



# **MyBox: Easy Tools Set User Guide - Overview**

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Version: 6.7.3

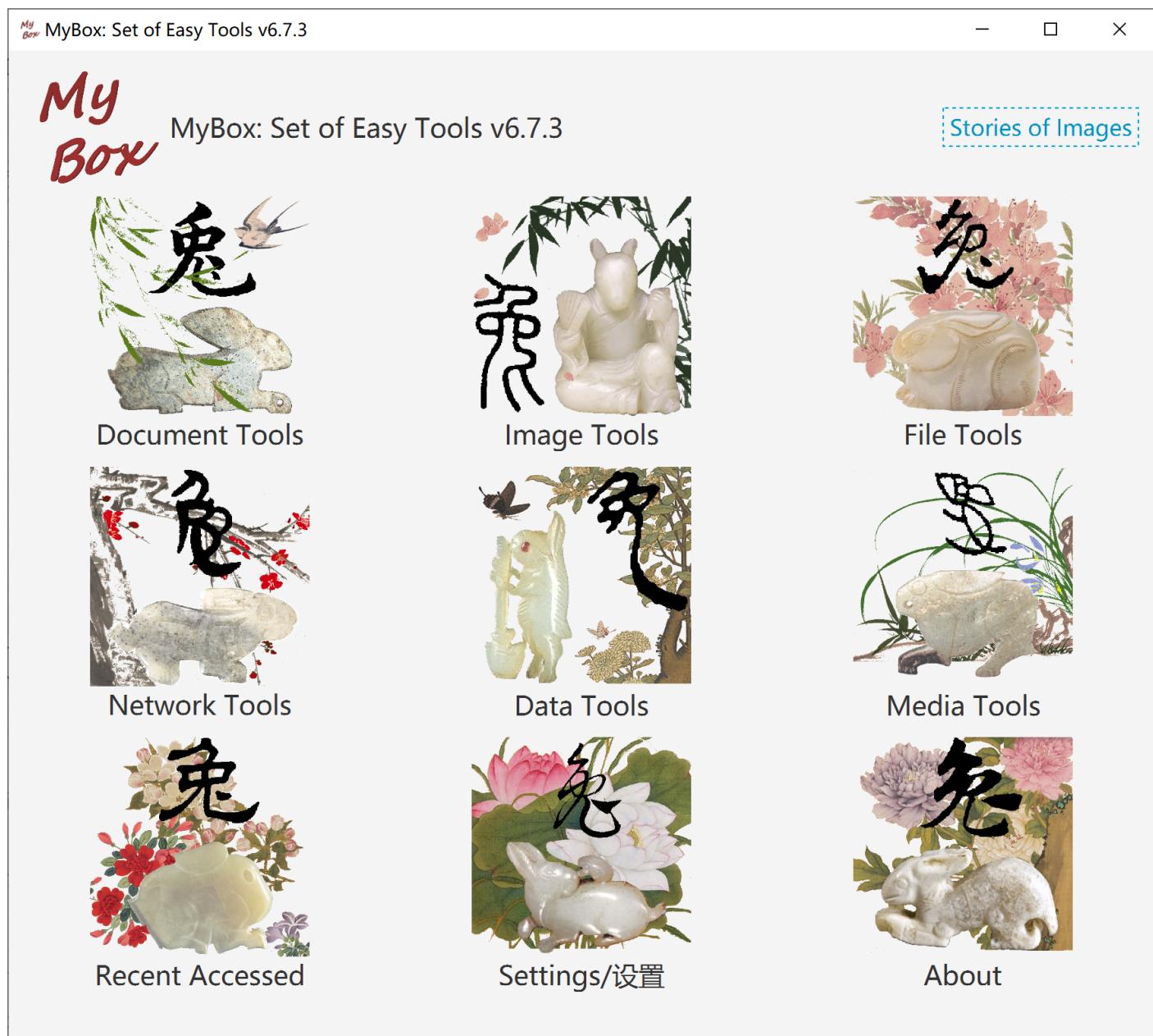
Date: 2023-5-22

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## 1 Introduction

This is desktop application based on JavaFx to provide simple and easy functions. It's free and open sources.



## 1.1 What's New

2023-5-22 v6.7.3

- Added:
  - JSON editor.
  - Match list of finding string.
  - Find string/bytes in files in batch.
- Improved:
  - RYB complementary should refer to brightness and saturation of original color.
  - Image Quantization: Pick first colors for palette to avoid new colors which are not in original image.
  - Image Quantization: Make cluster center by colors counting rather than create new color
  - Simplify interface of “Picking colors in image”.
  - Improve interfaces of “Repeat Image” and “Analyse Image”
  - Improve codes of “Image Edit Histories” and “File Backups”.
  - Option about whether commit modification when data cell loses focus.
- Upgrade java and javafx to version 20.
- Solved problems:
  - Fail to build due to download failure of image4j.
  - Location distribution: Fail to load map.
  - Row expression: Fail to evaluate when column value contains quotes.
  - Data editing should be canceled when click key ESC.
  - Fail to read request head of network address.
  - Can not delete file backups.
  - PDF Viewer: Fail to display outlines.
  - Recent target paths are read incorrectly.
  - Edit image: Histories are loaded too slowly when image size is large.
  - Lots of exceptions may happen when load html in webview.

[Closed requirements/bugs in this version](#)

## 1.2 Notice

Without enough testings, MyBox has low reliability and bad stability. When use MyBox, following may happen:

- Files/Data are damaged.
- Output wrong results.
- Functions fail.
- Other unexpected behaviours.

## 1.3 Cross Platforms

MyBox is implemented in pure Java and only based on open sources, and it can run on platforms which support Java 20.

Versions before v5.3 are based on Java 8.

## 1.4 Internationalized

1. All codes of MyBox are internationalized. Language can be switched in time.
2. Each language is defined in one resource files, like: "Messages\_NAME.properties".
3. Support adding new languages online. Table is provided with English as comparison. New languages take effects at once.  
Example, the new language is named as "aa", and its resource files are Messages\_aa.properties.
4. Translated languages can be shared with others: Put the files under "mybox\_languages" of data path and MyBox is aware of them immediately.
5. Embed Chinese and English, whose files are under path MyBox/src/main/resources/bundles/.

Language	Resource file of interface
Chinese	Messages_zh_CN.properties
English	Messages_en.properties

## 1.5 Personal

1. All functions are executed in local host.
2. All data are saved in local host.
3. No register/login/DataCenter/Cloud.
4. Access network only when user requests.
5. Only read/write data which user need.

## 1.6 Friendly

1. Provide tips of current function/interface.
2. Remember user's inputs or selections, and provide histories list.
3. Interfaces can be adjusted and some panes can be hidden.
4. Behaviours of some controls can be chosen.
5. Provide context menu and function menu to texts/image/html/data.
6. Current texts/image/html/data can be popped.
7. Clipboards of texts/image/data can be managed.
8. Provide examples and useful information.
9. Appearance of interface and controls can be chosen and modified.

## 1.7 Data Compatible

1. Exported data are in common text formats, like txt/csv/xml/json/html.
2. Imported data are in common text format, like txt/csv.
3. At least one exported format can be imported.
4. Imported data are self-contain, that original data can be rebuilt without extra data.

## 1.8 Embedded Database System

1. Derby is free and open sources:
  - When start MyBox for the first time, some seconds are cost to create internal database tables and write initial data.
  - All database files are under data path, so different target data sets can be handled by switching data paths.
  - Multiple MyBox instances can share data by visiting same data path.
  - When database files not found under data path(damaged or deleted unexpectedly), MyBox can create database automatically.
2. Derby runs in embedded mode by default:
  - External processes can not access the database.
  - Only one MyBox instance can use the database at the same time.
3. Derby can run in network mode:
  - The first visitor becomes the server.
  - Processes of local host can visit the database in port 1527 and becomes its clients.
  - Processes out of local host can not visit the database directly.
4. MyBox internal tables save the data required by all functions. User can access and modify the internal data online.
5. User can define customized database tables.
6. User can view and edit definitions and data of database tables in paginated tables, and execute SQL statements.
7. To implement data sorting, transposing, statistic, and grouping, MyBox will create temporary database tables, and clear them in time.

## 1.9 Assit Coding Self

1. Monitor memory/CPU usage in real time.
2. Adjust logging online.
3. Generate icons automatically.
4. Edit and apply languages online.
5. Test automatically.
6. All kinds of documents.

## 2 Resources Addresses

Contents	Link
Project Main Page	<a href="https://github.com/Mararsh/MyBox/">https://github.com/Mararsh/MyBox/</a>
Source Codes and Compiled Packages	<a href="https://github.com/Mararsh/MyBox/releases">https://github.com/Mararsh/MyBox/releases</a>
Submit Software Requirements and Problem Reports	<a href="https://github.com/Mararsh/MyBox/issues">https://github.com/Mararsh/MyBox/issues</a>
Data	<a href="https://github.com/Mararsh/MyBox_data">https://github.com/Mararsh/MyBox_data</a>
Documents	<a href="https://github.com/Mararsh/MyBoxDoc">https://github.com/Mararsh/MyBoxDoc</a>
Mirror Site	<a href="https://sourceforge.net/projects/mara-mybox/files/">https://sourceforge.net/projects/mara-mybox/files/</a>
Cloud Storage	<a href="https://pan.baidu.com/s/1fWMRzym_jh075OCX0D8y8A#list/path=%2F">https://pan.baidu.com/s/1fWMRzym_jh075OCX0D8y8A#list/path=%2F</a>

The screenshot shows a GitHub repository page for 'Mararsh / MyBox'. The top navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. Below the navigation bar, there are sections for Code, Issues (41), Pull requests, Discussions, Actions, Projects, Wiki, Security, Insights, and Settings. The 'Code' button is highlighted with a red circle. On the left, there's a list of files and folders: alpha/MyBox (a6.5.9), docs (v6.5.8), en (v6.5.8), released/MyBox (v6.5.8), .gitignore (v6.5.6), LICENSE (Initial commit), and README.md (v6.5.8). On the right, there's an 'About' section with a description of the project as 'Easy tools of document, image, file, network, location, color, and media.' followed by a list of supported technologies like html, markdown, pdf, image, ocr, csv, sql, database, excel, convert, location, javafx, media, bytes, ppt, jshell, and matrix. Below that is a 'Readme' link. The 'Releases' section is also circled in red, showing a latest release 'v6.5.8' (18 days ago) and 88 other releases.

### 3 Documents

Name	Version	Time	English	Chinese
Development Logs	6.7.3	2023-5-22	<a href="#">html</a>	<a href="#">html</a>
Shortcuts	6.7.2	2023-4-16	<a href="#">html</a>	<a href="#">html</a>
Functions list	6.7.3	2023-5-22	<a href="#">html</a>	<a href="#">html</a>
Packing Steps	6.7.2	2023-4-16	<a href="#">html</a>	<a href="#">html</a>
Development Guide	2.1	2020-8-27	<a href="#">PDF odt</a>	<a href="#">PDF odt</a>
User Guide - Overview	6.7.3	2023-5-22	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - Data Tools	6.7.2	2023-4-16	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - Document Tools	6.7.1	2023-3-13	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - Image Tools	6.7.2	2023-4-16	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - File Tools	6.7.1	2023-3-13	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - Network Tools	6.7.2	2023-4-16	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - Media Tools	6.7.1	2023-3-13	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - Development Tools	6.7.1	2023-3-13	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
Tips in Interfaces	6.7.3	2023-5-22	<a href="#">html</a>	<a href="#">html</a>
About - Data in Two-dimensional Storage Structure	6.7.3	2023-5-22	<a href="#">html</a>	<a href="#">html</a>
About - row expression and row filter	6.7.2	2023-4-16	<a href="#">html</a>	<a href="#">html</a>
About - data grouping	6.7.1	2023-3-13	<a href="#">html</a>	<a href="#">html</a>
About - Data Analysis	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
About - Coordinate System	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
About - Color	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
About - Media	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
About - Items in one sentence about java	6.7.3	2023-5-22	<a href="#">html</a>	<a href="#">html</a>
About - Items in one sentence about javafx	6.7.3	2023-5-22	<a href="#">html</a>	<a href="#">html</a>
Examples - Information in Tree	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Examples - Favorite Address	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Examples - Notes	6.7.2	2023-4-16	<a href="#">html</a>	<a href="#">html</a>
Examples - SQL	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Examples - JShell	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Examples - JEXL	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Examples - JavaScript	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Examples - Math Function	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Examples - Row Filter	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Palette - Common Web Colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>

Name	Version	Time	English	Chinese
Palette - Chinese Traditional Colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Japanese Traditional Colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Colors from colorhexa.com	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Art hues wheel(RYB) - 12 colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Art hues wheel(RYB) - 24 colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Art hues wheel(RYB) - 360 colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Optical hues wheel(RGB) - 12 colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Optical hues wheel(RGB) - 24 colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Optical hues wheel(RGB) - 360 colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Art paints	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - MyBox Colors	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Gray scale	6.7.3	2023-5-22	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Stories of Images	6.7.2	2023-4-16	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
Useful links	6.7.3	2023-5-22	<a href="#">html</a>	<a href="#">html</a>

## 4 Download and Execution

### 4.1 Source Codes

Source Codes	Size	Development Guide	Packing Steps
<a href="#">MyBox-src.zip</a>	65M-	<a href="#">pdf</a>	<a href="#">html</a>

### 4.2 Self-contain packages

Self-contain packages include all files and need not java env nor installation.

Platform	Link	Size	Launcher
win10 x64	<a href="#">MyBox-win-x64.zip</a>	260MB-	MyBox.exe
CentOS 7 x64	<a href="#">MyBox-CentOS7-x64.tar.gz</a>	280MB-	MyBox
mac	<a href="#">MyBox-mac.dmg</a>	280MB-	MyBox.app

User can double click the launcher to start MyBox or run it by command line. The default “Open Method” of image/text/PDF files can be associated to MyBox and a file can be opened directly by MyBox by double clicking the file’s name.

### 4.3 Jar

When JRE or JDK([Oracle jdk](#) or [open jdk](#)) is installed, jar can run:

Platform	Link	Size	Requirements
win	<a href="#">MyBox-win-jar.zip</a>	190MB-	Java 20 or higher
linux	<a href="#">MyBox-linux.jar.gz</a>	200MB-	Java 20 or higher
mac	<a href="#">MyBox-mac.jar.gz</a>	200MB-	Java 20 or higher

Run following command to launch this program with Jar package:

```
java -jar MyBox.jar
```

A file path can follow the command as argument to be opened directly by MyBox. Example, following command will open the image:

```
java -jar MyBox.jar /tmp/a1.jpg
```

### 4.4 Versions

Contents of this document may be expired, but its links refer to the latest versions.

The latest versions and all archived versions can be downloaded in following addresses:

address	dowloads	readme
github	<a href="https://github.com/Mararsh/MyBox/releases">https://github.com/Mararsh/MyBox/releases</a>	<a href="#">English</a> <a href="#">Chinese</a>
sourceforge	<a href="https://sourceforge.net/projects/mara-mybox/files/">https://sourceforge.net/projects/mara-mybox/files/</a>	<a href="#">English</a> <a href="#">Chinese</a>
cloud	<a href="https://pan.baidu.com/s/1fWMRzym_jh075OCX0D8y8A#list/path=%2F">https://pan.baidu.com/s/1fWMRzym_jh075OCX0D8y8A#list/path=%2F</a>	

## 4.5 Migration

1. Each version has itself's configuration file. New version can copy parameters from existed versions.
2. Data handled in each version are under “Data Directory” referred by it. Multiple versions can refer to same data directory.
3. MyBox is backward compatibility: Later version can work on data of previous versions. While forward compatibility is not supported: Wrong may happen when old version handles data of new version.

## 4.6 Configuration

Configuration file is under “User Home”:

Platform	Path of MyBox Configuration File
win	C:\users\UserName\mybox\MyBox_vVersion.ini
linux	/home/UserName/mybox/MyBox_vVersion.ini
mac	/Users/UserName/mybox/MyBox_vVersion.ini

Add parameter “config="FilePath"" when run jar to change configuration file temporarily.  
Function “Settings” can be used to change configuration values.

## 5 Implementation

MyBox is based on following open sources:

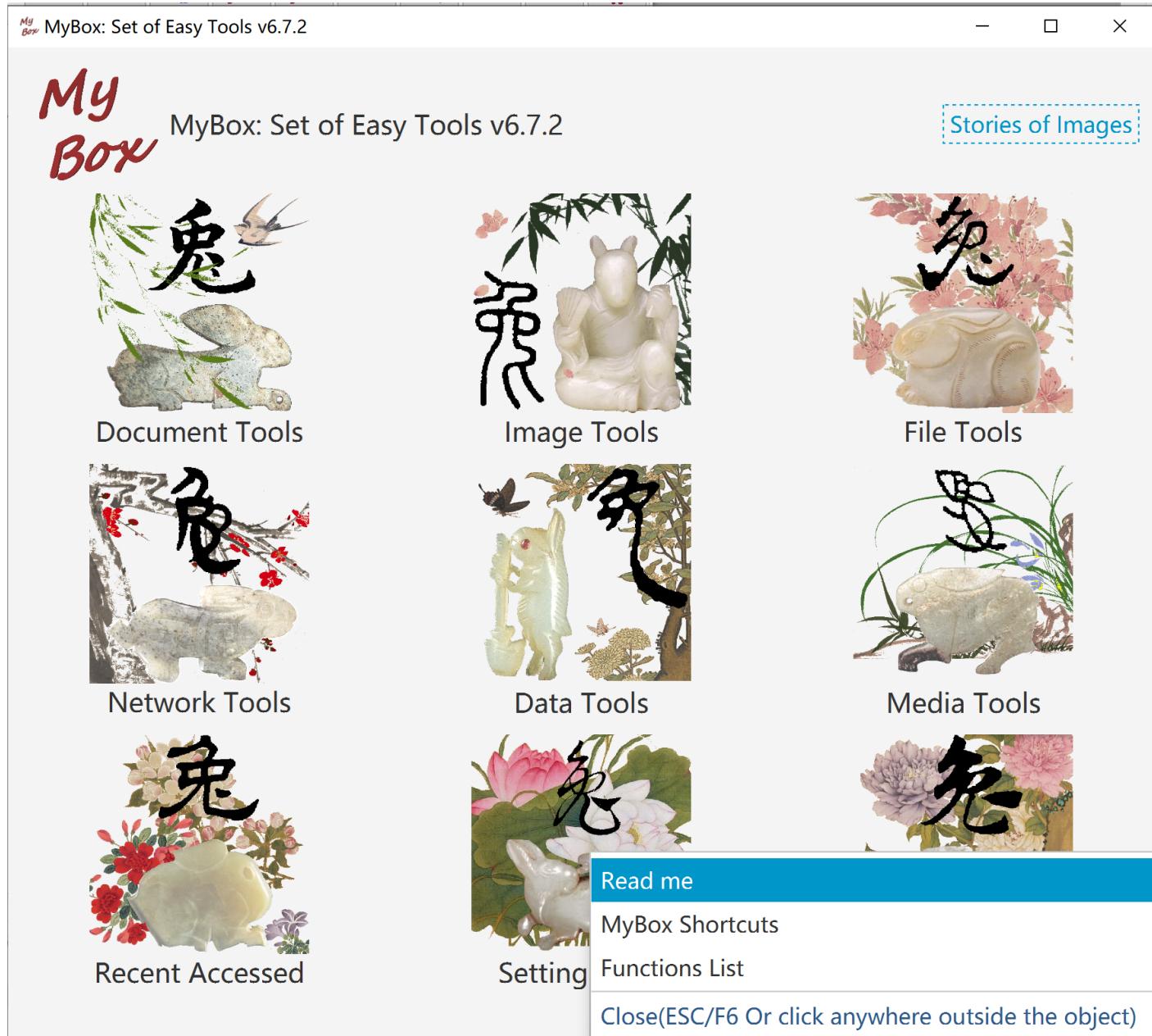
Name	Role	Link
JDK	Java	<a href="http://jdk.java.net/">http://jdk.java.net/</a>
		<a href="https://www.oracle.com/technetwork/java/javase/downloads/index.html">https://www.oracle.com/technetwork/java/javase/downloads/index.html</a>
		<a href="https://docs.oracle.com/en/java/javase/20/docs/api/index.html">https://docs.oracle.com/en/java/javase/20/docs/api/index.html</a>
JavaFx	GUI	<a href="https://gluonhq.com/products/javafx/">https://gluonhq.com/products/javafx/</a>
		<a href="https://docs.oracle.com/javafx/2/">https://docs.oracle.com/javafx/2/</a>
		<a href="https://gluonhq.com/products/scene-builder/">https://gluonhq.com/products/scene-builder/</a>
		<a href="https://openjfx.io/javadoc/20/">https://openjfx.io/javadoc/20/</a>
Derby	Database	<a href="http://db.apache.org/derby/">http://db.apache.org/derby/</a>
NetBeans	IDE	<a href="https://netbeans.org/">https://netbeans.org/</a>
jpackage	pack	<a href="https://docs.oracle.com/en/java/javase/20/docs/specs/man/jpackage.html">https://docs.oracle.com/en/java/javase/20/docs/specs/man/jpackage.html</a>
maven	build	<a href="https://maven.apache.org/">https://maven.apache.org/</a>
jai-imageio	Image manufacture	<a href="https://github.com/jai-imageio/jai-imageio-core">https://github.com/jai-imageio/jai-imageio-core</a>
PDFBox	PDF manufacture	<a href="https://pdfbox.apache.org/">https://pdfbox.apache.org/</a>
PDF2DOM	PDF to html	<a href="http://cssbox.sourceforge.net/pdf2dom/">http://cssbox.sourceforge.net/pdf2dom/</a>
GifDecoder	Decode broken gif	<a href="https://github.com/DhyanB/Open-Imaging/">https://github.com/DhyanB/Open-Imaging/</a>
EncodingDetect	Determine encoding of text file	<a href="https://www.cnblogs.com/ChurchYim/p/8427373.html">https://www.cnblogs.com/ChurchYim/p/8427373.html</a>
Lindbloom	Color theory	<a href="https://icons8.com/icons/set/home">https://icons8.com/icons/set/home</a>
Free Icons	Icon	<a href="http://brucelindbloom.com/index.html">http://brucelindbloom.com/index.html</a>
tess4j	OCR	<a href="https://github.com/nguyenq/tess4j">https://github.com/nguyenq/tess4j</a>
tesseract	OCR	<a href="https://github.com/tesseract-ocr/tesseract">https://github.com/tesseract-ocr/tesseract</a>
barcode4j	Create barcodes	<a href="http://barcode4j.sourceforge.net">http://barcode4j.sourceforge.net</a>
zxing	Create/Decode barcodes	<a href="https://github.com/zxing/zxing">https://github.com/zxing/zxing</a>
flexmark-java	Convert Markdown	<a href="https://github.com/vsch/flexmark-java">https://github.com/vsch/flexmark-java</a>
commons-compress	archive/compress	<a href="https://commons.apache.org/proper/commons-compress">https://commons.apache.org/proper/commons-compress</a>
XZ for Java	archive/compress	<a href="https://tukaani.org/xz/java.html">https://tukaani.org/xz/java.html</a>
ffmpeg	convert/create medias	<a href="http://ffmpeg.org">http://ffmpeg.org</a>
image4j	ico format	<a href="https://github.com/imcdonagh/image4j">https://github.com/imcdonagh/image4j</a>
AutoCommitCell	Submit updates	<a href="https://stackoverflow.com/questions/24694616_(Ogmios)">https://stackoverflow.com/questions/24694616_(Ogmios)</a>
GaoDe	Map	<a href="https://lbs.amap.com/api/javascript-api/summary">https://lbs.amap.com/api/javascript-api/summary</a>
GaoDe	Coordinate	<a href="https://lbs.amap.com/api/webservice/guide/api/georegeo">https://lbs.amap.com/api/webservice/guide/api/georegeo</a>

Name	Role	Link
WeiBo	Image materials	<a href="https://weibo.com/3876734080/InmB1aPiL?type=comment#_rnd1582211299665">https://weibo.com/3876734080/InmB1aPiL?type=comment#_rnd1582211299665</a>
poi	Microsoft Documents	<a href="https://poi.apache.org">https://poi.apache.org</a>
LabeledBarChart	JavaFx charts	<a href="https://stackoverflow.com/questions/34286062/how-to-clear-text-added-in-a-javafx-barchart/41494789#41494789 (Roland)">https://stackoverflow.com/questions/34286062/how-to-clear-text-added-in-a-javafx-barchart/41494789#41494789 (Roland)</a>
commons-csv	CSV	<a href="https://commons.apache.org/proper/commons-csv/">https://commons.apache.org/proper/commons-csv/</a>
geonames	Location data	<a href="https://www.geonames.org/countries/">https://www.geonames.org/countries/</a>
world-area	Location data	<a href="https://github.com/wizardcode/world-area">https://github.com/wizardcode/world-area</a>
China National Bureau of Statistics	Data	<a href="http://www.stats.gov.cn/tjsj/tjbz/tjyqhdmhcxhfdm/">http://www.stats.gov.cn/tjsj/tjbz/tjyqhdmhcxhfdm/</a>
JHU	COVID-19 data	<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>
Website	Color data	<a href="https://tool.lanrentuku.com/color/china.html">https://tool.lanrentuku.com/color/china.html</a>
Book	Materials	<a href="https://book.douban.com/subject/3894923/">https://book.douban.com/subject/3894923/</a>
National Geomatics Center of China	Map	<a href="http://lbs.tianditu.gov.cn/api/js4.0/guide.html">http://lbs.tianditu.gov.cn/api/js4.0/guide.html</a>
movebank	Location data	<a href="https://www.datarepository.movebank.org">https://www.datarepository.movebank.org</a>
CoordinateConverter	convert coordinates	<a href="https://www.jianshu.com/p/c39a2c72dc65?from=singlmessage">https://www.jianshu.com/p/c39a2c72dc65?from=singlmessage</a>
JavaMail	email	<a href="https://javaee.github.io/javamail/">https://javaee.github.io/javamail/</a>
Commons IO	File IO	<a href="https://commons.apache.org/proper/commons-io/">https://commons.apache.org/proper/commons-io/</a>
colorhexa	Color data	<a href="https://www.colorhexa.com/color-names">https://www.colorhexa.com/color-names</a>
WQY	Font file	<a href="http://wenq.org/wqy2/">http://wenq.org/wqy2/</a>
ttc2ttf	Extract ttf	<a href="https://github.com/fermi1981/TTC_TTF">https://github.com/fermi1981/TTC_TTF</a>
sfds	Handwriting	<a href="https://book.douban.com/subject/10465940/">https://book.douban.com/subject/10465940/</a>
Book	Materials	<a href="http://www.sfds.cn/725B/">http://www.sfds.cn/725B/</a>
PaginatedPdfTable	PDF	<a href="https://github.com/eduardohl/Paginated-PDFBox-Table-Sample">https://github.com/eduardohl/Paginated-PDFBox-Table-Sample</a>
jsoup	DOM	<a href="https://jsoup.org/">https://jsoup.org/</a>
ZhiHu	Materials	<a href="https://www.zhihu.com/question/41580677/answer/1300242801">https://www.zhihu.com/question/41580677/answer/1300242801</a>
commons-math	Calculation	<a href="https://commons.apache.org/proper/commons-math/index.html">https://commons.apache.org/proper/commons-math/index.html</a>
JEXL	Calculation	<a href="https://commons.apache.org/proper/commons-jexl">https://commons.apache.org/proper/commons-jexl</a>
OpenOffice	Document	<a href="http://www.openoffice.org/">http://www.openoffice.org/</a>
nashorn	JavaScript	<a href="https://openjdk.org/projects/nashorn/">https://openjdk.org/projects/nashorn/</a>
echarts-gl	WebGL	<a href="https://github.com/ecomfe/echarts-gl">https://github.com/ecomfe/echarts-gl</a>
RYB hues	art colors	<a href="https://blog.csdn.net/weixin_44938037/article/details/90599711">https://blog.csdn.net/weixin_44938037/article/details/90599711</a>
jsch	sftp	<a href="http://www.jcraft.com/jsch/">http://www.jcraft.com/jsch/</a>
jackson	json	<a href="https://github.com/FasterXML/jackson">https://github.com/FasterXML/jackson</a>

## 6 Common Functions in Interfaces

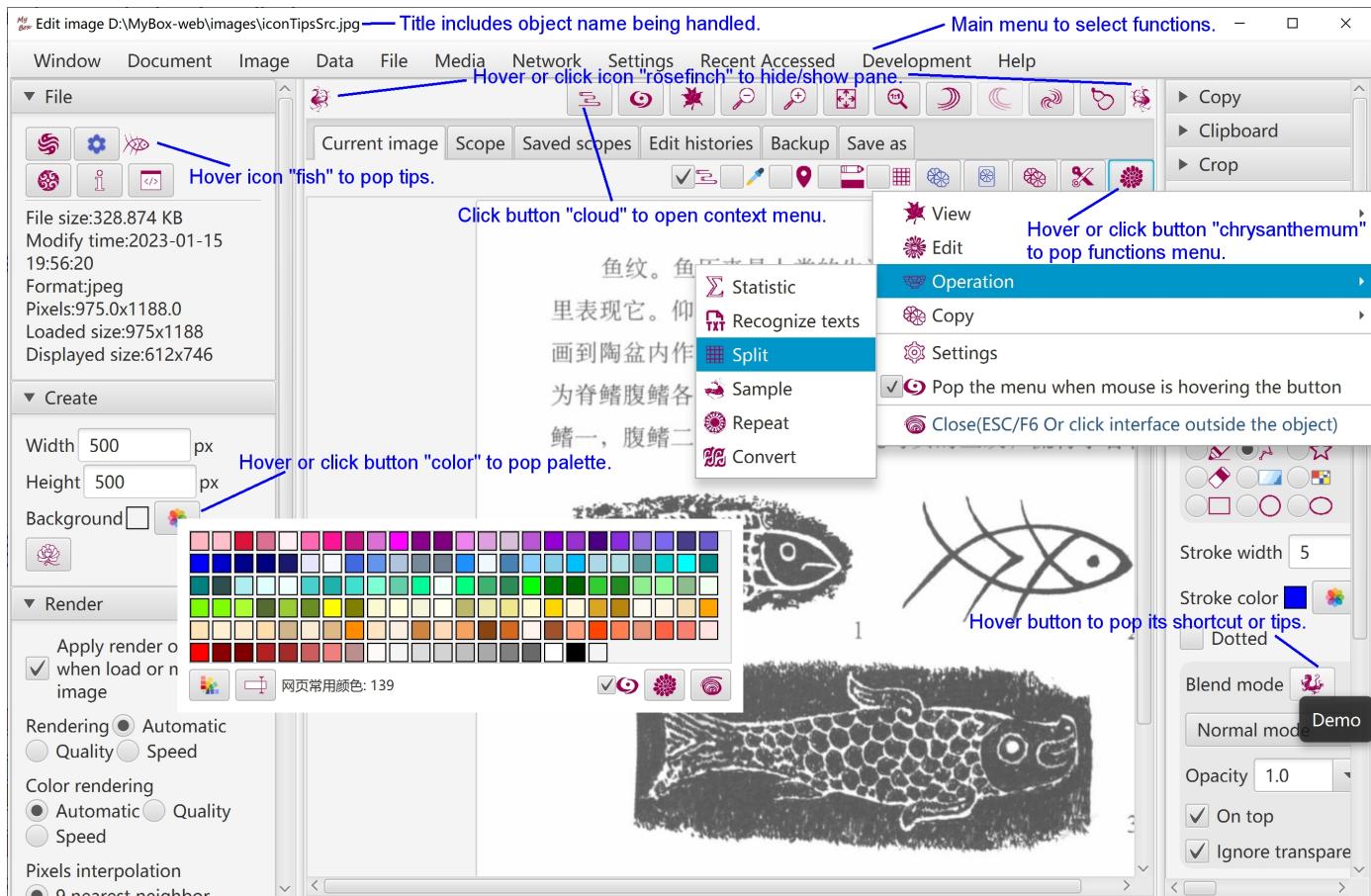
### 6.1 Main Interface

Main interface is shown after MyBox is launched. Move mouse over one icon to pop its menu. Then select a tool to start.



## 6.2 Interface Layout

1. Window title includes the object name being handled.
2. Main menu in top to open windows of functions.
3. Some interfaces include pagination toolbar which is generally in bottom.
4. Some interface include icon Fish. Hover mouse upon it to pop tips.
5. Some interfaces include left pane or right pane. If icon Rosefinch is there, hover mouse upon it to hide/show the pane.
6. To some buttons, checkbox, or icon, shortcut or tips will be popped when hover mouse upon them.

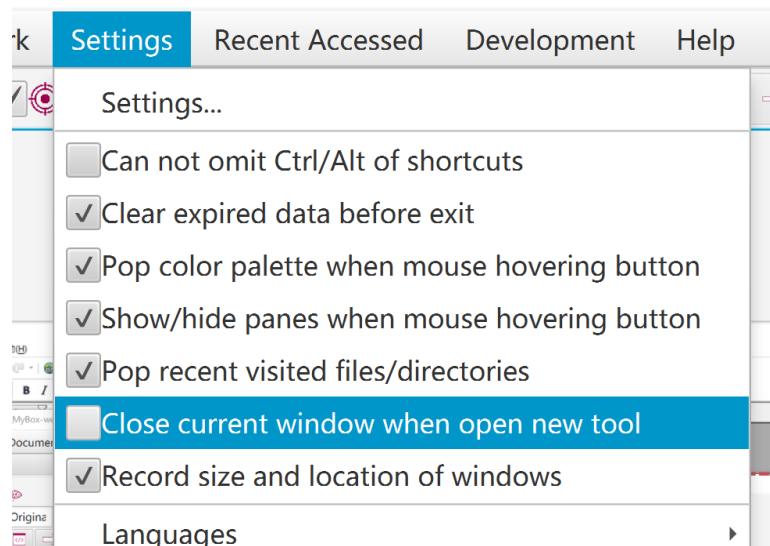


## 6.3 Set Font Size

1. Decrease font size by press key “CTRL” and key “-” at same time.
2. Increase font size by press key “CTRL” and key “=” at same time.
3. Select one font size of 12px, 15px, and 17px by click menu item directly.
4. Set font size in Setting window.

## 6.4 Open New Stage

To open new window for new scene and keep current scene in current window, **do not select** menu item “Settings”-“Close current window when open new tool”.

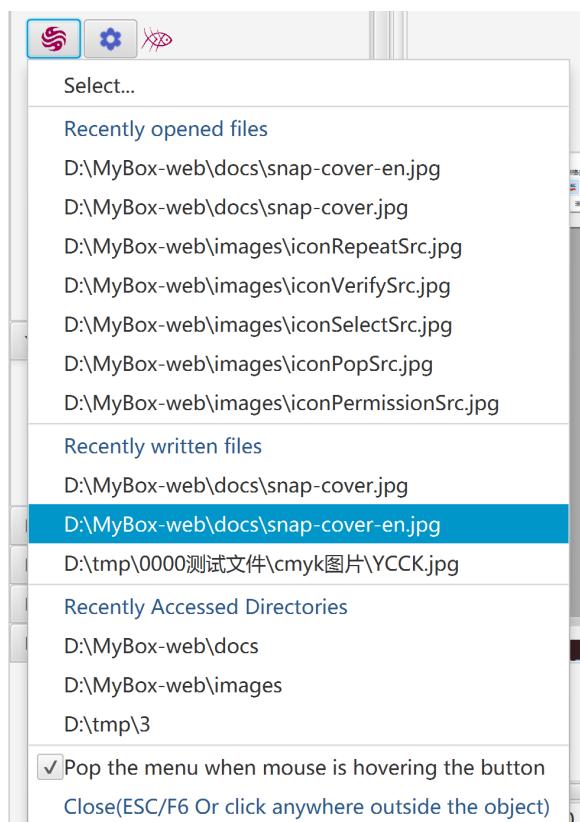


## 6.5 Restore Scene Size

By selecting menu item “Settings”-“Record size and location of windows”, recent size and location of each stage will be saved and restored when it is opened again.

## 6.6 Recent Visited Files/Directories

When menu item “Settings”-“Pop recent visited files/directories” is selected, each access of files/directories will be record and list will be popped when mouse is moved upon the button of selection. Example:



## 6.7 Data Table

The screenshot shows the MyBox application interface for editing a CSV file. The main window displays a table of data with columns: Table r..., Data row, year\_, population at ye..., male(ten t..., female(te...), urban(ten tho..., rural(ten t...). A specific cell in the 'population at ye...' column for row 6 is highlighted with a blue border, containing the value '60266.1'. The application includes a toolbar with icons for file operations, a column visibility dialog on the right, and pagination controls at the bottom.

**Select rows and click buttons to handle.**

**Click header to sort rows.**

**Drag header to adjust order of columns.**

**Click data cell to edit.**  
**Press Enter or click other location to commit.**

**Pagination** — Selected: 1 Rows: [1-50]50/73 Page size 50 Page 1 /2

Table r...	Data row	year_	population at ye...	male(ten t...	female(te...	urban(ten tho...	rural(ten t...
<input type="checkbox"/> 1	1	1949	54,167	2,8145	26022		
<input type="checkbox"/> 2	2	1950	55,196	2,8669	26527		
<input type="checkbox"/> 3	3	1951	56,300	2,9231	27069		
<input type="checkbox"/> 4	4	1952	57,482	2,9833	27649		
<input type="checkbox"/> 5	5	1953	58,796	3,0468	28328		
<input checked="" type="checkbox"/> 6	6	1954	60266.1	3,1242	29024		
<input type="checkbox"/> 7	7	1955	61,465.1	3,1809	29656		
<input type="checkbox"/> 8	8	1956	62,828	3,2536	30292		
<input type="checkbox"/> 9	9	1957	64,653	3,3469	31184		
<input type="checkbox"/> 10	10	1958	65,994	3,4195	31799	10721	55273
<input type="checkbox"/> 11	11	1959	67,207	3,4890	32317	12371	54836
<input type="checkbox"/> 12	12	1960	66,207	3,4283	31924	13073	53134
<input type="checkbox"/> 13	13	1961	65,859	3,3880	31979	12707	53152
<input type="checkbox"/> 14	14	1962	67,296	3,4517	32778	11659	55636
<input type="checkbox"/> 15	15	1963	69,172	3,5533	33639	11646	57526
<input type="checkbox"/> 16	16	1964	70,499	3,6142	34357	12950	57549
<input type="checkbox"/> 17	17	1965	72,538	3,7128	35410	13045	59493
<input type="checkbox"/> 18	18	1966	74,512	3,8180	36353	13313	61229

1. To select rows:
  - o Press key SHIFT and click rows to select multiple rows of a range.
  - o Press key CTRL and click rows to select multiple rows one by one.
  - o Click the checkboxes in head of rows.
2. To edit data:
  - o Header texts of editable columns are in blue (Editable primary keys are still in red).
  - o Click the editable cell, then its input field will be shown.
  - o When editable cell loses focus, its value will be checked and invalid data will be rejected.
3. To display/hide columns, click button "+" in right side of table header.  
This operation does not affect data.
4. To adjust order of columns, click and drag column headers.  
This operation does not affect data.
5. - To order rows:

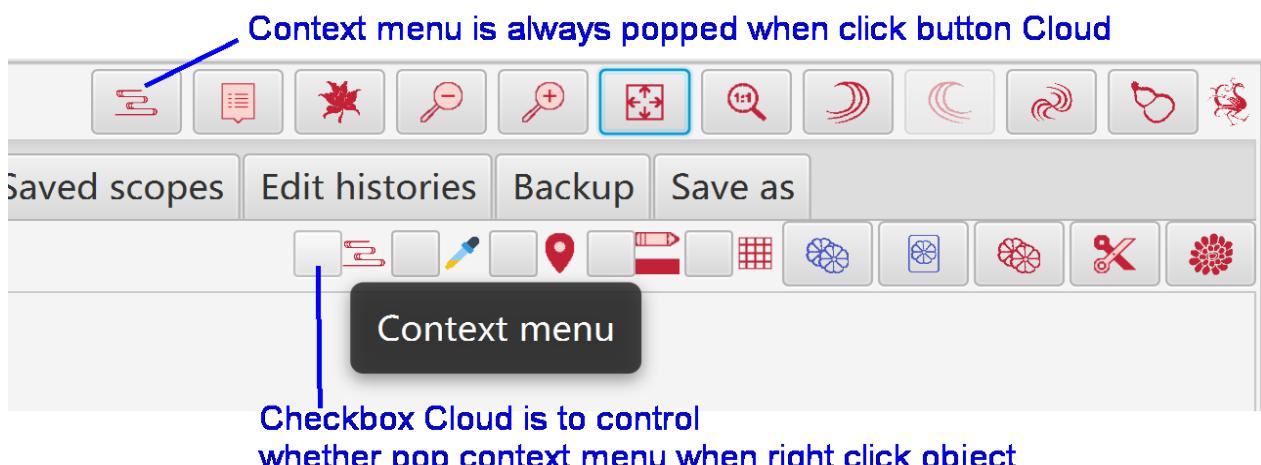
- Click column header for ascending order by this column.
- Click column header again for descending order by this column.
- Click column header for third time to cancel ordering of this column.
- Press SHIFT and click more column headers to order by multiple columns.

This operation only affect current data in table.

6. Header texts of primary keys are in red and auto-increated keys are in orange.

## 6.8 Context Menu

1. This menu is popped when right click object like text, image, or table.
2. If interface includes button “Cloud”, context menu will be popped when click this button.
3. If interface includes checkbox “Cloud”:
  - If this checkbox is not selected, the context menu is not popped when right click object.
  - If this checkbox is selected, the context menu is popped when right click object.
  - Checkbox “Cloud” does not affect button “Cloud”, which means context menu is always popped when click button “Cloud”.



## 6.9 Window “Examples”

Window “Examples” is popped when hover or click button “Examples”.

**Control whether pop window Examples when hover button Examples**

**Hover or click button Examples to pop window Examples**

#{DataRowNumber} % 2 == 0    #{DataRowNumber} % 2 == 1    #{DataRowNumber} >= 9

#{TableRowNumber} % 2 == 0    #{TableRowNumber} % 2 == 1    #{TableRowNumber} == 1

#{year} == 0    Math.abs(#{year}) >= 0    #{year} < 0 || #{year\_} > 100    #{year} != 6

'#{year}'.search(/Hello/ig) >= 0    '#{year}'.length > 0    '#{year}'.indexOf('Hello') == 3

'#{year}'.startsWith('Hello')    '#{year}'.endsWith('Hello')    var array = [ 'A', 'B', 'C', 'D' ];  
array.includes('#{year}')

" ==    ==    " !=    !=    ===    !==    true    false    null    undefined    >=

>    <=    <    &&    ||    !

"    var    =    ;    +=    -=    \*=    /=    %=    +    -    \*    /    %    ++

--    ,    ()    {}    []    " "    .    this

".search(/ig/) >= 0    ".length > 0    ".indexOf("") >= 0    ".startsWith("")    ".endsWith("")

".replace(/ig/,"")

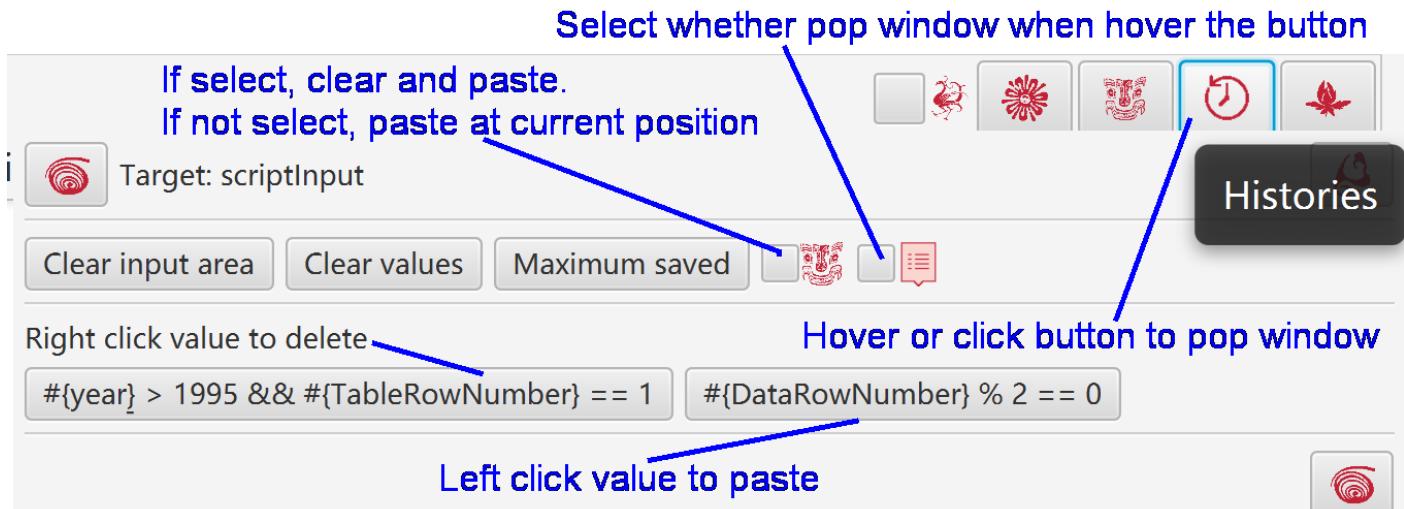
[Learn JavaScript](#)

[JavaScript Tutorial](#)

**Click value button to paste value into target**

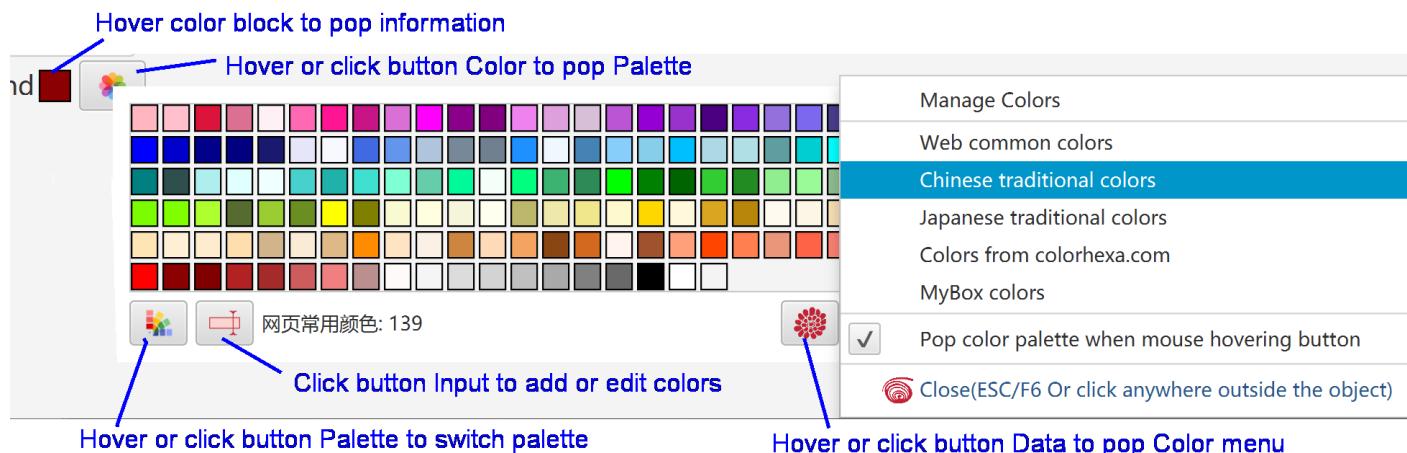
## 6.10 Window “Histories”

Hover or click button “Histories” to pop window “Histories”.



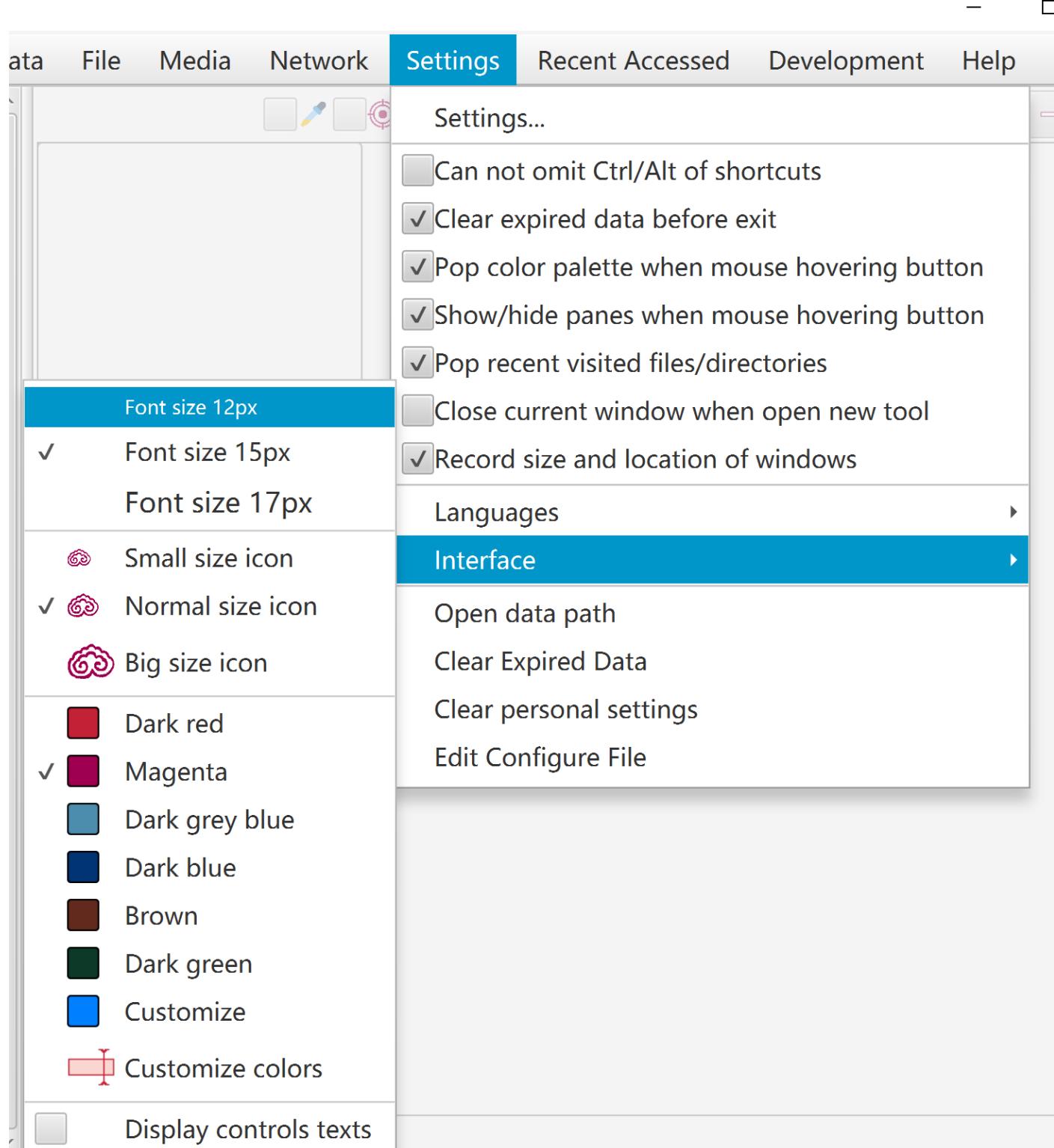
## 6.11 Color Block and Palette

1. Hover “Color Block” to pop color's information.
2. Hover or click button “Palette” to pop window Palette, and select or edit colors.



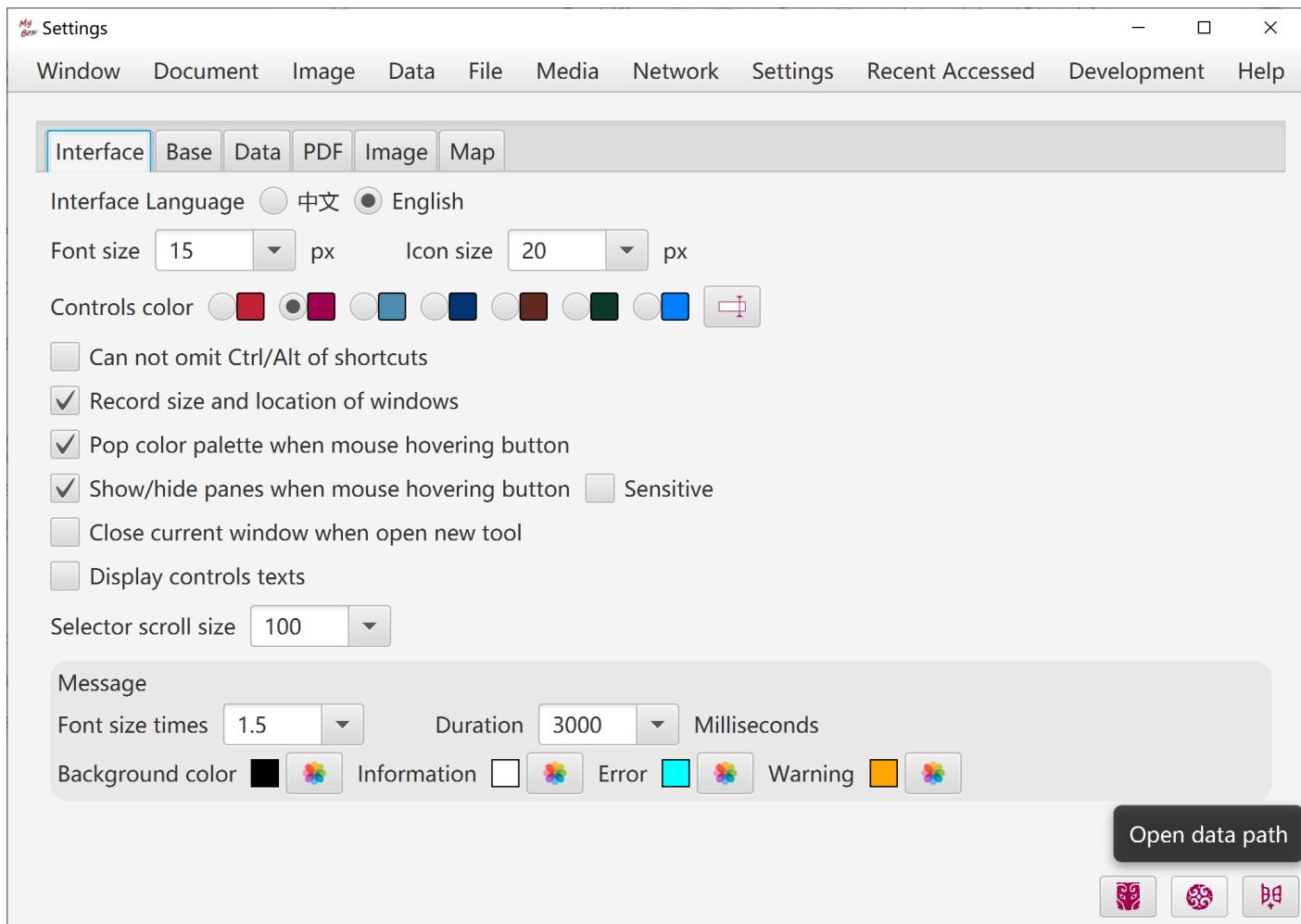
## 7 Settings

Select “Settings...” in main menu to open window Settings.



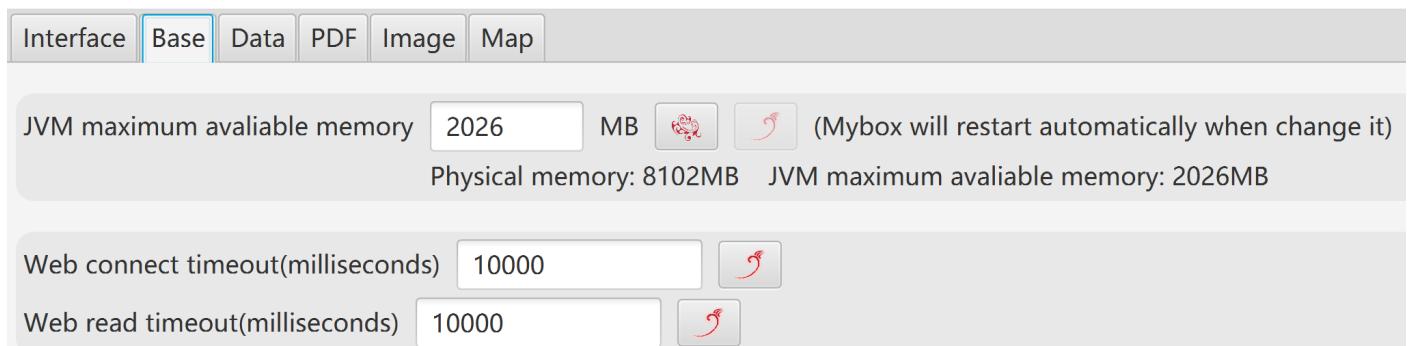
## 7.1 Interface

1. Language, font size, icon size
2. Select hi-dpi icons(100x100) or common icons(40x40).
3. Color of buttons can be customized.
4. Whether restore last size of each scene.
5. Whether open new stage to display scene.
6. Whether show/Hide splitted panes when mouse passing.
7. Whether pop stage "Set Color" when mouse passing.
8. Font size, color, duration of popped messages.



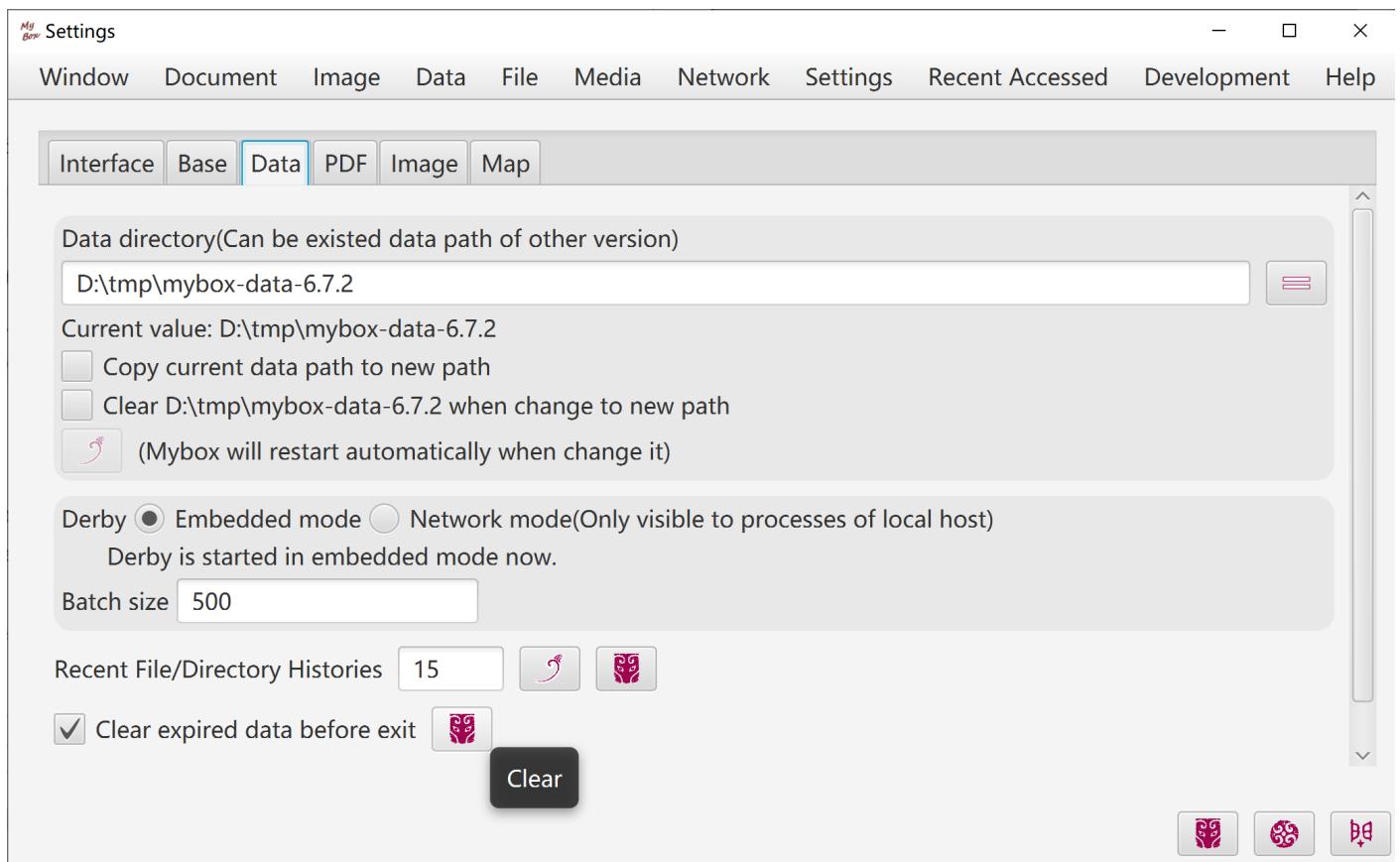
## 7.2 Base

1. Maximum memory usage of JVM
2. Network timeouts



## 7.3 Data

1. Data path
2. Derby driver mode and batch size.
3. Whether pop recent visited files/directories. And the number.
4. Whether close alarm clocks when exit program.



## 7.4 PDF

Maximum main memory of PDF handling.

Maximum main memory for PDF  500M  1G  2G  Unlimit

When limited quota is reached, temporary files will be used as extended memory.  
If not limit main memory usage, "Out of Memory" may happen for large PDF files.

## 7.5 Image

1. Width and color of stroke and anchor. Whether anchors are solid.
2. Color to replace Alpha when Alpha is not supported. (Suggest as White)
3. Wdith of thumbnail
4. Maximum width to display sampled images

Stroke Color  Width

Anchor Color  Width    Solid

Grid lines Color  Width   Interval   Opacity

Color to use if Alpha unsupported   Suggest as white

Thumbnail width

Apply render options when load or modify image

Rendering  Automatic  Quality  Speed

Color rendering  Automatic  Quality  Speed

Pixels interpolation  9 nearest neighbor  4 nearest neighbor  Nearest neighbor

Alpha interpolation  Automatic  Quality  Speed

Shape anti-aliasing  Automatic  On  Off

Text anti-aliasing  Automatic  On  Off  GASP  LCD\_HRGB  LCD\_HBGR  LCD\_VRGB  LCD\_VBGR

Font fractional metrics  Automatic  On  Off

Stroke  Automatic  Normalize  Unmodified

Dithering  Automatic  On  Off

[RenderingHints](#)

## 7.6 Map

### Data keys of map

Interface Base Data PDF Image **Map**

Following are free map keys shared by users of MyBox. You can request and set your private free/commercial map keys.

TianDiTu web key 0ddeb917def62b4691500526cc30a9b1  
<https://console.tianditu.gov.cn/api/key>

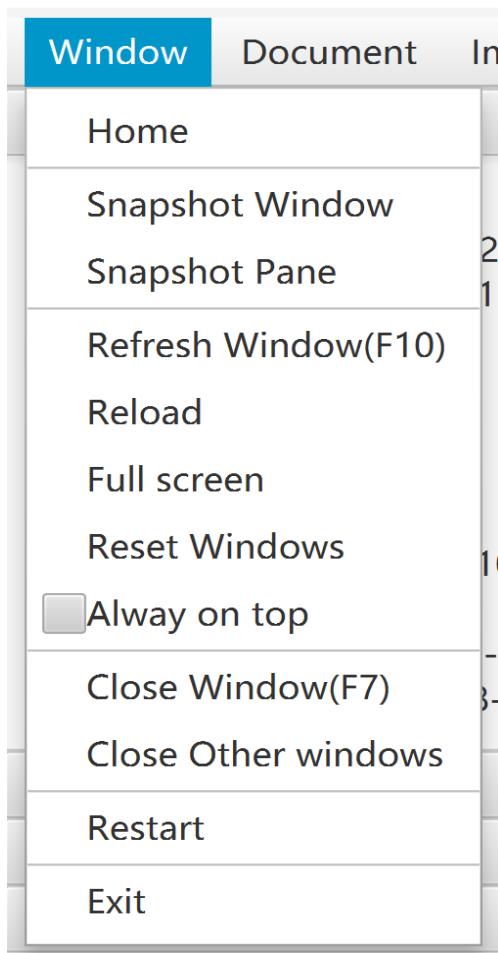
Web key of GaoDe map 06b9e078a51325a843dfefd57ffd876c

Web service key of GaoDe map d7444d9a7fae01fa850236d909ad4450  
<https://lbs.amap.com/dev/index>

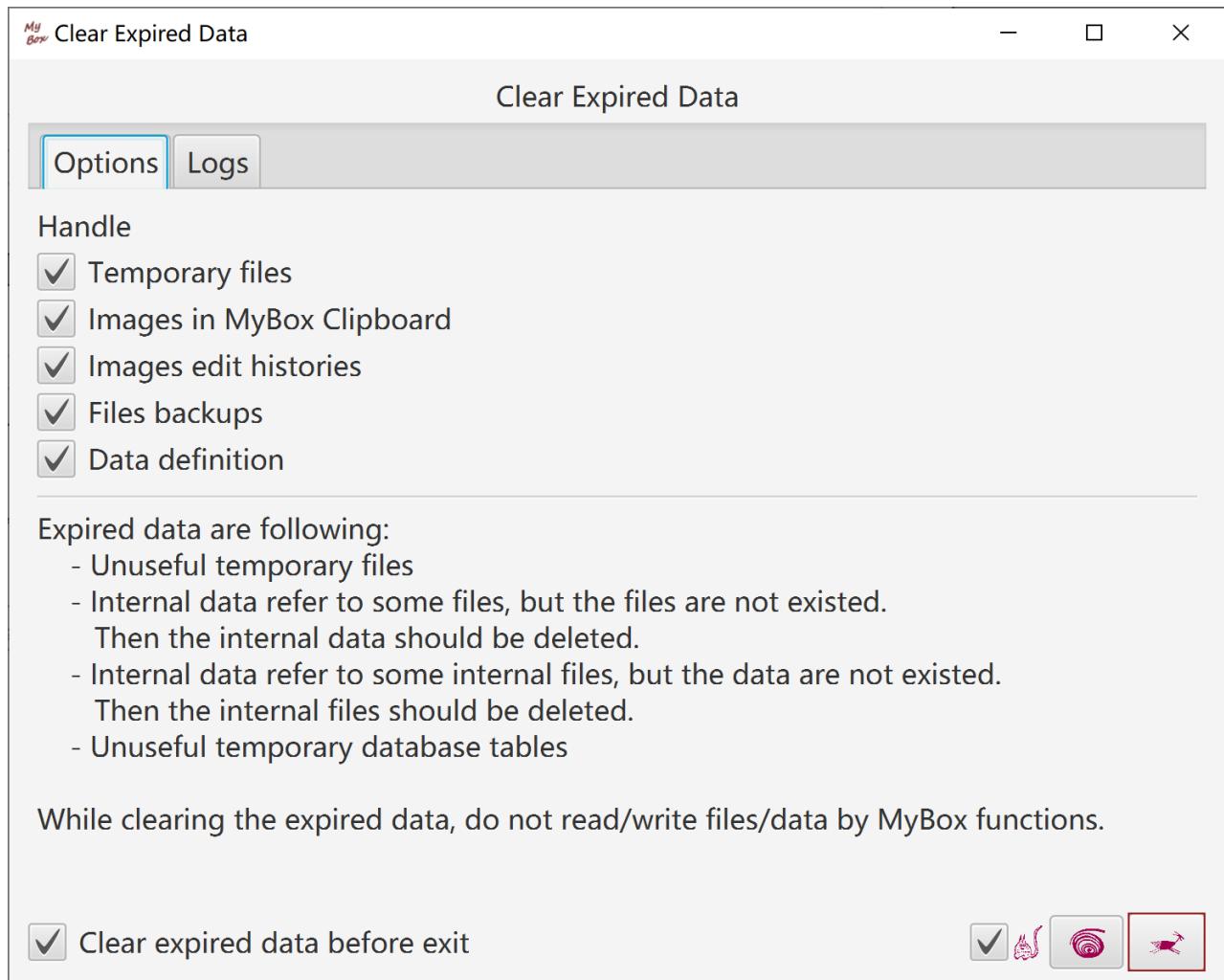
## 8 Window

1. Refresh/Reset/Full-screen/Top windows.
2. Close other windows.
3. Reboot MyBox.
4. Recent visited tools.
5. Snapshot of window/pane.



## 9 Clear expired data

1. Select “Clear Expired Data” in menu “Settings” to open this interface.
2. Select data to be handled.
3. While clearing expired data, do not read/write files/data by MyBox functions.
4. Option to clear expired data automatically before exit.



<End of Document>