

# eXtensible Text Framework (XTF) in 300 seconds

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# some XTF basics

- Technology developed and maintained by the California Digital Library
- Supports the search/display of digital collections (images, PDFs, EAD finding aids, books in TEI...)
- Fully open source platform; based on Apache Lucene search toolkit

## XTF Implementations

### CDL Implementations

The CDL uses XTF as a building block for many production services, including:

 <p><b>eScholarship</b> University of California</p>	<p>Search and display of the scholarly output of the University of California through full-text search and descriptive metadata</p> <p><a href="http://www.escholarship.org/">http://www.escholarship.org/</a></p>
 <p><b>OAC</b> Online Archive of California</p>	<p>Search and display of finding aids, images, and text in the Online Archive of California through full-text search and descriptive metadata</p> <p><a href="http://www.oac.cdlib.org/">http://www.oac.cdlib.org/</a></p>
 <p><b>calisphere</b></p>	<p>Search and display of Calisphere's 150,000 non-textual, primary-source items through descriptive metadata</p> <p><a href="http://www.calisphere.universityofcalifornia.edu/">http://www.calisphere.universityofcalifornia.edu/</a></p>
 <p><b>MARK TWAIN PROJECT</b></p>	<p>Simultaneous and rich access to customized object views and highly specialized textual annotations</p> <p><a href="http://www.marktwainproject.org/">http://www.marktwainproject.org/</a></p>
 <p><b>UNIVERSITY OF CALIFORNIA PRESS</b></p>	<p>Search and display of monographs published by the University of California through full-text search and descriptive metadata</p> <p><a href="http://publishing.cdlib.org/ucpressebooks/">http://publishing.cdlib.org/ucpressebooks/</a></p>
 <p>University of California <b>CDL</b> California Digital Library</p>	<p>Full-text searching within a WordPress context</p> <p><a href="http://www.cdlib.org/">http://www.cdlib.org/</a></p>

### CDL Partnership Implementations

SNAC: The Social Networks and Archival Context Project (prototype)

#### Latest XTF News

- ▶ [XTF 3.0 Released](#)
- ▶ [XTF 3.0 beta](#)
- ▶ [XTF Website Launched](#)
- ▶ [XTF Community Preview](#)
- ▶ [XTF 2.2 released](#)

#### Subscribe to XTF News

- ▶ [RSS](#)

# some XTF basics

- Java framework; runs in Tomcat or Jetty servlet engine
- Extensive customization possible through XSLT programming
- User and Developer group communication through Google Groups

# Naval Reactors History Database

 [Keyword](#)
 Advanced

 Freeform

 Browse




## Examples:

*Search keywords (full text and metadata) for 'nautilus'*

*Search keywords for 's1w' AND 'prototype'*

*Search keywords for the phrase 'los angeles'*

*Search keywords for 'shippingport' and 'shield' (with 'shield' followed by zero or more characters)*

*Search keywords for the words 'space,' 'reactor,' and 'system'; items with 'systems' also returned*



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Newport News Shipbuilding (NNS) takes over management of the Kesselring site, home of the S7G MARF and S8G prototypes  
<http://t.co/Xay4hwsK>

# Naval Reactors History Database








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# Naval Reactors History Database

Search: **nimitz** and **class** in keywords [\[X\]](#) [Favorites \(0\)](#)

Results: 20 items [RSS](#) | [Modify Search](#) | [New Search](#)

Sorted by: Relevance  Browse by [Facet](#) | [Title](#)

Page: 1 [2](#) [Next](#)

### Subject

- [Naval Reactors](#) (20)
- [Budgetary information](#) (11)
- [A4W](#) (5)
- [A2W](#) (3)
- [USS Enterprise \(CVN-65\)](#) (3)

[more](#)

### Date

- [2011](#) (3)
- [2010](#) (6)
- [2009](#) (1)
- [2007](#) (2)
- [2006](#) (1)

**1**

**Title:** [The Eisenhower \(CVN-69\), second Nimitz-class carrier](#) [Add](#)

**Description:** The USS Dwight D. Eisenhower (CVN-69) being guided to its berth at the Norfolk Naval Shipyard. It is the second **Nimitz-class** carrier and is powered by two A4W reactors.

**File source:** [http://www.navy.mil/view\\_single.asp?id=91454](http://www.navy.mil/view_single.asp?id=91454)

**Date:** 08 September 2010

**Subject(s):** [A4W](#) | [USS Dwight D. Eisenhower \(CVN-69\)](#) | [Naval Reactors](#)

**Matches:** ...Va. ( Sept. 8, 2010) Tugboats guide the **Nimitz-class** aircraft carrier (2 hits in image metadata) USS Dwight D. Eisenhower (CVN...  
...N-4056M-002 PORTSMOUTH,VA (Sept. 8, 2010) **Nimitz-Class** aircraft carrier USS Dwight D. Eisenhower (...)

**Type:** Image

**Format:** jpeg

**Similar items:** [Find](#)



*crossQuery* Step 4 [\[Previous\]](#) [\[Next\]](#)

[Step 1](#)

Raw URL  
parameters

--> Query  
Router

[Step 2](#)

--> Tokenized URL  
parameters

--> Query  
Parser

[Step 3](#)

--> XML  
query

--> Text  
Engine

**Step 4**

**Raw  
results**

--> Result  
Formatter

[Step 5](#)

--> Formatted  
results

In step 4, XTF's **Text Engine** has executed the XML query from [step 3](#) to produce raw search results, shown below. These will be fed in turn to the **Result Formatter** stylesheet to produce the final HTML page in [step 5](#).

```
- <docHit rank="5" path="default:jpeg/087/087.jpeg" score="0" totalHits="1">
  - <meta>
    <contributor>Al Cornish</contributor>
    <creator/>
    <date>2011-09-26</date>
    <dateStamp>2011-01-01</dateStamp>
  - <description>
    The USS Abraham Lincoln in an underway replenishment with the USNS Guadalupe (center) and the guided-missile cruiser USS Cape
    St. George (
  - <snippet rank="1" score="100">
    left). The Abraham Lincoln is the fifth
  - <hit>
    <term>Nimitz</term>
    -
    <term>class</term>
  </hit>
    aircraft carrier and was constructed by
  </snippet>
    Newport News Shipbuilding.
  </description>
  <format>jpeg</format>
  <identifier>jpeg087</identifier>
  <language>en-US</language>
  <source>http://www.navy.mil/view_single.asp?id=107850</source>
  <title>USS Abraham Lincoln being replenished at sea</title>
```

```
<td class="col2">
  <b>Matches:</b>
  <br />
  <xsl:if test="meta/type='Image'">
    <xsl:text></xsl:text> <xsl:value-of select="@totalHits"/>
    <xsl:value-of select="if (@totalHits = 1) then ' hit in image metadata)'
      else ' hits in image metadata) '"/>
  </xsl:if>
  <xsl:if test="meta/type='Text'">
    <xsl:text></xsl:text><xsl:value-of select="@totalHits"/>
    <xsl:value-of select="if (@totalHits = 1) then ' hit in text)'
      else ' hits in text) '"/>
  </xsl:if>
</td>
```

Firefox

Naval Reactors History Database

navalreactorshistorydb.info:8080/xtf/search?keyword=nimitz+class

PDF version PDF version Most Visited Getting Started Latest Headlines

Format: jpeg  
Similar items: [Find](#)

6      **Title:** [Department of Energy FY 2010 budget request \(includes NNSA and Naval Reactors requests\)](#)      [Add](#)

**Description:** This document describes the fiscal year 2010 budget request for Naval Reactors, as part of the larger National Nuclear Security Administration request. The Naval Reactors request for FY 2010 was just over one billion dollars. The document describes the major achievements of Naval Reactors in FY 2008, including the completion of sea trials for the USS George H.W. Bush, the last **Nimitz-class** carrier and the completion of 85 percent of the A1B design work for the successor **class** of nuclear-powered carriers. Additionally, two Virginia-class submarines were commissioned, bringing the total for the **class** to five. Several strategic areas are identified going forward, including a propulsion plant for the successor to the Ohio-class ballistic missile submarines; the refueling of the S8G (Ohio) prototype plant; and, investing in the program's spent fuel processing infrastructure. Summaries of the work of the divisions within Naval Reactors are included in the budget request.

**File source:** <http://www.doe.gov/budget/10budget/Content/Volumes/Volume1.pdf>

**Date:** 2009

**Subject(s):** [Budgetary information](#) | [Naval Reactors](#)

**Matches:** ...Achievements ? Concluded sea trials for the last **NIMITZ-class** (1 hit in text) aircraft carrier, the USS GEORGE H.W....

**Type:** Text

**Format:** pdf

**Similar items:** [Find](#)

7      **Title:** [The USS George Bush underway](#)      [Add](#)

**Description:** The USS George H.W. Bush (CVN-77) at sea in the Atlantic Ocean. The George Bush is the tenth and final **Nimitz-class** carrier. It is powered by two A4W reactor plants.

**File source:** [http://www.navy.mil/view\\_single.asp?id=95333](http://www.navy.mil/view_single.asp?id=95333)