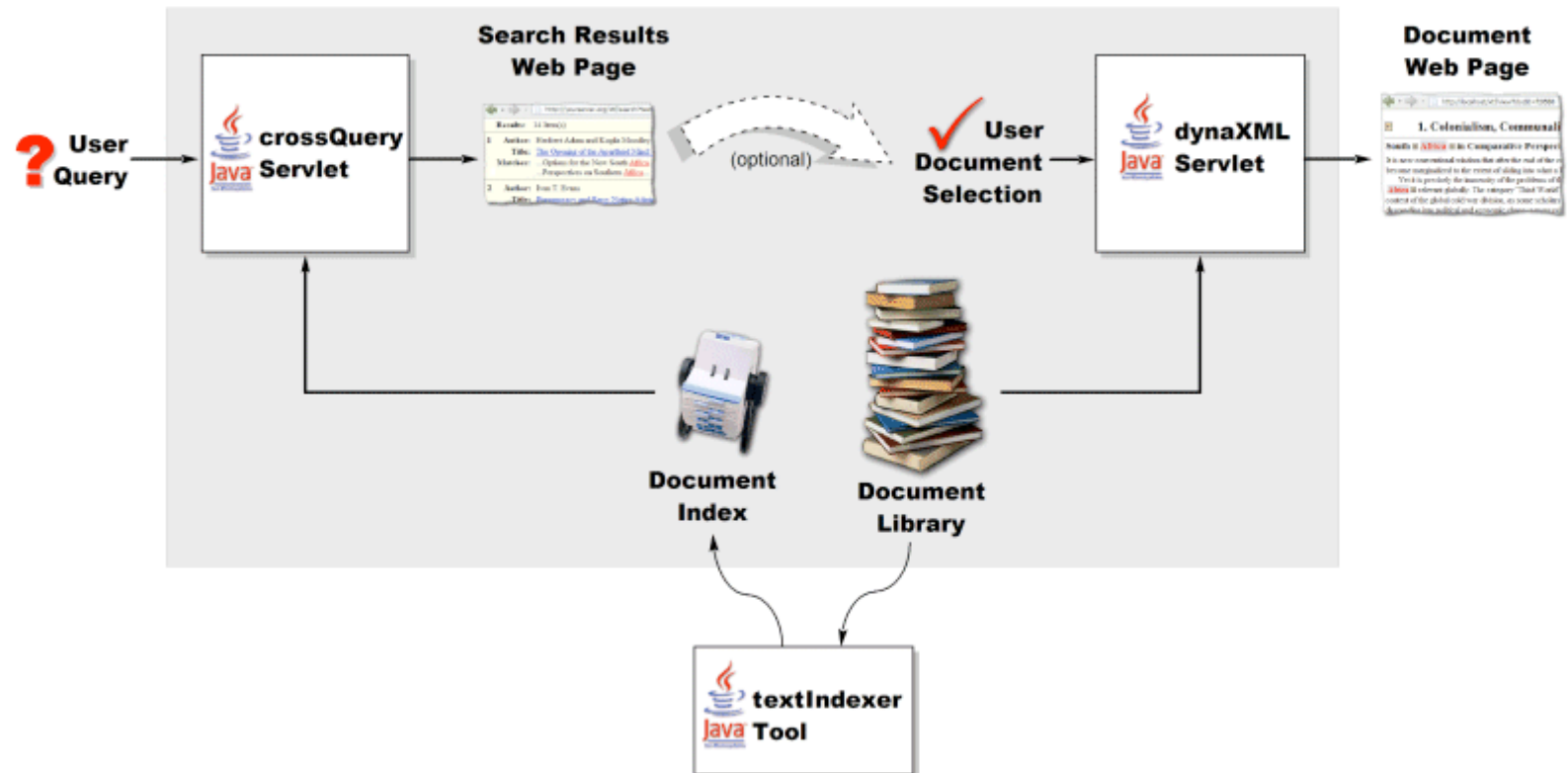
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Wiki documentation

This guide describes the installation and configuration of the Extensible Text Framework (ETF).

The **XTF** system consists of Java Servlets and tools that permit users to perform Web-based searching and retrieval of electronic documents. Its basic organization can be illustrated as follows:



In this diagram, the basic flow of information is left to right. Document retrieval begins with a Web-based user search query. The **crossQuery** servlet checks the query against an index of available documents, and produces a list of matching documents for display in a web browser. Selecting a document from the search results page involves the **dynaXML** servlet

On the horizon

- A page-turner for scanned texts and converted PDFs
- Pop-up image/PDF page snippets
- Background auto-warming, to speed response after incremental indexing
- And of course, features suggested as users upgrade to or adopt XTF 2.1

Philosophy

- Adaptation through programming
- XTF is still about building what you want using a set of powerful tools

But now:

- Stylesheets are more modular
- Build interfaces faster using honed widgets
- Prettier UI to start with

Fin

- Project: xtf.sourceforge.net
- Docs: xtf.wiki.sourceforge.net
- Discuss: groups.google.com/group/xtf-user
- This talk: xtf.sourceforge.net/talks/20080429.ppt
- Me: martin.haye@ucop.edu