

Experiment Three

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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 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	Double Type	4	Bundle font files using an editor allowing combination of existing glyphs & modules
2	Opcon Font Viewer	3	Allowed to apply font styles & view many fonts at once
3	retypar	1	Conversion tool for images into text
4	FontViewer	3	Font loader/visualizer fnality

5	Font Sender	1	Description suggests font type is sent to enable viewing, not a presentation viewer
6	Mobile Bitmap Fonts	3	Allows manipulation & presentation of text using a font style
7	RimgGen	2 1	Only executable file, no source
8	Image Server	1	JPEG image tool
9	Senex Console ++	3	Includes font style rendering capabilities
10	JPKI Font Chooser	3	Font, font-style, size, color viewability

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:

SUN GUI virtual machine clipboard

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	<i>Bistro</i>	<i>1</i>	<i>Describes a programming language</i>
2	<i>Jawn Research Runtime Environment</i>	<i>2</i>	<i>Not enough file specification for VM</i>
3	<i>Advanced Clipboard Manager</i>	<i>3</i>	<i>Specific to clipboard functionality & not is an app w/ no SUN GUI</i>
4	<i>JQemuGUI</i>	<i>1</i>	<i>No files included</i>

5	J Calc	3	Calc. app that integrates w/ JVM Finality
6	Clipboard Share	4	Data transfers using clipboard & capability to share across machines
7	Jato	1	No files are included
8	Clipboard-GUI	2	GUI built using Eclipse not SWN
9	Java VM Probe	2	Real-time Redback using w/in Java JVM, but no clipboard bin
10	Another Open Java Card VM	1	No files included

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:

modify ast 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	AST Reproduce	3	Creates AST based on input code
2	ast parser	3	Command line interface ^{interface} capability for building AST
3	AST - tutorial	1	No files included
4	Tree Editor for Java	1	Allows view/modify Java src as a tree. No files included

5	Grammar Browser	2	GUI is provided but fn is for grammar
6	You Admin	21	Not related to converting Java source to AST
7	Build File Designer	4	Allows for manipulation of build file & GUI
8	LALR Parser Generator	3	No GUI but contains automatic AST generation
9	ASTcentric	3	Text source to AST generation & ability to edit AST
10	Wax-eye Parser Generator	4	Parses Java & supports automatic AST generation. Contains GUI & handles AST edits

Experiment Two

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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

The word match % did not help as much as the API %

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:

create DOM tree traverse HTML attributes

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	Jivcan Web HTML Presentation Technology	4	Populates HTML elements & allows content to be written directly based on template
2	ICE Protocol Reference Java Code	4	No content for HTML docs translated to DOM tree or elements/attributes
3	HTML Encoder	3	Able to generate HTML output using dom4j(?)
4	computation tree	1	Only description, no files exist

5	Disk DOM	3	Dom trees created w/o RAM usage Don not specify documents used/converted
6	XML/XSLT Web Traverse	2	Contain transformation code snippet but not into a Dom tree
7	Ozone Java Ozone - Java OODBMS	4	Multiple APIs traverse HTML docs & populate element types
8	BeanLDOM	4	LDomTest.java file contains node/child content w/ no data element mapping
9	Streaming XML -DOM event processing	2	Parses XML for DOM trees for using a specific procedure (SAX)
10	Baykit TagPrint	3	Snippets can be utilized for DOM docs in various formats, XML included

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:

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 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:

~~pattern~~ pattern matching character sequences 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	Malasco	3	Code snippets include string matching for characters
2	Je Hep	3 4	Spell checker that contains functions for find/replace
3	Java Secure Copy	4	Provides secure connections
4	BANNER Named Entity Recognition System	2	Application only allows for searching using a primary recognition engine

5	NORS	4	Wireless sensing, but not text/char recognition
6	Maza	4	Calculator-like operations w/ no replacement fns
7	MobileCatan2	4	Mobile app that does not specify char search/replace
8	EuroMath2	4	Does not provide fn for char search/replace
9	Sentessa	4	Indexing & searching text. Provides quote char API
10	Vyger Online RPG	1	Game, not search tool

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:

Synthesizer transmitter receiver

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	<i>Tritonus</i>	<i>4</i>	<i>Source file includes synthesizer, decoders, & output channel content</i> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> \uparrow <i>(receiver)</i> </div> <div style="text-align: center;"> \uparrow <i>(transmitter)</i> </div> </div>
2	<i>Transmitter Locator</i>	<i>4</i>	<i>The Source file included mathematical calculations / formulas for transmitter signal</i>
3	<i>Rasmus DSP</i>	<i>4</i>	<i>Synthesizer w/ filters & generators</i> <i>Also contains interpreters to identify processing for instruments</i>
4	<i>Java Sound Resources</i>	<i>4</i>	<i>API resource base that includes device info, synthesizer, polyphony, & MIDI</i>

5	DGuitar	3	Same functionality as a synthesizer but focused on guitar
6	Tux Guitar	2	
7	MidiQuickFix	2	
8	JDx7	3	
9	Chord 4.0	2	
10	Xenodage Player	2	

Experiment One

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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

Query functions/operators may allow for more targeted results

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:

Key value pair MIME

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	Token Pair TFIDF	1	Only description. No project files. "Pair" is found but refers to tokens.
2	Report-Designer for JasperReports	3	Source file does not indicate data retrieval process.
3	J2EE for all	4	Source files indicate data is stored by mapping keys to values (DataStore.java) UI, grids, models are provided for data
4	XBus	3	Transformation of data using key pairs

5	Jnix Project	2	Data string is not described in source files
6	OAC Business Process Management	1	No source code
7	nexOpen	1	No source code
8	Dataisland Framework	3	Source code describes view, explore, stream of content
9	Extended Root Tree	4	Databases based on key/value pairs using distributed b-trees
10	Standard Content Archive Management	2	Transformation included but different method

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:

~~affine~~ affine vector spaces linear transformation

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	Java CardioPulmonary Simulations	4	Although focused on human physiology, multiple source files existed on affine transformation (PTransform Activity) (stepping, state, etc)
2	GeoServer	3	Multiple API for affine transform in X/Y coordinates & translations
3	Open SVG Viewer	4	APIs exist for affine transformations, translations, scale.
4	jMapEditor	1	No source files

5	Global Circle: Lesson Builder	3	Builds lessons but contains API for transformations, scaling
6	TTFEdit	3	Used geometry based APIs
7	ContextFabric	34	^{multiple} Used geometry based APIs
8	ToscanaJ	3	Finds x/y coordinates & performs transformations
9	Vyger Online RPG	3	Performs translations & transformations on X/Y coordinates
10	Procedurally Generated Spaces	1	No files

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:

record audio MIDI communicate replay

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	Rasmus DSP	2	<i>Mostly just audio recorder. No integrated communication</i>
2	Digital Replay System	3	<i>Ability to analyze audio, replay, log files</i>
3	WebReplay	2	<i>Focused on synchronization of audio not communication</i>
4	Music & Audio Retrieval Tools	2	<i>Music/audio searching. Does support MIDI</i>

5	Audio Development System	2	Audio/MIDI recording/playback
6	Knut Computer Recorder	2	Audio recording capability
7	PROTUX Digital Music Workstation	2	Audio/MIDI production
8	RPitch	1	Not related to audio recording
9	JUseCase	4	User Interactions is of recording functions is capable GUI defined
10	BulkDumper	2	Audio transfer only

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:

Create open manipulate new ~~zip~~ entry zip

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	Java Applet Web Server	1	No source files
2	Personal Java Zip Utility	1	No source file
3	JFileContent Manager	4	Source files indicate view, edit, add, & manipulate files in zip
4	Zip Snap	3	only new/modifed files are added to zip for backups

5	Entity FS	2	Creation & manipulation of zip files are not mentioned in source
6	BigZip	3 3	Compression schemes & manipulation only
7	jzip.org	4	Add, delete, extract, new functions are in source files
8	Jscalebrick	1	No source files
9	OpenJGraph	1	Not related to zip files
10	Java FileTools	2	Search function for file query in Zip