



IBM Information Management Software

Enriched Content Browsing

Textanalyse meets Web 2.0:

*Eine Technologiestudie zur automatisierten
Anreicherung von Web Inhalten*

Holger Seubert
holger.seubert@de.ibm.com
IBM Information Management

Agenda

Motivation

Architektur

Technologie-Bausteine

Letzte Woche auf *heise online* ...

heise online - 20.09.08 - Sarah Palin: Der Mail-Hack, der keiner war - Mozilla Firefox: IBM Edition

File Edit View History Bookmarks Tools Help

http://www.heise.de/newsticker/Sarah-Palin-D

IBM DB2 Linux DataStudio Rational Collaboration Travel Shop Informix

Home Newsticker 7-Tage-News News-Archiv Leserforum

heise online > News > 2008 > KW 38 > Sarah Palin: Der Mail-Hack, der keiner war

20.09.2008 10:37 « Vorige | Nächste »

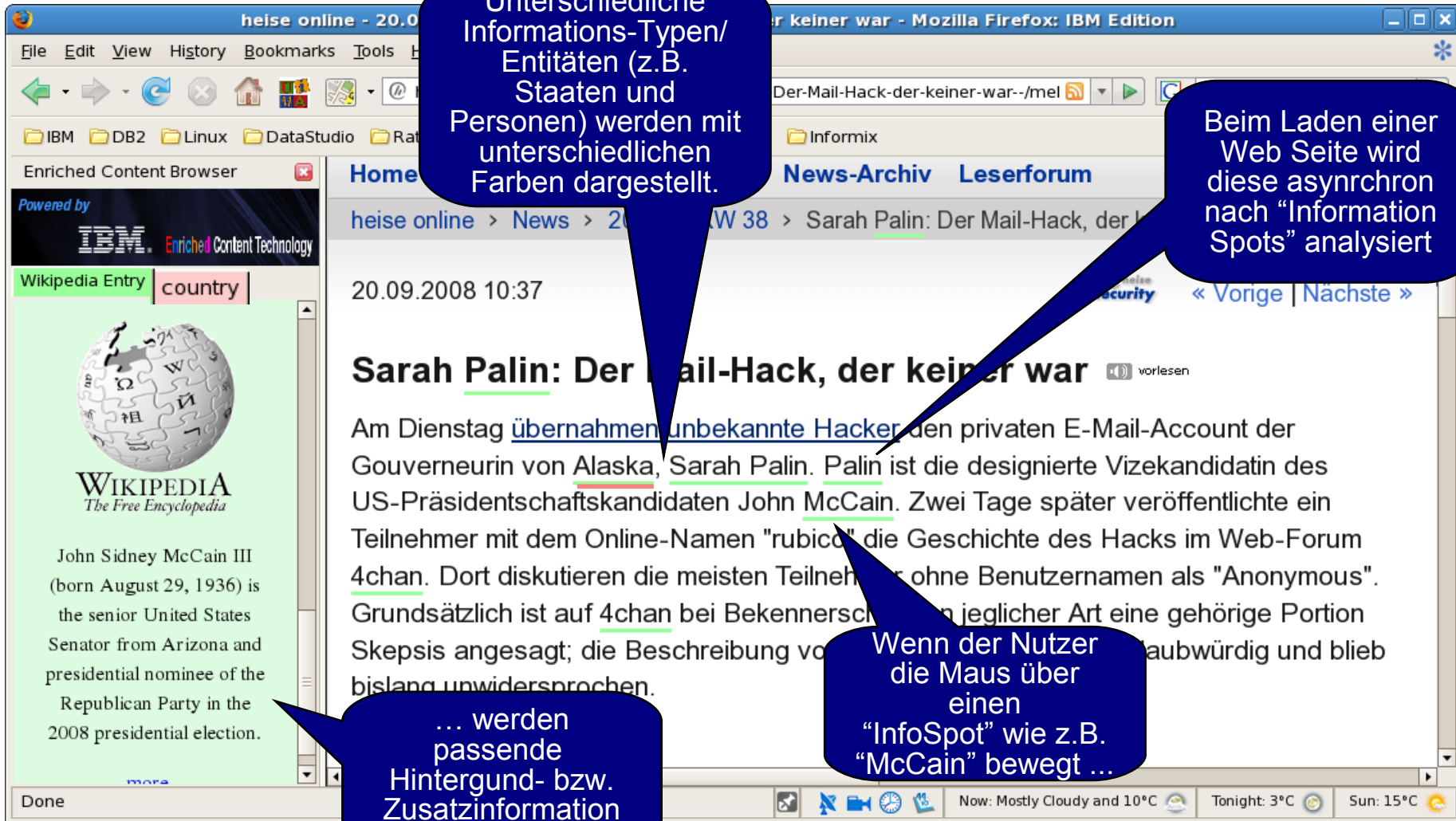
Sarah Palin: Der Mail-Hack, der keiner war

Am Dienstag übernahmen unbekannte Hacker den privaten E-Mail-Account der Gouverneurin von Alaska Sarah Palin. Palin ist die designierte Vizekandidatin des US-Präsidentschaftskandidaten John McCain. Zwei Tage später veröffentlichte ein Teilnehmer mit dem Online-Namen "rubico" die Geschichte des Hacks im Web-Forum 4chan. Dort diskutieren die meisten Teilnehmer ohne Benutzernamen als "Anonymous". Grundsätzlich ist auf 4chan bei Bekennerschreiben jeglicher Art eine gehörige Portion Skepsis angesagt; die Beschreibung von Rubico wirkt allerdings glaubwürdig und blieb bislang unwidersprochen.

Done Now: Mostly Cloudy and 11°C Tonight: 4°C Tue: 14°C

*Quelle: <http://www.heise.de/newsticker/Sarah-Palin-Der-Mail-Hack-der-keiner-war--/meldung/116255>

Letzte Woche auf *heise online* ...



Unterschiedliche Informations-Typen/ Entitäten (z.B. Staaten und Personen) werden mit unterschiedlichen Farben dargestellt.

Beim Laden einer Web Seite wird diese asynchron nach "Information Spots" analysiert

Wenn der Nutzer die Maus über einen "InfoSpot" wie z.B. "McCain" bewegt ...

... werden passende Hintergrund- bzw. Zusatzinformation angezeigt

*Quelle: <http://www.heise.de/newsticker/Sarah-Palins-Der-Mail-Hack-der-keiner-war--/meldung/116255>

Motivation

- Das Ziel von Enriched Content Browsing (ECB) ist es **Web-Inhalte besser und vollständiger zu verstehen**:
 - Enriched Content Browsing **spart Zeit** bei der Suche nach weiteren Informationen/ Hintergrundinformation
 - Erleichtert ein **besseres Verständniss** des Inhalts mit minimalem Aufwand
 - Sammelt Hintergrundinformationen aus unterschiedlichen Quellen um **bessere Entscheidungen** zu treffen
 - Zugriff auf weitere Informationen ist **schnell und unkompliziert**
- Enriched Content Browsing nutzt Web 2.0 Technologien zur **automatischen Anreicherung** von Web Inhalten mit **Hintergrundinformationen** mit dem Ziel die **Informationsbedürfnisse** des Nutzers zu antizipieren
 - Der Nutzer soll seine **momentane Anwendung (Kontext) nicht verlassen** müssen, um nach fehlenden Informationen zu suchen
 - Enriched Content Browsing hat **keine qualitativ bessere Suche** als Ziel, sondern vermeidet explizite, zusätzliche Suchanfragen in einem anderen Kontext
 - Ein Informationsbedürfnis zufrieden zu stellen kann mehr sein als eine reine Internetsuche. Dabei kann auch das Nachschlagen von bestimmten Begriffen, Wetter oder Kontaktinformationen von Personen eine Rolle spielen (**Informationsbreite**)

Agenda

Motivation

Architektur

Technologie-Bausteine

Architektur



ECB hat eine offene Architektur die Info Spotter Services zur Erkennung von Entitäten (z.B. Devisen) mit Lookup Services kombiniert, die weitere Informationen zu den erkannten Entitäten anzeigen (z.B. Wechselkursinformationen)

Mit "Information Spots" angereicherte Web Seite (Ajax)

Service Integration Layer
(Firefox plugin)

Rest APIs

- Info Spotter Service 1
(Wikipedia Entry Detector)
- Info Spotter Service 2
(Currency Amount Detector)
- Info Spotter Service 3
(IBM Employee Detector)
- Info Spotter Service n
(...)

- Der **Service Integration Layer** parsed Web Seiten und schickt den extrahierten Text zu den konfigurierten Info Spotter Services, wartet dann auf die Spotter Resultate und erweitert schließlich die Web Seite mit JavaScript Triggern für die Lookup Services (asynchron).
- Die **erweiterte Web Seite** triggert den Service Integration Layer einen Lookup Services asynchron bei einem Mouse Over Event aufzurufen

- Lookup Service 1
(Wikipedia Summarizer)
- Lookup Service 2
(Currency Converter)
- Lookup Service 3
(Bluepages Lookup)
- Lookup Service n
(...)

Architektur



Information Spots Enriched Web Page (Ajax)

Service Integration Layer
(Firefox Plugin)

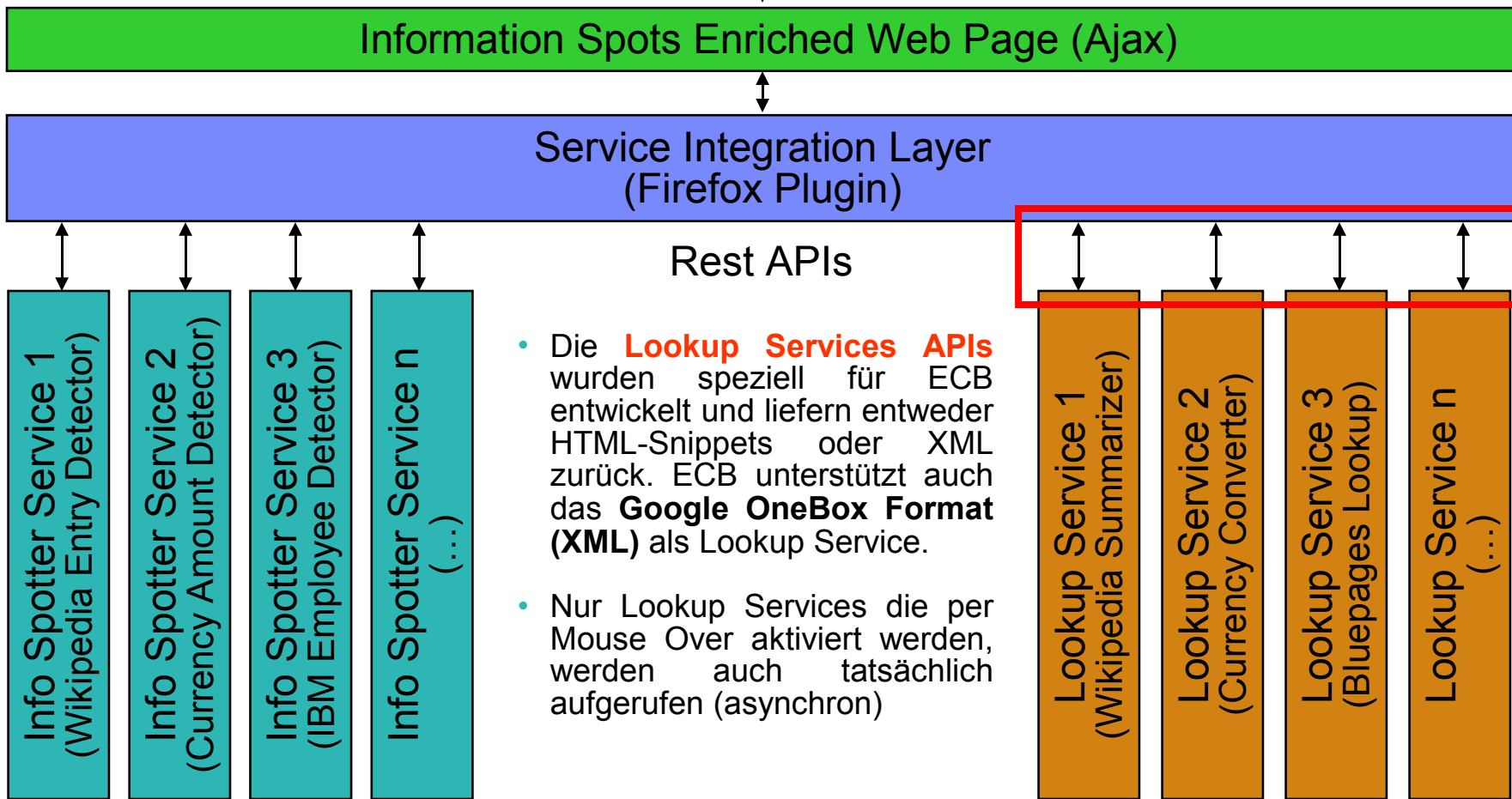
Rest APIs

- Info Spotter Service 1
(Wikipedia Entry Detector)
- Info Spotter Service 2
(Currency Amount Detector)
- Info Spotter Service 3
(IBM Employee Detector)
- Info Spotter Service n
(...)

- Die **Info Spotter Services APIs** sind neue REST-style UIMA services, die momentan in der OASIS UIMA TC zwecks Standardisierung diskutiert werden
- Alle Info Spotter Services der aktiven Konfiguration werden für eine Web Seite aufgerufen, um eine inhaltlich erweiterte Version der Web Seite zu erstellen

- Lookup Service 1
(Wikipedia Summarizer)
- Lookup Service 2
(Currency Converter)
- Lookup Service 3
(Bluepages Lookup)
- Lookup Service n
(...)

Architektur



- Die **Lookup Services APIs** wurden speziell für ECB entwickelt und liefern entweder HTML-Snippets oder XML zurück. ECB unterstützt auch das **Google OneBox Format (XML)** als Lookup Service.
- Nur Lookup Services die per Mouse Over aktiviert werden, werden auch tatsächlich aufgerufen (asynchron)

Zuordnung von InfoSpotter & Lookup

ECB hat offene Schnittstellen, die eine Kombination von zwei REST Services ermöglichen

The screenshot shows the 'Preferences' dialog box in the IBM Enriched Content Browser. The 'Services' tab is selected, showing two columns of services. In the 'Uima Services' column, 'Wikipedia Entry' is highlighted with a blue selection bar and a red dashed box. In the 'Lookup Services' column, 'Wikipedia Lookup' is also highlighted with a red dashed box. A 'Connect' button is circled with a red dashed line below the Uima Services list. The background window shows a Wikipedia article snippet for John Sidney McCain III.

Information Spotter Services (z.B. UIMA Services) können kombiniert werden mit ...

... mit Lookup Services die Hintergrund-information ermitteln, die zusätzlich dargestellt werden können

Mix & Match von Informationen und Services

Enriched content browser
Powered by **IBM** Enriched Content Technology

Band: **Amy Winehouse**

- [Back to Black](#)
- [Frank](#)
- [Back to Black \(Clean Version\)](#)
- [Love Is a Losing Game](#)
- [Valerie](#)
- [Back to Black \(Vinyl\)](#)
- [Maximum Amy Winehouse](#)
- [Frank \(Edited Version\)](#)
- [Tears Dry on Their Own](#)
- [Back to Black](#)

The New York Times Music

Individual Retirement Account
The sooner you start, the better.

Amy Winehouse Wins Big at Grammy Awards
By JEFF LEEDS
Published: February 11, 2008

LOS ANGELES — Amy Winehouse, the troubled soul singer with the darkly self-referential hit “Rehab,” failed to show up in person at the 50th annual Grammy Awards in person, but she proved a dominant figure nonetheless, picking up five trophies as voters kept her in competition with the rap star Kanye West.

Both of them, however, were on the sidelines for the night of the album of the year, which was won by the jazz mainstay Herbie Hancock.

Ms. Winehouse won awards in two of the most prestigious categories, for best album and best single “Rehab,” about her recent substance abuse. She performed on the program via satellite from London, where her tabloid-ready lifestyle recently prompted her to enter a rehabilitation center.

Looking stunned and strangely nervous, she won for record of the year, she was also named best new artist, referring to Blake Fielder-Civil, who was jailed for his involvement in a scandal.

Ms. Winehouse also won for best album for “Rehab” and best pop vocal for “Rehab.”

... **mit beliebigen Lookup-Services (z.B. Amazon Informationen mit Links um das Album zu spielen) kombiniert werden**

Dabei können gefundene Informationen ...

Ausgelöst durch ein “mouse over”

6. Obama's Lead in Delegates Shifts Focus of Campaign
7. Op-Ed Contributor: Totally Spent
8. Parent Shock: Children Are Not Décor
9. Gail Collins: Notes From a Caucus
10. Maureen Dowd: A Flawed Feminist Test

The New York Times REAL ESTATE
nytimes.com/realestate

Einige Beispiel-Services

Wikipedia Entry Detector Erkennt Information Spots für die Wikipedia Einträge existieren	<i>Holt eine Zusammenfassung des Wikipedia Artikels</i>
Währung Erkennt Beträge einer Währung auf Basis regulärer Ausdrücke	<i>Ermittelt Umrechnungsraten zu anderen Währungen</i>
Adressen Erkennt Adressen	<i>Anzeigen in Yahoo Maps</i>
Länder Erkennt Länder auf Basis regulärer Ausdrücke	<i>Holt Informationen von justmaps.org</i>
Musik Entitäten Erkennt Artisten, Bands, Album- und Songnamen	<i>Amazon Lookup inkl. Play Option</i>
Film Entitäten Erkennt Schauspieler, Director- und Filmnamen	<i>Amazon Lookup</i>
Bluepedia Entry Detector Erkennt Information Spots für die Bluepedia Einträge existieren	<i>Holt eine Zusammenfassung des Bluepedia Artikels</i>
Namen (Vor-, Nachname) Erkennt Namen (z.B. von IBM Mitarbeitern)	<i>Holt Mitarbeiterinformationen aus IBM Bluepages</i>

Enriched content browser

Powered by **IBM Enriched Content Technology**

Bluepedia Entry



IBM

International Business Machines Corporation



Legal form [Corporation](#)

Foundation 1896

Headquarter Armonk, NY, USA

CEO [Samuel J. Palmisano](#) (Chairman & CEO)

Employees 329.373 (2005)

Revenue 91,134 billion \$ (2005)

Industry [Information Technology](#)

Products

Website www.ibm.com

The International Business Machines Corporation (IBM) is one of the oldest IT companies in US with more than 300.000 employees worldwide. The headquarter is located in Armonk, NY. Meanwhile IBM is one of the largest IT enterprises worldwide making business with hardware, software and services. The blue logo of IBM created its alias *Big Blue* or *Mother Blue*.

for more information about **IBM** [click here](#)

W3 News

News home Published on 08 October 2007

Top stories [News home](#) > [Top stories](#) >

In the news

MyNews

Archive index

Help

SAE Contest winners



It's not business as usual for IBMers who entered the [Situational Applications Environment](#) Contest, sponsored by Maria Azua, VP Technology and Innovation. They took up the challenge to use Web 2.0 technologies and techniques in creating web applications, plug-ins or Notes composite applications that address everyday business problems.

[Jan Pieper](#) was one of the 178 participants. He recognized that as virtual teams span the world, keeping track of relationships and expertise is complicated. His solution, [TeamAnalytics](#), offers a simple and visual answer. With TeamAnalytics, just enter your team members Notes addresses and this solution will "slice and dice" through bluepages data like department number and work location to build a visual hierarchy of your logical team. The application also provides visualization of ["Timezone Pain"](#) for better scheduling of meetings with a far-flung team. His efforts brought Jan the \$15,000 first prize.

Choosing other winners wasn't easy because the judges were impressed by many entries. As a result, they awarded three prizes each in the 2nd and 3rd place categories.

[Santosh S Kumar](#), a great Innovator in the Software Group in India, won a 2nd place award with [Reporting Composite Application on Notes](#). It provides graphical reports from Notes, integrates Eclipse and Notes Storage Format and offers the ability to create reports over Domino Data Source. His efforts got him \$5,000 as second prize.

Any IBMer on the road will appreciate [TravelFusion](#), a 2nd place winner. Described by its creators as a "Swiss Army knife for road warriors," this mash-up integrates 10 data streams to provide such info as local weather, meal limits, and directions to lodging and IBM locations. It's the brainchild of [Brian Olore](#) and [Matt Starr](#), who will share a \$5,000 award.

[Google Gadgets on Composite Applications](#), another 2nd place winner, adds Google Gadgets to the palette of Lotus Notes 8's Composite Application. With this entry, it's easy to have a weather forecast, currency converter and Wikipedia search in the same window. A pair of IBMers from the Dublin Software Lab, [Brian O'Gorman](#) and [Katherine Sewell](#), share the credit - and the prize money.

[The Expertise Finder](#), a 3rd place winner, mashes together the [Fringe Contacts](#) service and the [Nova Locator](#) and [EmployeeMapper](#) services to find subject matter experts near a given location in US. It runs within the [Project Zero framework](#) and is written in Groovy, [Java](#) and Javascript. [Daniel L Turkenkopf](#) netted a \$2,500 prize for his work.

In England, [Jamie Caffrey](#), [Bharat Bedi](#), and [Stuart Crump](#) put their heads together for the [Universal Information Framework for Sametime 7.5.1](#). This is a live information dashboard which receives information from numerous different sources. Information is pushed out to the user dynamically as it changes. Users can then interact back with it to provide such real-time information as stock quotes, sports scores or monitoring remote locations. They share the award for their 3rd place.

A handful of employees in the Software Group in Germany [Sebastian Nelke](#), [Michael Baessler](#), [Andrea Elias](#), [Thomas Hampf](#) and [Thilo Goetz](#) - grew tired of searching for background information when reading Web pages. Their solution [Braindrops SmartTouch](#) is another 3rd place winner. It identifies potential topics of interest in a text, accesses available information sources about a topic and seamlessly enriches the text with the found information using Ajax technology.

For more information concerning this article, please contact [Bender, Philip J.](mailto:pibender@us.ibm.com) (pibender@us.ibm.com).

[Terms of use](#)

Often assembled by casual programmers, a Situational **Application** provides "just enough" functionality to address an immediate need.

More than 175 IBMers entered the contest from around the world

Contest Winners

 [Michael Baessler](#)
IBM Software Group, Information Management, Software Engineer, [Apache UIMA](#) development

 [Bharat Bedi](#)
IBM Software Group, [Strategy Master Inventor](#), [Emerging Technology Services](#), Software Developer

 [James Caffrey](#)
IBM Software Group, [Strategy Master Inventor](#), [Emerging Technology Services](#), Software Developer

 [Stuart Crump](#)
MBCS CIP, Senior Accredited [IBM IT Specialist](#), Financial Services Sector

 [Andrea Elias](#)
IBM Software Group, Information Management, Software [Development](#)

 [Thomas Hampf-Bahnmueller](#)
IBM Software Group, Information Management [UIMA Architecture](#) board member, Globalization Architectural Technical Team (GATT) member

 [Santosh S. Kumar](#)
IBM Software Group, Information Management, Principal Software Engineer, Software Developer

 [Sebastian Nelke](#)
IBM Software Group, Information Management, Software Developer, Information Platform and Solutions [Development](#)

 [Brian P. Olore](#)
IBM [CHQ](#), Enterprise [On Demand](#), [IT Architect](#), [TWE CoE](#) - Workplace [Architecture & Strategy](#), [Application Architect](#): Custom [Development](#)

 [Brian O'Gorman](#)
IBM Software Group, WPLC, Dev lead, Notes 8.0 Composite [Application Editor](#)

 [Jan Pieper](#)
IBM Research, Chief Architect [Semantic Super Computing](#), Research Scientist : Computer Science

 [Katherine Sewell](#)
IBM Software Group, WPLC, Software Engineer, Software Developer

Enriched content browser

Powered by **IBM Enriched Content Technology**

IBM Employee



IBM Employee

Name Baessler, Michael
 Job Role Software Engineer, Apache UIMA development
 Phone 49-7031-16-2592
 Email MBAESSLER@de.ibm.com

[more...](#)

w3 News

News home | Top stories | In the news | MyNews | Archive index | Help

Published on 08 October 2007

[News home](#) > [Top stories](#) >

SAE Contest winners



It's not business as usual for IBMers who entered the [Situational Applications Environment](#) Contest, sponsored by Maria Azua, VP Technology and Innovation. They took up the challenge to use Web 2.0 technologies and techniques in creating web applications, plug-ins or Notes composite applications that address everyday business problems.

[Jan Pieper](#) was one of the 178 participants. He recognized that as virtual teams span the world, keeping track of relationships and expertise is complicated. His solution, [TeamAnalytics](#), offers a simple and visual answer. With TeamAnalytics, just enter your team members' Notes addresses and this solution will "slice and dice" through bluepages data like department number and work location to build a visual hierarchy of your logical team. The application also provides visualization of ["Timezone Pain"](#) for better scheduling of meetings with a far-flung team. His efforts brought Jan the \$15,000 first prize.

Choosing other winners wasn't easy because the judges were impressed by many entries. As a result, they awarded three prizes each in the 2nd and 3rd place categories.

[Santosh S Kumar](#), a great Innovator in the Software Group in India, won a 2nd place award with [Reporting Composite Application on Notes](#). It provides graphical reports from Notes, integrates Eclipse and Notes Storage Format and offers the ability to create reports over Domino Data Source. His efforts got him \$5,000 as second prize.

Any IBMer on the road will appreciate [TravelFusion](#), a 2nd place winner. Described by its creators as a "Swiss Army knife for road warriors," this mash-up integrates 10 data streams to provide such info as local weather, meal limits, and directions to lodging and IBM locations. It's the brainchild of [Brian Olore](#) and [Matt Starr](#), who will share a \$5,000 award.

[Google Gadgets on Composite Applications](#), another 2nd place winner, adds Google Gadgets to the palette of Lotus Notes 8's Composite Application. With this entry, it's easy to have a weather forecast, currency converter and Wikipedia search in the same window. A pair of IBMers from the Dublin Software Lab, [Brian O'Gorman](#) and [Katherine Sewell](#), share the credit - and the prize money.

[The Expertise Finder](#), a 3rd place winner, mashes together the [Fringe Contacts](#) service and the [Nova Locator](#) and [EmployeeMapper](#) services to find subject matter experts near a given location in US. It runs within the [Project Zero framework](#) and is written in groovy, [Java](#) and Javascript. [Daniel L Turkenkopf](#) netted a \$2,500 prize for his work.

In England, [Jamie Caffrey](#), [Bharat Bedi](#), and [Stuart Crump](#) put their heads together for the [Universal Information Framework for Samesite 7.5.1](#). This is a live information dashboard which receives information from numerous different sources. Information is pushed out to the user dynamically as it changes. Users can then interact back with it to provide such real-time information as stock quotes, sports scores or monitoring remote locations. They share the award for their 3rd place.

A handful of employees in the Software Group in Germany [Sebastian Nelke](#), [Michael Baessler](#), [Andrea Elias](#), [Thomas Hampp](#) and [Thilo Goetz](#) - grew tired of searching for background information when reading Web pages. Their solution [Braindrops SmartTouch](#) is another 3rd place winner. It identifies potential topics of interest in a text, accesses available information sources about a topic and seamlessly enriches the text with the found information using Ajax technology.

For more information concerning this article, please contact [Bender, Philip J.](mailto:pjbender@us.ibm.com) (pjbender@us.ibm.com).

[Terms of use](#)

Search w3


IBM

w3 Home | [BluePages](#) | [HelpNow](#) | [Feedback](#)


Often assembled by casual programmers, a Situational Application provides "just enough" functionality to address an immediate need.

More than 175 IBMers entered the contest from around the world

Contest Winners

 [Michael Baessler](#)
IBM Software Group, Information Management, Software Engineer, Apache UIMA development

 [Bharat Bedi](#)
IBM Software Group, Strategy Master Inventor, Emerging Technology Services, Software Developer

 [James Caffrey](#)
IBM Software Group, Strategy Master Inventor, Emerging Technology Services, Software Developer

 [Stuart Crump](#)
MBCS CTP, Senior Accredited IBM IT Specialist, Financial Services Sector


 [Andrea Elias](#)
IBM Software Group, Information Management, Software Development

 [Thomas Hampp-Bahnmueller](#)
IBM Software Group, Information Management UIMA Architecture board member, Globalization Architectural Technical Team (GATT) member

 [Santosh S. Kumar](#)
IBM Software Group, Information Management, Principal Software Engineer, Software Developer

 [Sebastian Nelke](#)
IBM Software Group, Information Management, Software Developer, Information Platform and Solutions Development

 [Brian P. Olore](#)
IBM CHQ, Enterprise On Demand, IT Architect, TWE CoE - Workplace Architecture & Strategy, Application Architect: Custom Development

 [Brian O'Gorman](#)
IBM Software Group, WPLC, Dev lead, Notes 8.0 Composite Application Editor

 [Jan Pieper](#)
IBM Research, Chief Architect Semantic Super Computing, Research Scientist : Computer Science

 [Katherine Sewell](#)
IBM Software Group, WPLC, Software Engineer, Software Developer

Agenda

Motivation

Architektur

Technologie-Bausteine

Unstructured Information Management Architecture



UIMA Anwendungen *analysieren unstrukturierte Informationen* mit dem Ziel “Wissen” zu entdecken, welches für den Nutzer relevant ist

Zum Beispiel kann Text analysiert werden um *Entitäten* wie *Personen*, *Orte* oder *Unternehmen* sowie *Beziehungen* wie “*arbeitet für*” oder “*befindet sich in*” zwischen Entitäten zu erkennen und zu lokalisieren

UIMA ist ein *Framework* und *SDK* um solche Anwendungen zu entwickeln (definiert Interfaces, self-describing Metadata etc.)

UIMA Anwendungen gliedern sich in *Komponenten* (C++ oder Java) wie “*language identification*”, “*sentence boundary detection*” oder “*entity detection*” (für Personen, Orte, Namen etc.)

Das Framework verwaltet diese Komponenten und *realisiert* den *Datenfluss* zwischen ihnen.

UIMA Spezifikation ist momentan im OASIS Standardisierungsprozess

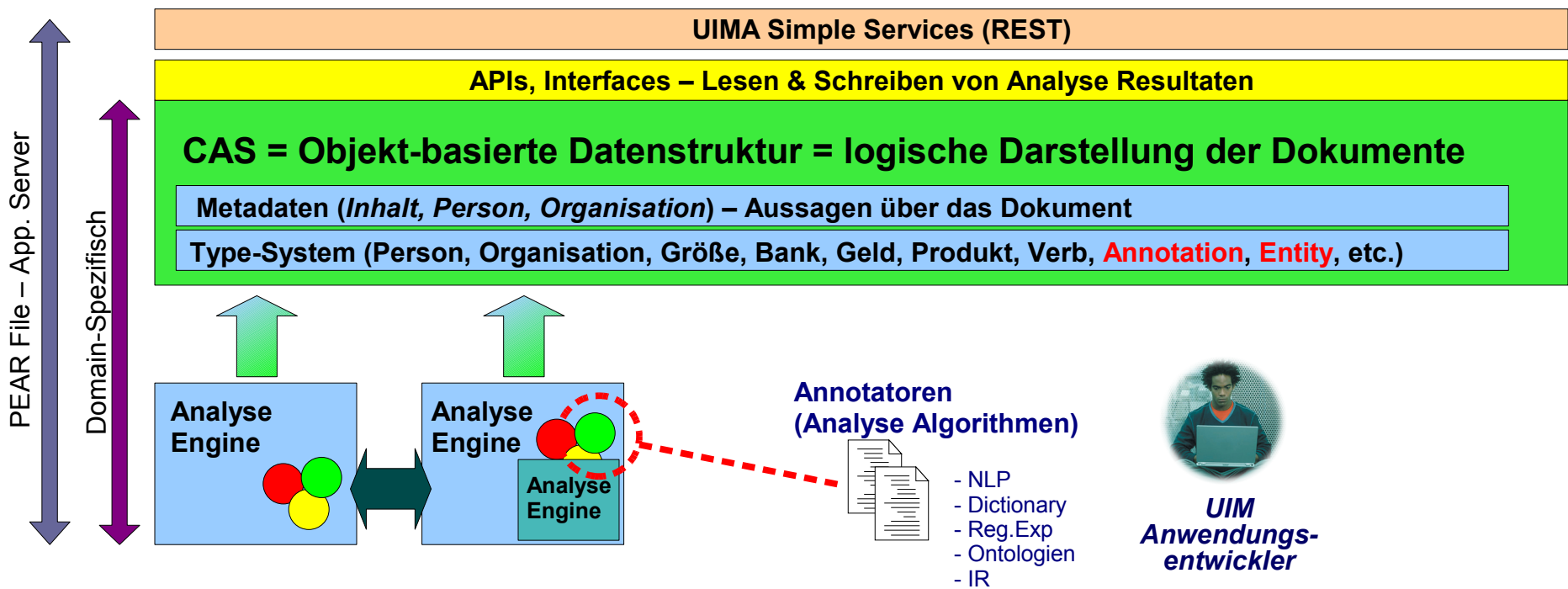


Unstructured Information Management Architecture

An Apache Incubator Project

UIMA Grundlagen – Umsetzen eines InfoSpotters

UIMA's Basis-Bausteine sind "Annotatoren", die wiederum Teil von "AnalyseEngines (AE)" sind. AEs iterieren über Dokumente, erkennen neue Typen und Zusammenhänge, und schreiben diese in Form von Metadaten in die **Common Analysis Structure (CAS)** zwecks Upstream Processing.



Schreiben eines Google OneBox Lookup Services für DB2

The screenshot shows the IBM Data Studio interface. A 'New Web Service' dialog box is open, titled 'Define a new Web service'. It prompts the user to 'Specify a name, type, and target Web server for the new Web service.' The dialog has fields for 'Project:', 'Name:', and 'Namespace UR'. Below the dialog, the 'Data Project Explorer' shows a project structure with folders for 'SQL Scripts', 'Stored Procedures', 'User-Defined Functions', 'Web Services', and 'XML'. The 'SimpleSelect.sql' file is selected under 'SQL Scripts'. A blue arrow labeled 'Drag & Drop' points from the 'SimpleSelect.sql' file to the 'WebService1*' folder in the 'Web Services' section. In the background, a script editor shows the SQL query: `SELECT * FROM P`. A text box on the right contains the text 'ript zum Auslesen von Daten'. Another text box at the bottom right says 'Automatische Generierung der Webservice Operation'.

Schreiben eines Google OneBox Lookup Services für DB2

Deploy Web Service

Specify the options to use during the deployment of the Web service.

Web server
 Type: WebSphere Application Server Community Edition v1.1
 Server:
 Build deployable files only, do not deploy to a Web server

Data handler
 Data handler: JDBC
 Register database connection with Web server

Message protocols
 REST (Web access) SOAP over HTTP SOAP over JMS

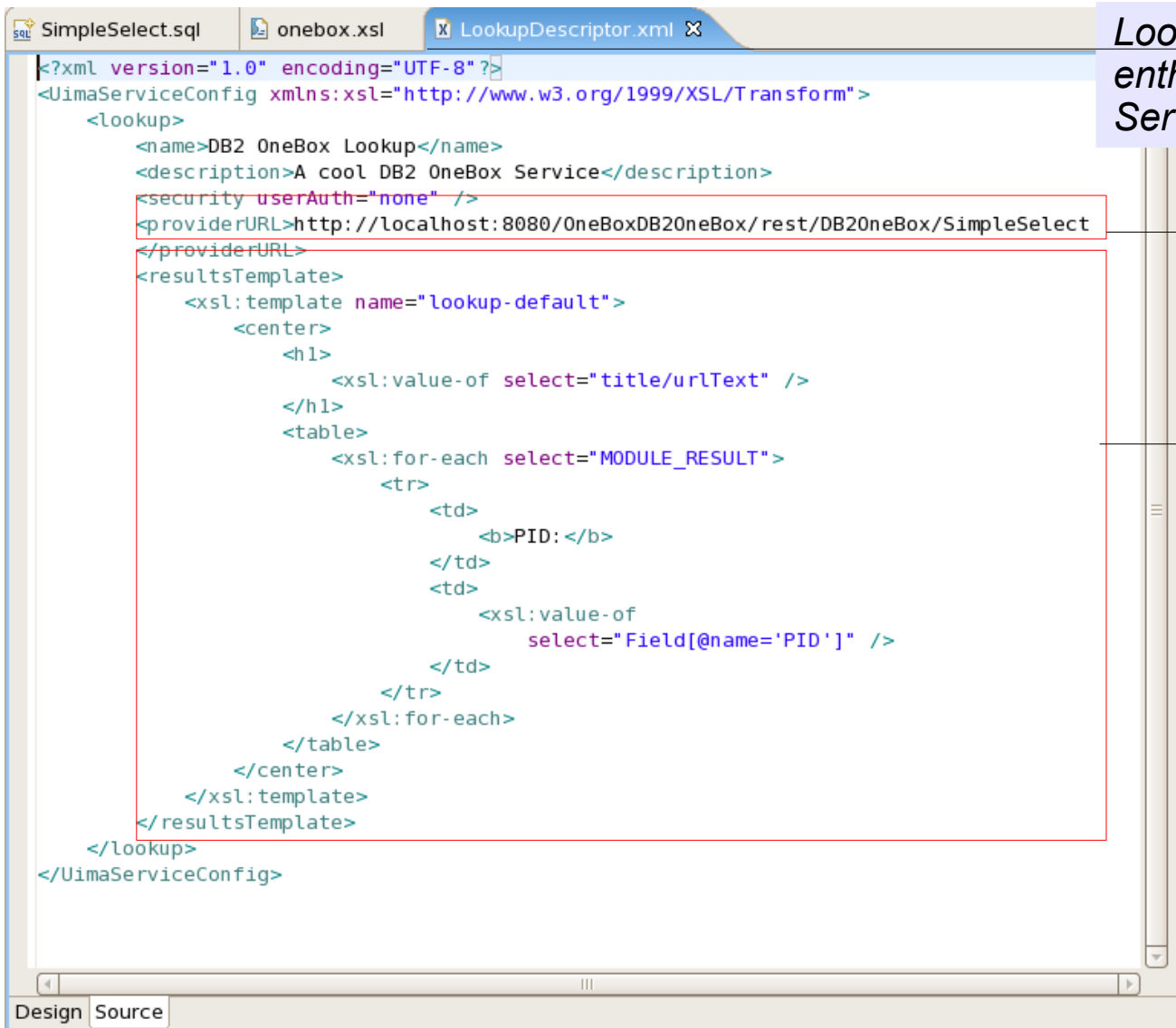
Parameters

Name	Value
artifact.contextRoot	XinnovationWebService1
artifact.dataSourceArtifactId	SAMPLE

Test
 Include Data Web Services test client
 Launch test client after deployment
 Launch Web Services Explorer after deployment
 Set as default project Web service properties

Deployen des DB2 WebService

Schreiben eines Google OneBox Lookup Services für DB2



```

SimpleSelect.sql  onebox.xsl  LookupDescriptor.xml
<?xml version="1.0" encoding="UTF-8" ?>
<UimaServiceConfig xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <lookup>
    <name>DB2 OneBox Lookup</name>
    <description>A cool DB2 OneBox Service</description>
    <security userAuth="none" />
    <providerURL>http://localhost:8080/OneBoxDB2OneBox/rest/DB2OneBox/SimpleSelect
  </providerURL>
  <resultsTemplate>
    <xsl:template name="lookup-default">
      <center>
        <h1>
          <xsl:value-of select="title/urlText" />
        </h1>
        <table>
          <xsl:for-each select="MODULE_RESULT">
            <tr>
              <td>
                <b>PID: </b>
              </td>
              <td>
                <xsl:value-of
                  select="Field[@name='PID']" />
              </td>
            </tr>
          </xsl:for-each>
        </table>
      </center>
    </xsl:template>
  </resultsTemplate>
</lookup>
</UimaServiceConfig>

```

*Lookup Service Descriptor File
enthält Metainformationen des
Service*

Service Provider URL

Die Google OneBox
Lookup Response wird
via XSL in XHTML
transformiert

Darstellung der Lookup Ergebnisse im Browser

The screenshot shows a Mozilla Firefox browser window with the title "heise online - 20.09.08 - Sarah Palin: Der Mail-Hack, der keiner war - Mozilla Firefox: IBM Edition". The address bar shows the URL "http://www.heise.de/newsticker/Sarah-Palin-Der-Mail-Hack-der-keiner-war-/mel". The page content includes a navigation menu with "Home", "Newsticker", "7-Tage-News", "News-Archiv", and "Leserforum". Below the navigation menu, there is a breadcrumb trail: "heise online > News > 2008 > KW 38 > Sarah Palin: Der Mail-Hack, der keiner war". The main content area displays the date "20.09.2008 10:37" and the article title "Sarah Palin: Der Mail-Hack, der keiner war" with a "vorlesen" button. The article text begins with "Am Dienstag übernahmen unbekannte Hacker den privaten E-Mail-Account der Gouverneurin von Alaska, Sarah Palin. Palin ist die designierte Vizekandidatin des US-Präsidentschaftskandidaten John McCain. Zwei Tage später veröffentlichte ein Teilnehmer mit dem Online-Namen "rubico" die Geschichte des Hacks im Web-Forum 4chan. Dort diskutieren die meisten Teilnehmer ohne Benutzernamen als "Anonymous". Grundsätzlich ist auf 4chan bei Bekennerschreiben jeglicher Art eine gehörige Portion Skepsis angesagt; die Beschreibung von Rubico wirkt allerdings glaubwürdig und blieb bislang unwidersprochen."

On the left side of the browser window, there is an "Enriched Content Browser" sidebar. It features the IBM logo and the text "Powered by IBM Enriched Content Technology". Below this, there is a "Wikipedia Entry" section. This section is highlighted with a red border and contains a Wikipedia globe icon, the text "WIKIPEDIA The Free Encyclopedia", and a short biography of John Sidney McCain III: "John Sidney McCain III (born August 29, 1936) is the senior United States Senator from Arizona and presidential nominee of the Republican Party in the 2008 presidential election."

Resourcen

Apache UIMA

<http://incubator.apache.org/uima/index.html>

UIMA kompatible semantische Suchmaschine:

<http://www.alphaworks.ibm.com/tech/uima>

UIMA @ IBM

www.research.ibm.com/UIMA/

DB2 WebServices

<http://www.ibm.com/developerworks/edu/dm-dw-dm-0711pauser-i.html>