

# Experiment Three

---

Participant id:

Participant first, last name:

VITAY MANDADI

Block: **Yellow**

Please direct your browser to [http://www.xemplar.org/search/index\\_adv.jsp](http://www.xemplar.org/search/index_adv.jsp)

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



# 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 and visual presentation of texts and fonts.*

| 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>Waka for Dos</i>                     | <i>2</i>  | <i>A few support font applications</i>  |
| 2              | <i>Ilustomique</i>                      | <i>4</i>  | <i>Allows customization of texts &amp; fonts</i>                              |
| 3              | <i>Sardak look and Feel</i>             | <i>3</i>  | <i>All the fonts &amp; colors can be configured from the properties files</i> |
| 4              | <i>Image restoration and inpainting</i> | <i><del>2</del> 2</i>   | <i>Helps in restoration / changing / viewing.</i>                             |

|    |   |   |   |
|----|---|---|---|
| 5  | Hippopotam<br>Java<br>presentation<br>layer | 4 | Matches the requirements<br>It has a GUI with different<br>visual layout components |
| 6  | The<br>Tajilla<br>Project                   | 1 | No Relevance  |
| 7  | XPL<br>Editor                               | 3 | Visual design patterns<br>can be used   |
| 8  | Milliards                                   | 2 | Not so relevant<br>Basic application is in<br>triangles                             |
| 9  | DrawSWF                                     | 3 | Simple application that<br>can be used for medium                                   |
| 10 | ejang??a                                    | 2 | Flow snippets can be used<br>for analyzing non english<br>forms.                    |

# 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:

*Virtual machine supporting data transfers using 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>zPlot: A Z-Machine for Java</i>            | <i>3</i>   | <i>Code snippets for data transfer</i>                                   |
| 2              | <i>CH Java Virtual Machine</i>                | <i>1</i>   | <i>Not Relevant</i>  |
| 3              | <i><del>JSudoku</del> HttpTest</i>            | <i>2/3</i>   | <i>not exactly a data transfer tool. it monitors the transfer speed.</i> |
| 4              | <i>JSudoku</i>                                | <i>1</i>   | <i>Not Relevant</i>  |
| <i>B</i>       | <i>zPlot: RORB for Java Z-Machine in Java</i> | <i>1</i>   | <i>completely different when compared to the present application.</i>    |

|    |                           |  |   |
|----|---------------------------|--|---|
| 8  | Java<br>Profiling<br>Tool |  | Not related                               |
| 9  | Mastermind<br>for<br>J2ME |  | Not Relevant. It's<br>about a board game. |
| 8  | Open<br>Hospital          |  | Not Relevant                              |
| 9  | P-GRADE<br>ejud<br>portal |  | "   |
| 10 | pentrose                  |  | "   |
| 10 |                           |  |   |

# 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:

*Parsing a Java source file, output and modify Abstract Syntax tree*

| 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              | Javast        | 4  | Reputably fits the application in the first part. Though does not do the modification of AST |
| 2              | ANTLR in Java | 3  | Can be used for parsing the source file  |
| 3              | Code Sounding | 1  | Not Related  |
| 4              | openASN.1     | 3  | Production of AST  |

|    |   |   |  |
|----|---|---|--|
| 5  | FFP-Flat<br>file<br>parsing<br>library  | 2 | can be used for parsing<br>the Java file |
| 6  | WAB<br>abstract<br>windowing<br>toolkit | 2 | Production & AST                         |
| 7  | XtoXML                                  | 2 | Not exactly Matching                     |
| 8  | webTree                                 | 2 |  |
| 9  | Java VoiceXML<br>Editor                 | 1 | Not related                              |
| 10 | BNF for<br>Java                         | 2 | can be used for parsing                  |



# Experiment One

---

Participant id:

Participant first, last name:

VIJAY MANDADI

Block: **Yellow**

Please direct your browser to [http://www.xemplar.org/search/index\\_new.jsp](http://www.xemplar.org/search/index_new.jsp)

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

The tool looks good & is very useful in searching for code. ~~The matching~~ But I think the matching applications are not in order.



# 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:

*Exploring large datasets using MIME, genome sequences encoded using MIME, viewing MIME encoded data, MIME encoded data*

| 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<br><i>BIOLAP</i>                     | <i>Exploring large datasets using MIME</i> | 3  | Useful clones which can be used.                                  |
| 2<br><i>Genome Sequences<br/>HiSeq</i> | <i>Genome Sequences encoded using MIME</i> | 2  | Its returning generalized code about MIME project data            |
| 3<br><i>HiSeq data API and view</i>    | <i>viewing MIME encoded data</i>           | 2  | Has API's to view the encoded data                                |
| 4<br><i>Mime-Ris Java API and view</i> | <i>Java to Mime Major library</i>          | 3  | Has can be used to determine MIME type<br>Has API's for MIME data |

|    |   |   |   |
|----|---|---|---|
| 5  | SLTE Agent<br>Modelling<br>Software       | 1 | No Relation                                 |
| 6  | Data Time<br>Project/Class                | 3 | Can be used to determine<br>MIME types      |
| 7  | Matrix<br>Browser<br>Visualization<br>Kit | 2 | Can be used to determine<br>large data sets |
| 8  | xmiddle                                   | 1 | Not related to<br>MIME                      |
| 9  | Time<br>Type<br>Detection<br>Utility      | 3 | Has API's to detect<br>MIME types           |
| 10 | <del>Data Time</del><br>Realays           | 1 | Not Related to<br>MIME                      |
| 10 |   |   |   |

# 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 Transformation between vector spaces using linear transformations and translations*

| 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              | The Tajilla Project               | 3  | Has 'java files for Affine Transforms & Translation             |
| 2              | Java Cardio Pulmonary Simulations | 2  | Has files for Affine Transforms but not the exact functionality |
| 3              | Atomic Forms Wrapper              | 2  | <del>Has</del> Functionality - not exactly related              |
| 4              | The JUMP Pilot Project            | 2  | Few functionality matches                                       |

|    |  |   |   |
|----|--|---|---|
| 5  | GeoCurve                               | 3 | Asks for Affine transform<br>& using shear transformation<br>& translation. |
| 6  | Open<br>SVN<br>Viewer                  | 1 | No functionality<br>matching.   |
| 7  | SF3 Drawing:<br>2D<br>fighting<br>game | 3 | Affine transforms using<br>translations                                     |
| 8  | Rhino<br>Framework                     | 3 | Affine transforms using<br>shear transform and<br>translation.              |
| 9  | ANSI                                   | 3 | Affine transform<br>using translations                                      |
| 10 | XImage                                 | 2 | API's for translations  |

# 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: *Talk, record audio, and play MIDI records*

| 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              | Rasmus DSP                    | 4  | It describes instrument sound. Not our functionality                                  |
| 2              | The modular music writer      | 2  | Just playing capabilities   |
| 3              | Music & Audio Retrieval tools | 2  | Its like a search engine for music  |
| 4              | Audio Development System      | 3  | Has segments of code for recording and playback and almost has the same functionality |
| 5              | Kyri - Piano Tutor            | 4  | Its just a tutor for playing a musical instrument (piano)                             |

|    |   |   |  |
|----|---|---|--|
| 8  | Ritch   | 4 |  |
| 9  | FreeTTS   | 2 | Segments of code can be used for recording audio       |
| 8  | Java CPC-<br>Amstrad<br>CPC emulator<br>in JAVA | 1 | No Functionality match                                 |
| 9  | AMICO   | 1 | No Relation  |
| 10 | Web<br>Replay                                   | 2 | Only a part of code can be reused for one application. |
| 10 |   |   |  |



# 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: *big decimal numbers representation and manipulation.*

| 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>Decimal Floating point library</i> | <i>4</i>  | <i>Exact Implementation</i>                              |
| 2              | <i>ulab4 for Dows</i>                 | <i>3</i>  | <i>Has most of the functionality</i>                     |
| 3              | <i>Java Number Base Converter</i>     | <i>4</i>  | <i>This provides functionality for base conversion</i>   |
| 4              | <i>XML Equivalent Transformation</i>  | <i>2</i>  | <i>Deals with XML representation</i>                     |

|    |  |   |  |
|----|--|---|--|
| 5  | web<br>services<br>description<br>language<br>for Ta | 2 |  |
| 6  | E calculator   | 4 | <del>Has</del> all the<br>Does all the Big Decimal<br>calculations |
| 7  | Metall   | 3 | Provides few functionalities<br>for Big Decimal manipulation       |
| 8  | BigTwo<br>for game<br>gardens                        | 1 | of completely different  |
| 9  | disposable<br>phone<br>numbers                       | 1 | completely different<br>functionality                              |
| 10 | Big<br>Brother                                       | 1 | "  |

# Experiment Two

---

Participant id:

Participant first, last name:

VITAY MANDADI

Block: **Yellow**

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



# 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:

*Parsing HTML documents and creating a DOM Tree*

| 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>Divan Web HTML Presentation Technology</i> | <i>4</i>   | <i>Completely relevant to the application</i>  |
| 2              | <i>Streaming XML-DOM event processing</i>     | <i>2</i>   | <i>Deals basically with parsing of XML documents</i>                                 |
| 3              | <i>Domlet4j</i>                               | <i>3</i>   | <i>Deals with the first part of parsing HTML documents &amp; creating a DOM tree</i> |
| 4              | <i>jolene</i>                                 | <i>3</i>   | <i>"</i>   |

|    |   |   |   |
|----|---|---|---|
| 5  | Javast                                  | 2 | Partly related. Will help in parsing            |
| 6  | IBDOM                                   | 2 | Works the other way round<br>Conversion to HTML |
| 7  | Bytekit<br>TagBunt                      | 2 | Works the other way<br>round                    |
| 8  | JRSVP                                   | 3 | Can be used for parsing<br>the HTML document    |
| 9  | XML<br>Benchmark                        | 2 | DOM manipulation code<br>can be used            |
| 10 | Sprite<br>Web<br>Application<br>Toolkit | 1 | Completely different                            |

# 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: *Determining the property change in the application bean using bound indexed property*

| 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>Application Property Server</i>         | <i>3</i>   | <i>Helpful in determining the property changes</i>       |
| 2              | <i>Roze</i>                                | <i>3</i>   | <i>Properties can be determined</i>                      |
| 3              | <i>Maven Java Bean Introspection Tools</i> | <i>2</i>   | <i>Can be used to study the properties</i>               |
| 4              | <i>Dynamic Configuration Toolkit</i>       | <i>1</i>   | <i>No Relevance</i>                                      |
| 5              |  |  |  |

|    |   |   |  |
|----|---|---|--|
|    | J2ee<br>Appcheck                                | 3 | Can be used to guide<br>property changes                                 |
| 6  | Property<br>File<br>Manager                     | 3 | Properties can be monitored<br>but not by the bound.<br>indexed property |
| 7  | PrEd - A<br>Property<br>File Editor<br>for JAVA | 2 | "  |
| 8  | Self<br>Diagnose                                | 2 | Properties can be read   |
| 9  | propertedit<br>/ 18N property<br>editor         | 1 | No Relevance   |
| 10 | koraja  | 1 | No Relevance   |



# 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 matching and 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              | <i>Batch Text Replacer Wizard</i> | <i>4</i>   | <i>Same functionality</i>                                    |
| 2              | <i>Pattern Sandbox</i>            | <i>3</i>   | <i>Rows the first part of string matching</i>                |
| 3              | <i>graph Spider / MPL</i>         | <i>2</i>   | <i>Searches for matching things in a tree like structure</i> |
| 4              | <i>StrMatch</i>                   | <i>3</i>   | <i>Helps in developing &amp; testing the algorithm</i>       |

|    |   |   |  |
|----|---|---|--|
| 5  | GTXPARSE:<br>XML<br>Stream<br>Parser<br>API         | 2 | Helps in Recursive<br>pattern matching |
| 6  | xml-ez<br>parse                                     | 2 |  |
| 7  | Elite   | 3 | can be used for<br>pattern matching    |
| 8  | Search<br>Desktop                                   | 3 | Pattern matching                       |
| 9  | jrexx:<br>automatic<br>based Regexp<br>api for Java | 3 | can be used for pattern<br>matching    |
| 10 | Asikernel   | 2 |  |

# 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 that generates sounds and supports different transmitters and receivers*

| 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>Generator - A code generator for Java</i>    | <i>1</i>  | <i>No relevance. It generates code</i>                   |
| 2              | <i>Semiofon emotional speech synthesizer</i>    | <i>3</i>  | <i>Qps helps in speech synthesis</i>                     |
| 3              | <i>Software for infrared data communication</i> | <i>1</i>  | <i>data communication</i>                                |
| 4              | <i>WISL (What the Internet Sounds like)</i>     | <i>3</i>  | <i>Helps in generation of sounds</i>                     |

|    |                                    |   |                            |
|----|------------------------------------|---|----------------------------|
| 5  | JDDM<br>(Drop<br>Down<br>Menu)     | 1 | No relevance               |
| 6  | jbuggy                             | 2 | Somewhat relevant          |
| 7  | LoFi No-<br>Log<br>File<br>Monitor | 2 | Helps in playing<br>sounds |
| 8  | Blast<br>Parser                    | 2 |                            |
| 9  | News<br>Dispatcher                 | 1 | Not relevant               |
| 10 | Pintrack                           | 2 |                            |