THE RISING SUN:
Making the most of Solr power

code4lib '09, Providence, RI
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#9 Performance

- Measure
#8 Memory

- `omitNorms`
- `omitTf (1.4)`
#7 Query Parsing

"It Depends"

More Like This:
http://www.lucidimagination.com/blog/2009/02/22/exploring-query-parsers/
#6 Data Import

- DIH, Solr Cell, CSV, LuSql, APIs,...
- solr-ruby Mapper
Obligatory XML

```xml
<root>
  <parent>
    <child attribute="attribute1">text1</child>
    <child attribute="attribute2">text2</child>
  </parent>
</root>
```

def test_simple_xpath
    mapping = {
        :solr_field1 => './root/parent/child',
        :solr_field2 => './root/parent/child/@attribute'
    }

    mapper = Solr::Importer::XPathMapper.new(mapping)
    mapped_data = mapper.map(@doc)

    assert_equal ['text1', 'text2'], mapped_data[:solr_field1]
    assert_equal ['attribute1', 'attribute2'], mapped_data[:solr_field2]
end
#5 Request Handlers

- Leverage Solr's configurability
http://localhost:8983/solr/timeline.xml

```
<requestHandler class="solr.SearchHandler" name="/timeline.xml">
  <lst name="defaults">
    <str name="defType">dismax</str>
    <str name="q.alt">*:*</str>
    <str name="rows">10</str>
    <str name="fl">*,score</str>
    <str name="qf">
      content subject^2 title^5
    </str>
  </lst>
  <lst name="invariants">
    <str name="wt">xslt</str>
    <str name="tr">timeline.xsl</str>
  </lst>
</requestHandler>
```
#4 Solr as IR toolkit

- TermVectorRequestHandler
- StatsComponent
- Luke
#3 LocalSolr

geo searching
#2 Faceting

- Solr 1.4 performance! (*bows* to Yonik)
- Multi-select
Multi-select faceting

The Interface is the App
**SOLRJS**

**SOLRJS Demonstration**

Browse REUTERS business news from 1987

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**Current Selection**

(x) allText: "Iraq"

**Search**

( press ESC to close suggestions)

---

**Top Topics**

carcass, corn, cotton, CPI, crude, ear, fuel, gas, grain, heat, interest, livestock, lumber, meal, feed, money, FX, naptha, oilseed, pet-chem, plywood, propane, reserves, ship, soy-meal, soy-oil, soybean, sugar, veg-oil, wheat

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**Top Organisations**

crude

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**Top Exchanges**

not items found in current selection

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**By Country**

view the World

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**IRAN ANNOUNCES NEW OFFENSIVE IN GULF WAR**

LONDON, March 4 - Iran announced it had launched a new offensive against Iraq in the north-west area of the Gulf war front. Tehran radio, monitored by the British Broadcasting Corporation, said the attack was launched last night in the Haj Omran area of northern Iraq. It had already achieved "considerable vic more"

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**IRAQ REJECTS NEW OPEC OIL QUOTA**

crude

BAGHDAD, June 29 - Iraq has rejected its new OPEC production quota set in Vienna for the second half of this year, the official Iraqi news agency INA reported. It quoted Oil Minister Issam Abdul-Rahim al-Chalabi, who returned Sunday, as saying "Iraq will continue to adhere to its position considering itself as not more"

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**IRAQ-TURKEY OIL PIPELINE CUT BY LANDSLIDE**

crude

ANKARA, March 8 - Engineers are working to repair the Iraq-Turkey oil pipeline near the southern town of Adana after it was cut by a landslide, the Hurriyet and Anatolian news agencies said. Little oil was lost in the landslide Friday night because taps on the one mln bpd line were switched off after the accident, they said. The pipeline, which carr more

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**BRAZIL TO EXPORT POULTRY, MEAT TO IRAQ FOR OIL**

crude, livestock, carcass

RIO DE JANEIRO, April 2 - Brazil will export 6,000 tonnes of poultry and 10,000 tonnes of frozen meat to Iraq in exchange for oil, Petrobras Commercial Director Carlos Sant'Anna said. Brazil has a barter deal with Iraq and currently imports 215,000 barrels per day of oil, of which 170,000 bpd are paid for with exports of more

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**IRAQ SAYS ITS FORCES SINK THREE IRANIAN VESSELS**

crude

BAGHDAD, April 3 - Iraq said its forces sank three Iranian boats which tried to approach its disused deep water oil terminal in the northern Gulf today. A military spokesman more
Solritas

Velocity templated response
#0 Community

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"LucidFind"

http://www.lucidimagination.com/search
find@lucidimagination.com
Lucid Supports Solr

lucidimagination.com

Thinking Lucene ▾ Think Lucid.
Lucid Articles

- Grant Ingersoll
  - Getting Started with Lucene
  - Debugging Relevance Issues in Search
  - Optimizing Findability in Lucene and Solr
- Yonik Seeley
  - Faceted Search with Solr
- Erik Hatcher
  - Getting Started with Solr (includes screencast), co-authored with Jonathan Knudsen
- Sami Siren
  - Content Extraction with Tika
- Mark Miller
  - Scaling Lucene and Solr
Lucid Podcasts

- Interviews with:
  - Doug Cutting (creator of Lucene)
  - Ryan McKinley (Solr committer)
  - Chris Hostetter (Solr committer)
- More coming!
Mark Miller: "Exploring Query Parsers", "Highlighting Highlighter Thoughts", "Investigating OOM and other JVM issues", "Looking forward to new features in Solr 1.4"

Erik Hatcher: "acts_as_solr with rich document indexing"

Grant Ingersoll: "Sorting, Faceting, and Schema Design in Solr"
Pre-release ebook available now!
The Good Ol' Blues Brothers Boys