**Research Notebook**

Research Notebook is a cross-platform, self-contained, interactive scripting environment inspired by [IPython notebook], for people who prefer Java-like syntax of [JavaScript].

This tool utilizes the same metaphor of a document with embedded code cells. The result of execution of script containing in a cell is immediately rendered in an appropriate format: text, plot, table, or image. These results are persisted in the document so they can be shared or exported to HTML or PDF.

[picture]

**Cross-Platform Scripting Environment**

The Research Notebook is designed to provide sufficiently rich set of tools to account for most common tasks facing the users without requiring installation of external components.

The Notebook provides a way to create scripts that run equally well on Windows, Mac OS X, Linux, or Solaris, without having to deal with archaic and arcane peculiarities of bash or Power Shell. This tool provides mechanisms to simplify migration of scripts to another system: an internal database for storing sensitive data like passwords and API keys, or machine-specific configuration like paths and file names.

**Filesystem Tools**

Incorporated into the application are the tools to deal with file system, including copying, renaming files, scanning subdirectories, file compression and decompression, hashing or encryption.

**Network Tools**

A set of tools is available for scripts to issue HTTP requests, load data, query external REST APIs.

**Data Processing**

One of the possible applications of the Research Notebook is to serve as a platform for database development and maintenance. The application allows the user to write simple queries or write complex processing and visualization scripts.

**Extensible**

It is easy to integrate custom Java code: simply add your JAR to the application classpath. External classes can be called from JavaScript code using fully qualified names.

**Examples**

package tracker

image manipulation

**Under Development**

The tool is currently under active development. Some declared features are not yet available, the other may not perform as expected.

Feel free to contact me with bug reports, suggestions and feature requests.

**Download**

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