

Experiment Two

Participant id:

Tiffany Mikel

Participant first, last name:

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Please direct your browser to http://www.xemplar.org/search/index_adv.jsp

In the end of this experiment, please write your comments below this line

Most, if not all, results returned were provided valuable direction / foundation for completing the required tasks. Although a greater number of relevant applications are listed, the order of relevance was often

incorrectly ranked. I still however prefer this search engine as it was much more comprehensive than the other.

For example, searching by Sourceforge gives me a '4' at the top of list and then 7 or 8 '2's' '1'. Exemplar returns more 4s & 3 but they are incorrectly ranked.

Task

Create an application that loads and parses HTML documents and creates a DOM tree. The application should traverse the tree, retrieving the values of the HTML attributes and elements en route. In addition, the application should enable users to create and modify HTML documents by changing the DOM tree directly.

Results

Please specify what keywords you used in your query:

load parse html DOM

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3 (mostly relevant), 2 (most irrelevant), 1 (completely irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Yuan web HTML Presentation technology	4	This application contains code for all of the desired functionality.
2	JCE Protocol Reference Java Code	4	Although no keywords were matched, this application utilizes many many if not all of the necessary APIs to complete task.
3	BayKit TagPrint	3 (2½)	No source code is available however basic foundation for loading HTML files and creating DOM tree exist.
4	Neko HTML	4	Utilities provided to scan load & parse HTML documents and then manipulate within DOM tree. Right on!

5	Java HTML Parser	1 2	Although no DOM tree functionality exists, the description provides a good starting place. However much of the needed APIs are not present
6	jolenre	4	All of the needed code to complete task appears to be available.
7	Domlet4j	4	No source code provided Description matches task well.
8	Shani Xml Parser	4	provides all code needed to complete required task
9	Webstencil	2	Even Although an API is provided for loading HTML docs, ^{significant} additional coding will need to be done.
10	IBDom	3 2	No source code provided. Description seems to provide some of desired functionality - but not all.

Task

Find an application that uses JavaBeans which uses the bound indexed property to determine property change in this application bean. The application should display some text in its GUI.

Results

Please specify what keywords you used in your query:

determine property change application JavaBean

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3 (mostly relevant), 2 (most irrelevant), 1 (compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Bean maker	3 1/2	Both task requirements, text displayed in GUI & determination of prop change via bounded index are found ^{source code}
2	DB Schema Change	2	No + specific to java beans, however change reporting is handled well
3	Nave/Java Bean Intro....	4	All APIs required to complete task can be found here, especially a property descriptor based on indexed values.
4	Application Property Server	2	No source code available. Description is somewhat vague & I'm not sure if any of the apps functionality meets my needs. displayed text.
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5.	change manager	2	No source code provided. Vague Description
6	data beans	4	Property change listener present; property descriptor based on index; Surprised to see this further down on list.
7	prop con	1	No source code. very vague descriptions
8	property file manager	2	No source code. Description seems relevant.
9	Lune	2	No source code Not apparent if changes or just initial/current values of application beans are reported.
10	Idate Chaser	1	Not relevant

Task

Implement an application that performs pattern matching operations on a character sequences in the input text files. The application should support iterating through the found sequences that match the pattern. In addition, the application should support replacing every subsequence of the input sequence that matches the pattern with the given replacement string.

Results

Please specify what keywords you used in your query:

matching patterns in text files string replacement

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Batch Text Replacer Wizard	3½	No source code available however description matches task.
2	TextFile Manipulation	3	decompiler needed to view java files
3	EreP GUI	2	Allows search but no replace of selected strings
4	FUSTRIC	3	No source code available description appears to match

5	Doc Search	2	Appears to have several search utilities however NO string manipulation ability
6	Waba for DOS	4	Most relevant thus far. API is available provide both search & manipulation functionality.
7	Lukan	1 1/2	matching functionality - nothing else
8	Java Extensible Text replacement	3	
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Task

Implement a library for handling security permissions in a database. The library should support creation of permissions, retrieval and checking permissions by clients, setting system-wide security permissions, retrieval of security permissions with the specified key, adding and removing providers and clients for various permissions.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Implement a library similar to a synthesizer that supports generating sounds. These synthesizers should support different transmitters (i.e., sends midi events) and receivers (i.e., receives midi events and interprets them).

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Implement a library for managing concurrent access to hash maps (i.e., the hash maps data structures should be simultaneously accessible by multiple client threads). The concurrent hash table map or table should support regular operations such as clear, contains, put, remove, replace, size, etc.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Load and execute Java threads from a folder containing classes. Load each class and execute it in its own thread. Keep information about the number of threads and how long to completion. Keep a pool of available threads to accommodate user inputted class names.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Java Virtual Machine (JVM) monitoring tool that allows users to view options in the virtual machine and to dynamically change options in the JVM.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Experiment Three

Participant id:

Tiffany Mikell

Participant first, last name:

Tiffany Mikell

Block: **Green**

Please direct your browser to http://www.xemplar.org/search/index_new.jsp

In the end of this experiment, please write your comments below this line

During this experiment it became clear that searching by API can be much more effective than by keywords in many instances. This is because it is the APIs that determine functionality and scope potential.

Task

Find applications that use glyph painting facilities to enable users to deal with a range of viewing options. The goal is to reuse found applications to create visual presentation of texts and fonts, some of which are foreign.

Results

Please specify what keywords you used in your query:

glyph painting text font

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Waba for Dos	4	the use of the java.awt.Font class makes this an excellent foundation for development
2	Double Type	4 +	all of the above plus added reusability
3	Option Font Viewer	3	Use of the javax.swing provides desired viewing options.
4	Font Sender	2½~	Allows also viewing of foreign objects by receiver from sender

5	Mc Billiards	4	This project also uses the java.awt.Font API (With an added imported GlyphMetrics class - which will return metrics for reusability)
6	Draw SWF	4	Same as above.
7	retypar	4	I also give this a four because it provides yet another option for font flexibility & reuse
8	Keith goes painting	1	No source code irrelevant description
9	JPKI	4	For Flexibility, choice & reuse
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Task

Create a lightweight virtual machine that supports data transfers using clipboard. Data transfer feature of this machine can be implemented with the help of sun GUI support.

Results

Please specify what keywords you used in your query:

Clipboarded data transfers VM GUI support

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Oddjob	3 1/2	Javax: swing, Transfer Handler can be run from a virtual server
2	Clipboard Share	3 1/2	allows remote & local machines to access clipboard - threading capabilities are useful also
3	Advanced Clipboard Manager		
4	JGloss	2 1/2	Although this project is unrelated, it uses API that are transferrable to the required task.

5	Runnagel Slide	2 1/2	useful APIs
6	C# Java VM	2	provides VM functionality that can be used with clipboard APIs
7	Waba for DOS	2 1/2	useful APIs
8	Heritrix Internet web Archive crawler	2	Sun: management; Connector AddressLink can be useful
9	the java VM	2	Unable to view source code, however, provide SVM functionality
10	Internet Virtual Machine	2	provide VM upon which Data Transfer development can be done

Task

Parse a Java source file and output the abstract syntax tree (AST). Allow the user to traverse and modify the AST with a graphical interface.

Results

Please specify what keywords you used in your query:

parse java source file modify AST output

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3 (mostly relevant), 2 (most irrelevant), 1 (compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Tree Editor for Java	3	No source code. Description is relevant
2	Jsel	4	Lexer Shared Input State; Input Buffer; Token Stream allow java file parsing — Common AST creates view
3	AST-Tutorial	1	NO source code
4	BNF for Java	4	customizable output make it ideal

5	Java File Parser	2	no source code Can parse text files → but no description of graphical or other output
6	Java Programmer	1	parse functionality vague description no source code
7	Protocol & File Specification format	3	provides required functionality
8	Java (xml) Log Analyser	2½	provides similar functions
9	Lexical Analyzer & Parser generator	2	Does not related but not as close as possible
10	Ripsaw	2	Useful APIs – however not entirely providing functionality of task

Task

Create a GUI application that shows data in dynamically modifiable tables that have scrollbars. These scrollbars can change their orientations in tables based on the number of rows and columns.

Results

Please specify what keywords you used in your query:

modify tables scrollbars gui

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Subtitle Editor	4	
2	myDb manager	3	provides some use full functionality
3	ISKRA/		
4	JDBC Manager		

5	Jasmine IDE	1	uses the ::debug::gui API - but not a full related
6	Build File Designer	1	not relevant → build task related
7	Obj/Srcs GUI		
8	crutable	2 1/2	
9	Db2Xml/ structure generator w/ XSL	3 1/2	closest to the task requirements
10	youAdmin		

Task

Implement a library for checking XPath expressions. The checker should support compiling XPath expressions, evaluating XPath expressions in the context of the specified XML document and returning the results as the specified type.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Eclipse XPath plugin	4	Exactly what is needed
2	Simple XPath parser API		
3	XML Documents from XPath and its data		
4	Micro Xquery Engine		

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Task

*Transfer
handler
API
should be
used*

Implement a simple drag and drop manager. The manager should specify when and how a drag gesture may occur and implement a set of handlers that shall be invoked in order to cause processing of the user's navigational gestures. The manager should also define and implement drag and drop protocol notifications. The drag and drop manager shall permit only one drag and drop operation at a time and shall reject any further drag and drop requests until the extant operation is complete.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Create a power status monitor that retrieves and reports external vs internal power status data, sits in system tray and change color based on status, and offer options to automatically start on system boot.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

*Sounds like a
McBride task*

Implement a library that allows representing and manipulating glyphs as a standalone entities as well as vectors of glyphs (note: a glyph is the visual representation of one or more characters). The library should also provide basic functionality for obtaining basic metrics on glyphs, for instance, the distance from the glyph's origin to the origin of the next glyph along the baseline, which can be either vertical or horizontal. The library shall not include any functionality on interpreting the sequences of glyphs it contains. The relationships between adjacent glyphs in a sequence should be solely used to determine the placement of the glyphs in the visual coordinate space.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Experiment One

Participant id:

Tiffany.mikell [10356839]

Participant first, last name:

Tiffany Mikell,

Block: Green

Please direct your browser to <http://sourceforge.net/>

Login name: xemplar

Password: exemplar2009

In the end of this experiment, please write your comments below this line

I did not complete many tasks as sourceforge was not as easy to find relevant software as hoped for. Also some of the more relevant applications were listed toward the bottom. Being based primarily on keywords rather than API hurt ~~some~~ the overall quality/relevance of results returned. Overall it took ~~longer~~ a relatively long time to find relevant matches.

Task

Create an application for sharing, viewing, and exploring large data sets that are encoded using MIME. The data sets may represent blogs or genome sequences. The data can be stored using key value pairs. The application should support retrieving data items by mapping keys to values.

Results

Please specify what keywords you used in your query:

Share MIME data sets key value mapping

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3 (mostly relevant), 2 (most irrelevant), 1 (completely irrelevant)	Your explanation of your ranking (a couple of sentences)
1	FastDHT	4	The source code contained code/api for controlling sort order of the data, loading & reading the files, setting & retrieving values for keys as well as IO output stream. <i>supports multi-thread well</i>
2	Extended Root Tree	2 1/2	Seems to be a good foundation for managing the data ^{key mapping} , however very little code for actually sharing, exploring or decoding. <i>For MIME encoding.</i>
3	Cluster NFS	1 1/2	No Source Code Available. However seems to be a decent foundation for assigning values to keys.
4	Tranche Distributed Repository	1 1/2	No Source Code Available. Seems to provide framework for sharing of large data sets.

5	CV tool	1	No source code. Description is irrelevant to task.
6	Hel. DB	3	Supports concurrent threads well. Does not ^{Supports IO} not relevant to the ^{well} relevant to transactional data though ^{should have been} higher on the list
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Task

Implement a library to support an affine transformation between vector spaces (i.e., affine vector spaces) using linear transformations (rotation, scaling or shear) and translations (shift).

Results

Please specify what keywords you used in your query:

transform vector spaces

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
1	Vector Converter		
2	pingo		
3	Abstract Algebra		
4	V-Engine		

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Task

Develop a universal sound and voice system that allows users to talk, record audio, and play MIDI records. Users should be able to open source connections with each other and communicate. A GUI should enable users to save conversations and replay sounds.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Implement a library for representing and manipulating with BigDecimal numbers. A BigDecimal consists of an arbitrary precision integer unscaled value and a 32-bit integer scale. If zero or positive, the scale is the number of digits to the right of the decimal point. If negative, the unscaled value of the number is multiplied by ten to the power of the negation of the scale. The value of the number represented by the BigDecimal is therefore $(\text{unscaledValue} \times 10^{-\text{scale}})$.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Create an application for creating, opening, and manipulating *.zip files. The application should support opening *.zip files for reading, deleting after opening as well as adding new entries into existing *.zip files.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Create a framework that provides transactional support for CORBA-based applications. The framework should handle security and authentication, resource pooling, and database connectivity.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Implement a library for managing tooltips (A tooltip is a common graphical user interface element. It is used in conjunction with a cursor, usually a mouse pointer. The user hovers the cursor over an item, without clicking it, and a small "hover box" appears with supplementary information regarding the item being hovered over.). The Tool Tip Manager library should support operations for configuring how long it will take for the tool tips to become visible and for how long they hide.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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Task

Create an application feature that uses Secure Sockets Layer (SSL) with X509 certificates for authentication. It should signal when no more inbound network data will be sent to this application.

Results

Please specify what keywords you used in your query:

Project number	Project title	Your relevancy ranking, one of: 4 (highly relevant), 3(mostly relevant), 2(most irrelevant), 1(compl irrelevant)	Your explanation of your ranking (a couple of sentences)
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