



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

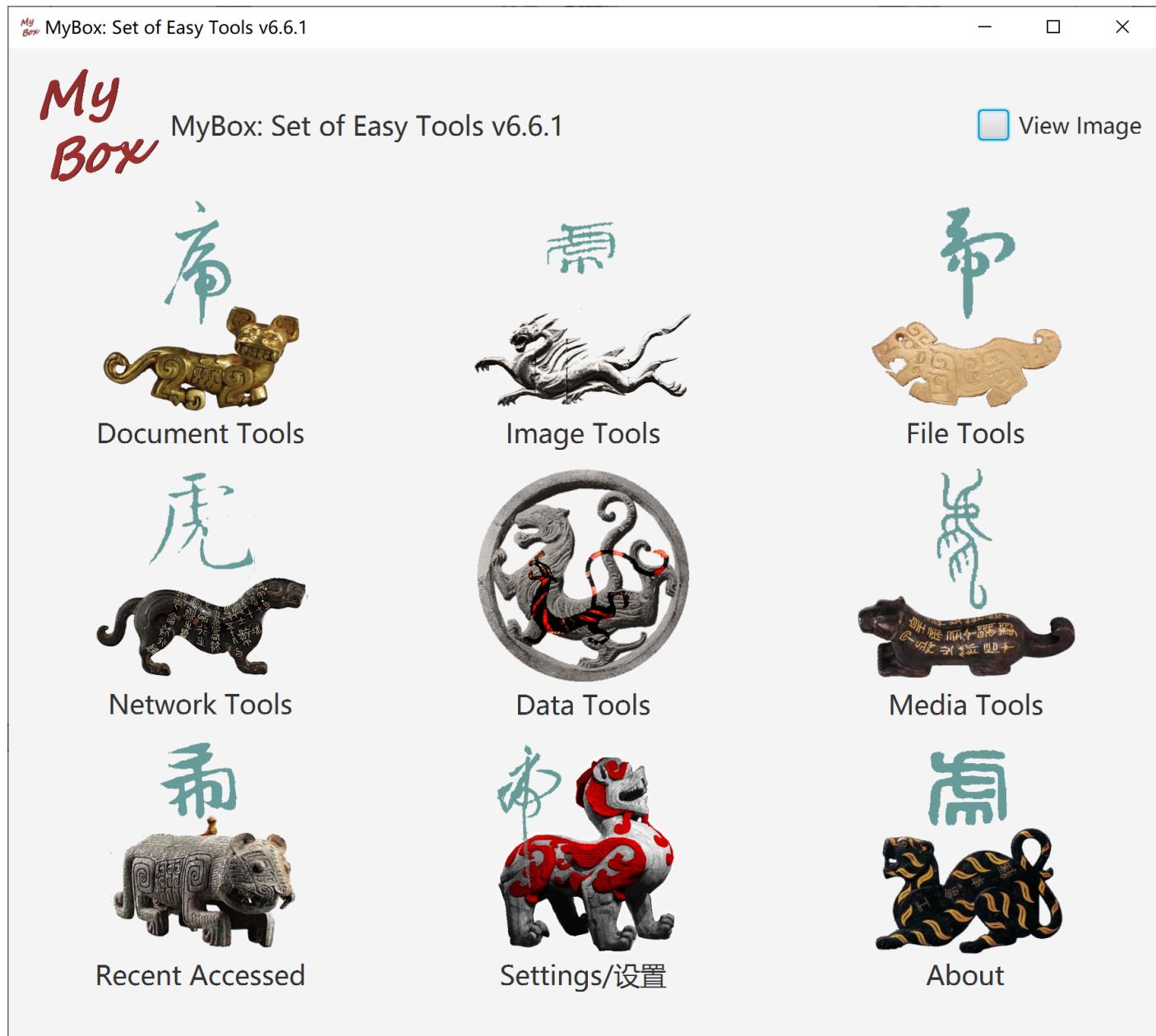
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Version: 6.6.1  
Date: 2022-11-16

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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

2022-11-16 v6.6.1

- Add:
  - New types of data columns: Era, Color, Longitude, Latitude, Enumeration.
  - Formats of data columns. Example:
    - To numbers, format can be: group in thousands, group in ten thousands, scientific notation, and no format.
    - To Datetime/Date/Era, following are supported in formats: MM/dd/yy, yy/MM/dd, milliseconds, time zone, T separator, patch century, etc..
    - To Enumeration, list of values can be defined.
    - This attribute is mainly for display. When data are inputted/edited, formats are not applied automatically and original inputs are kept.
    - In some interfaces, like “Copy” or “Export”, options “Save date/time/era and numbers as columns’ formats” can be checked.
  - How columns handle invalid values, including: skip, count as empty, and count as zero. This attribute is only used for display or calculation. When data are inputted/edited, invalid values are not handled automatically.
  - When edit data, specific controls are shown according to types and formats of columns:
    - To Boolean, checkbox is provided.
    - To Enumeration, list view is provided with selections.
    - To Color, palette is provided.
    - To Longitude and Latitude, map can be popped to locate coordinate.
  - When data contain columns of longitude and latitude, chart “Location Distribution” can be generated.
  - Charts of groups. With grouped data, dynamic charts of XY, Pie, Comparison Bars, Self Comparison Bars, Box Whisker can be generated in sequence of groups.
- Enhance:
  - Group data as following 4 ways:
    - Equal values. Select several columns and put rows into same group when they have same values of these columns.
    - Value range:
      - Select one column and divide data by value ranges of this column. Following 3 selections can be for the split:
        - Size of split(interval of values)
        - Number of split
        - List of “StartValue-EndValue”
      - Type of the selected column is ignored, and its values are parsed as double.
    - Conditions. Define some row filters and data rows are divided in groups by these row filters.
    - Row number. Divide data rows by their row numbers. Following 3 selections can be for the split:
      - Size of split(interval of row numbers)
      - Number of split
      - List of “StartNumber-EndNumber”
  - Assist mode of data editing is changed as CSV, to support values which contain delimiter or line break.
  - When read data in System Clipboard, both CSV parser and Text parser can be used.
  - Row filters can be saved in tree.

- Sort conditions and maximum number of picked data can be set for all types of charts.
- Parse data format with more detailed algorithm.
- Parse numbers with NumberFormat.
- Player:
  - Implemented with ScheduledExecutorService. Support both “deplay” mode and “interval” mode.
  - Snapshots
- More status information are displayed for background tasks.
- Remove functions “Location Data” and “Edpidemic Reports”.  
Their existed data can be found under menu “Data - Database - Database Table” and can be changed and used as common data.
- Solved:
  - Data may be damaged when do “replace all” for long texts/bytes(Sorry).
  - Screen Recorder does not work.
  - Row expressions have no way to describe “value is null”.
  - When value of category is null, charts may pop errors.
  - Comparison bars chart picks wrong values for one column.
  - Sort for current page may cause error.
  - When save new data which have applied styles, errors will pop.
  - When copy nodes in tree, errors may pop.

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

## 1.2 Cross Platforms

MyBox is implemented in pure Java and only based on open sources, and it can run on platforms which support Java 18.

Versions before v5.3 are based on Java 8.

## 1.3 Personal

1. No register/login/DataCenter/Cloud.
2. No network if unnecessary.
3. Not read/write if unnecessary.

## 1.4 Data Compatible

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

## 1.5 Internationalized

1. All codes of MyBox are internationalized. Language can be switched in time.
2. Each language is defined in two resource files, like: "Messages\_NAME.properties" and "TableMessages\_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 and TableMessages\_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	Resource file of data tables
Chinese	Messages_zh_CN.properties	TableMessages_zh_CN.properties
English	Messages_en.properties	TableMessages_en.properties

## 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 main content area shows a list of files and their commit history. A red circle highlights the 'Code' button in the top right of the main content area. To the right, there is an 'About' section with a description of the repository's purpose and a list of supported tools. Another red circle highlights the 'Releases' section, which shows a latest release labeled 'v6.5.8' (18 days ago) and a link to '+ 88 releases'.

### 3 Documents

Name	Version	Time	English	Chinese
Development Logs	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Shortcuts	6.5.6	2022-6-11	<a href="#">html</a>	<a href="#">html</a>
Packing Steps	6.3.3	2020-9-27	<a href="#">html</a>	<a href="#">html</a>
Development Guide	2.1	2020-8-27	<a href="#">PDF</a>	<a href="#">PDF</a>
User Guide - Overview	6.6.1	2022-11-16	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
User Guide - Data Tools	6.6.1	2022-11-16	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
User Guide - Document Tools	6.6	2022-9-28	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
User Guide - Image Tools	6.6	2022-9-28	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
User Guide - File Tools	6.6	2022-9-28	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
User Guide - Network Tools	6.6	2022-9-28	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
User Guide - Media Tools	6.6	2022-9-28	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
User Guide - Development Tools	6.6	2022-9-28	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>
Examples - Notes	6.6.1	2022-11-16	<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 - 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>
About - Color	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 - Media	6.6.1	2022-11-16	<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>
Palette - Common Web Colors	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Palette - Chinese Traditional Colors	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Palette - Japanese Traditional Colors	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Palette - Colors from colorhexa.com	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>
Palette - MyBox Colors	6.6.1	2022-11-16	<a href="#">html</a>	<a href="#">html</a>

## 4 Download and Execution

Packages of each version have been uploaded at [Releases](#) directory now. You can find them by clicking releases tab in main page of this project.

### 4.1 Source Codes

[MyBox-6.6.1-src.zip](#) 55M-

About structure, editing, and building of source codes, please refer to [Developement Guide](#) and [Packing Steps](#)

### 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-6.6.1-win10-x64.zip</a>	260MB-	MyBox.exe
CentOS 7 x64	<a href="#">MyBox-6.6.1-CentOS7-x64.tar.gz</a>	280MB-	bin/MyBox
mac x64	<a href="#">MyBox-6.6.1-mac.dmg</a>	280MB-	MyBox-6.6.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-6.6.1-win-jar.zip</a>	190MB-	Java 18 or higher
linux	<a href="#">MyBox-6.6.1-linux-jar.zip</a>	200MB-	Java 18 or higher
mac	<a href="#">MyBox-6.6.1-mac-jar.zip</a>	200MB-	Java 18 or higher

Run following command to launch this program with Jar package:

```
java -jar MyBox-6.6.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-6.6.jar /tmp/a1.jpg
```

### 4.4 Other addresses to download

Download from cloud storage: [https://pan.baidu.com/s/1fWMRzym\\_jh075OCX0D8y8A#list/path=%2F](https://pan.baidu.com/s/1fWMRzym_jh075OCX0D8y8A#list/path=%2F)  
Download from sourceforge: <https://sourceforge.net/projects/mara-mybox/files/>

## 4.5 Limitation

- Not enough testings are done and MyBox has low reliability. Data damage even happened in some versions.
- New functions are added and codes are improved continually, and MyBox has bad stability. Unexpected function failures happened sometimes.
- MyBox windows may often be blocked when some Input Method is running. Workaround is to disable/uninstall this Input Method.

## 4.6 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.

## 4.7 Configuration

Configuration file is under “User Home”:

<b>Platform</b>	<b>Path of MyBox Configuration File</b>
win	C:\users\UserName\mybox\MyBox_v6.6.ini
linux	/home/UserName/mybox/MyBox_v6.6.ini
mac	/Users/UserName/mybox/MyBox_v6.6.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:

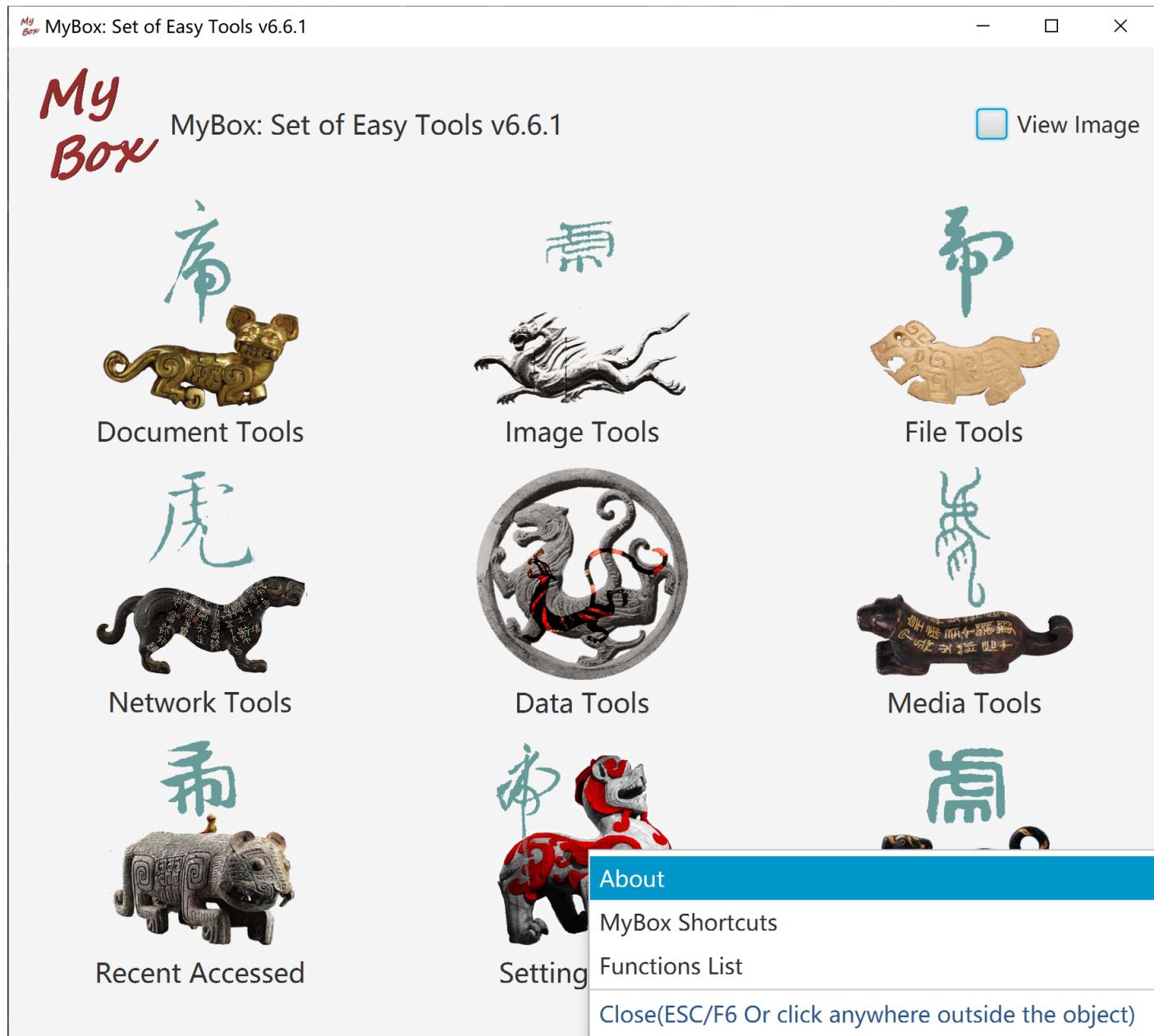
Name	Role	Link
JDK	Java	<a href="http://jdk.java.net/">http://jdk.java.net/</a>
		<a href="https://www.oracle.com/technetwork/java/javase/downloads/index.html">https://www.oracle.com/technetwork/java/javase/downloads/index.html</a>
		<a href="https://docs.oracle.com/en/java/javase/18/docs/api/index.html">https://docs.oracle.com/en/java/javase/18/docs/api/index.html</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/18/">https://openjfx.io/javadoc/18/</a>
NetBeans	IDE	<a href="https://netbeans.org/">https://netbeans.org/</a>
jpackage	pack	<a href="https://docs.oracle.com/en/java/javase/18/docs/specs/man/jpackage.html">https://docs.oracle.com/en/java/javase/18/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>
javazoom	MP3 manufacture	<a href="https://sourceforge.net/projects/javalayer/">https://sourceforge.net/projects/javalayer/</a>
Derby	Database	<a href="http://db.apache.org/derby/">http://db.apache.org/derby/</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>
jaffree	wrap ffmpeg	<a href="https://github.com/kokorin/Jaffree">https://github.com/kokorin/Jaffree</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">https://stackoverflow.com/questions/24694616 (Ogmios)</a>

Name	Role	Link
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>
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>
WeiBo	Materials	<a href="https://weibo.com/2328516855/LhFIHy26O">https://weibo.com/2328516855/LhFIHy26O</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>

## 6 Common Functions in Interfaces

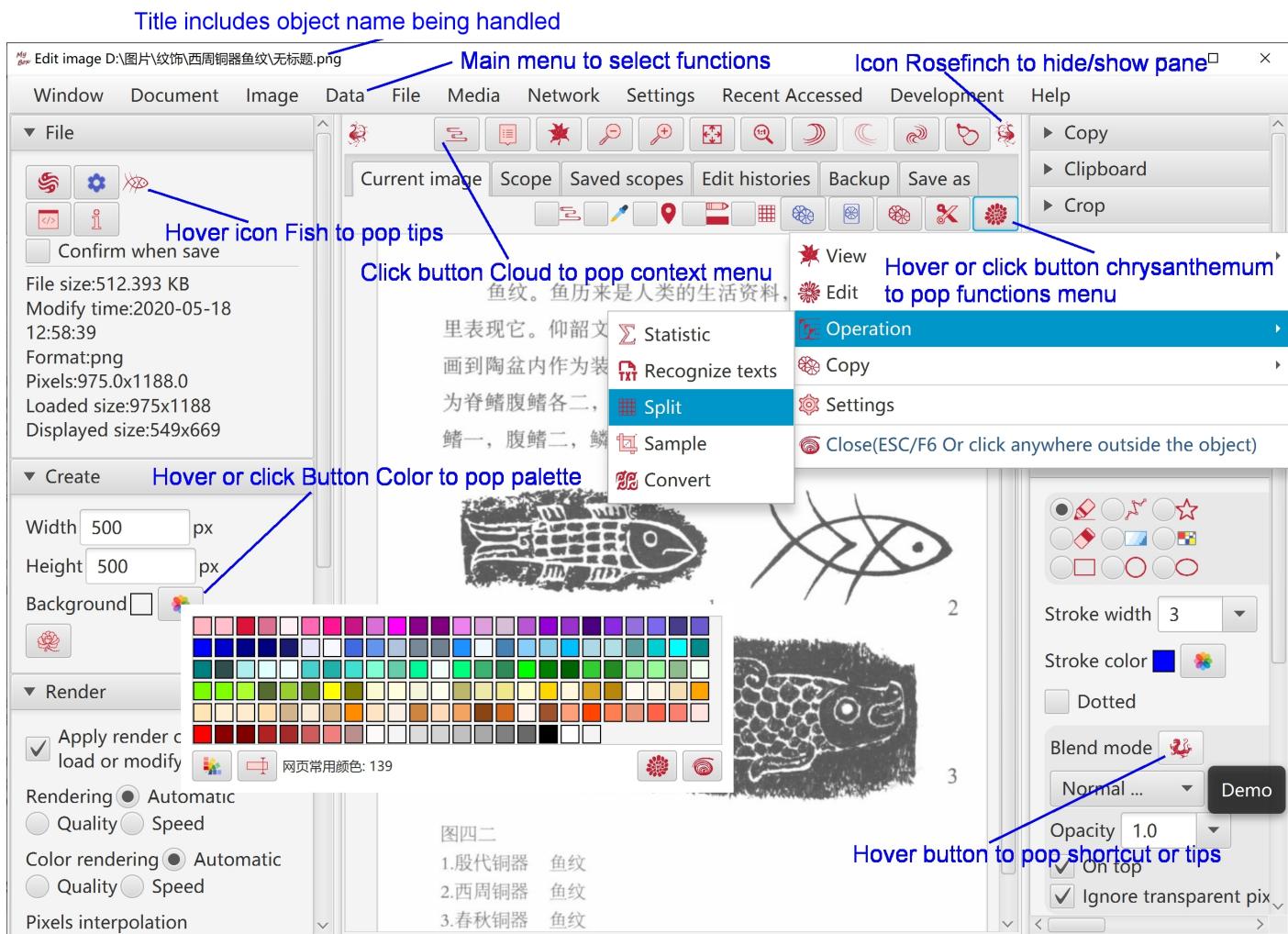
### 6.1 Main Interface

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.

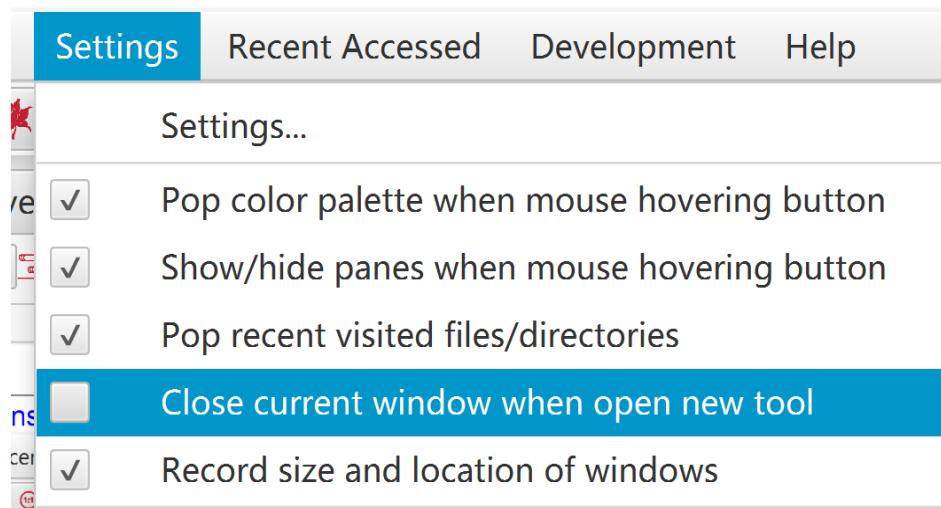


## 6.3 Set Font Size

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”.

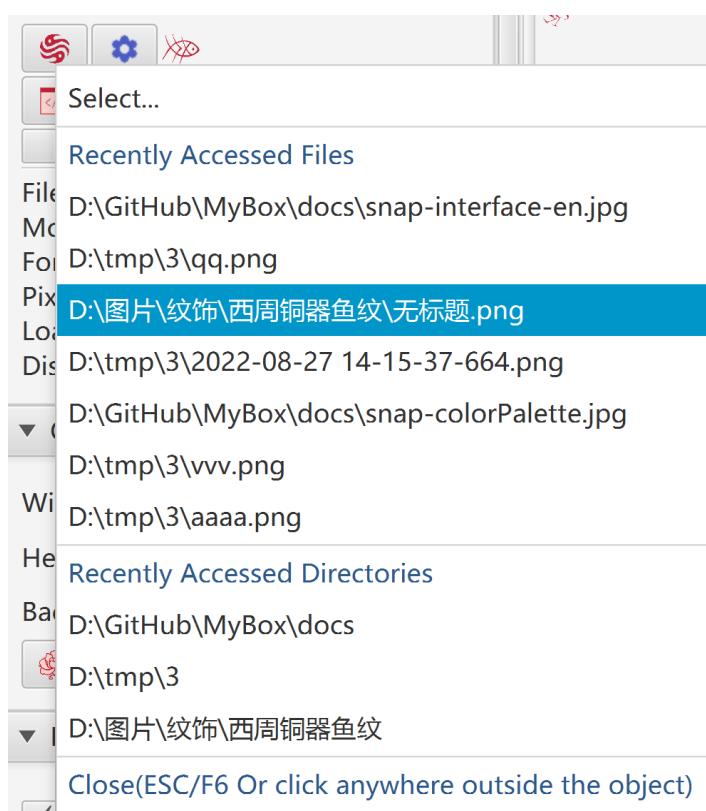


## 6.5 Restore Scene Size

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

Select rows and click button to handle

Table row	<b>id</b>	<b>year_</b>	populationat_year_end_ten_thousand	maleten_thousand	femaleten_thousand	urbanaten_thousand	ruralaten_thousand
<input type="checkbox"/> 1	51	1999	125,786	64,692	61,094		
<input type="checkbox"/> 2	52	2000	126,743	65,437	61,306		
<input type="checkbox"/> 3	53	2001	127,627	65,672	61,955		
<input checked="" type="checkbox"/> 4	54	2002	128453.0	66,115	62,338		
<input type="checkbox"/> 5	55	2003	129,227	66,556	62,671		
<input type="checkbox"/> 6	56	2004	129,988	66,976	63,012		
<input type="checkbox"/> 7	57	2005	130,756	67,375	63,381		
<input type="checkbox"/> 8	58	2006	131,448	67,728	63,720		
<input type="checkbox"/> 9	59	2007	132,129	68,048	64,081		
<input type="checkbox"/> 10	60	2008	132,802	68,357	64,445		
<input type="checkbox"/> 11	61	2009	133,450	68,647	64,803	64,512	68,938
<input type="checkbox"/> 12	62	2010	134,091	68,748	65,343	66,978	67,113
<input type="checkbox"/> 13	63	2011	131,916	69,161	65,755	69,927	61,989

Click header to sort rows.  
Drag header to adjust columns  
Click data cell to edit  
Select rows and click button to handle

Pagination — Selected: 1 Rows: 23/73 Page size 50 ▾ Page 2 ▾ /2 ↺ ↻

Table

✓ Data row  
✓ id  
✓ year\_  
✓ populationat\_year\_end\_ten\_thousand  
✓ maleten\_thousand  
✓ femaleten\_thousand  
✓ urbanaten\_thousand  
✓ ruralaten\_thousand

Hide/show columns

1. To select rows:
    - Press key SHIFT and click rows to select multiple rows of a range.
    - Press key CTRL and click rows to select multiple rows one by one.
    - Click the checkboxes in head of rows.
  2. To edit data:
    - Header texts of editable columns are in blue (Editable primary keys are still in red).
    - Click the editable cell, then its input field will be shown.
    - 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.

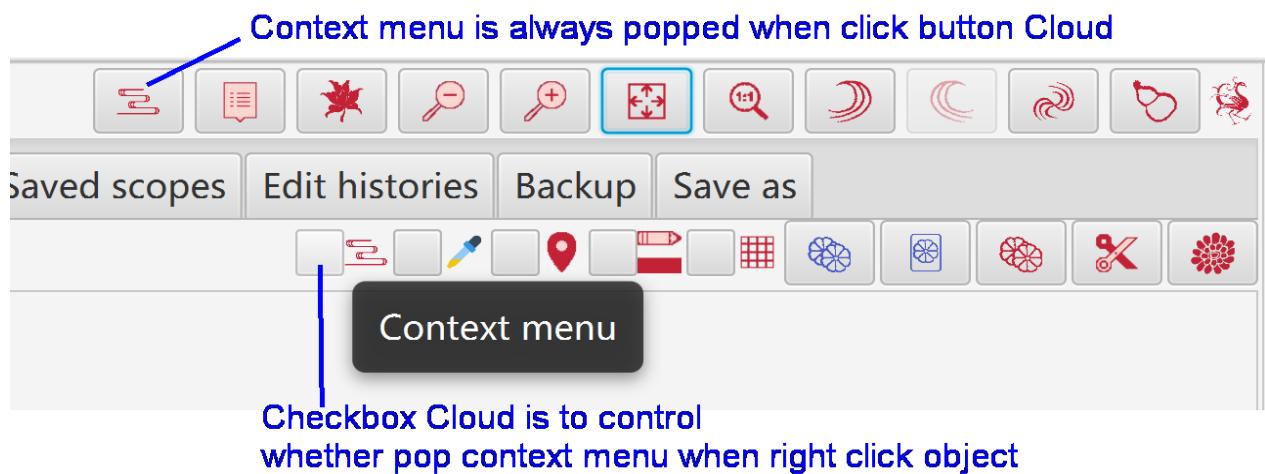
This operation does not affect data.
  4. To adjust order of columns, click and drag column headers.

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**

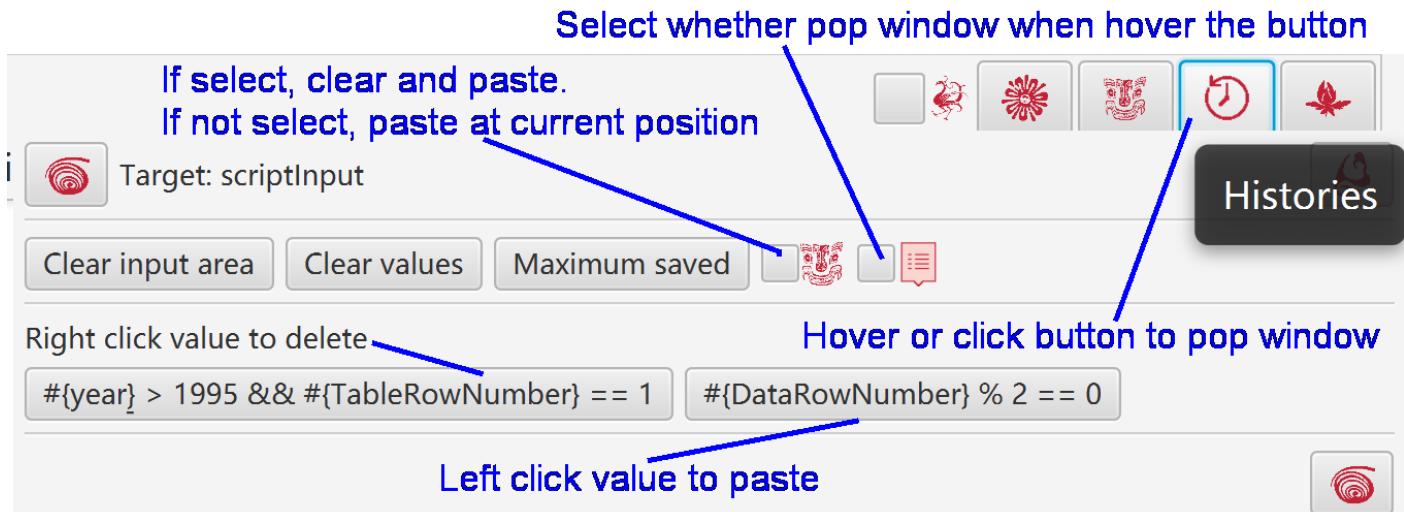
**Hover or click button Examples to pop window Examples**

```
#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**

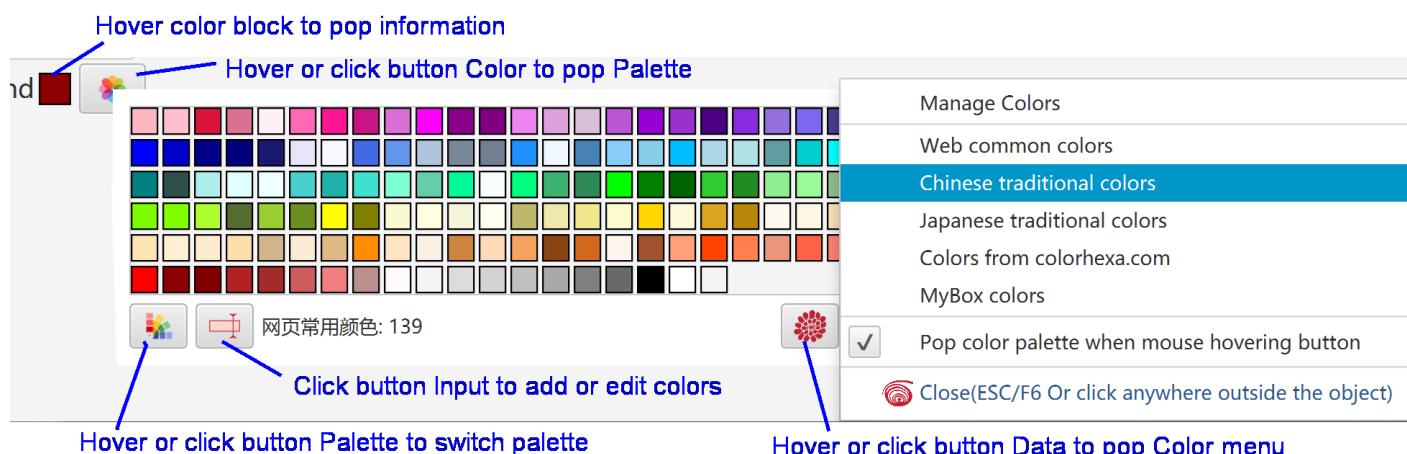
## 6.10 Window “Histories”

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.

The screenshot shows the 'Settings' window with the following interface:

- Top Bar:** Settings, Recent Accessed, Development, Help.
- Main Area:**
  - General:** Pop color palette when mouse hovering button (checked), Show/hide panes when mouse hovering button (checked), Pop recent visited files/directories (checked), Close current window when open new tool (unchecked), Record size and location of windows (checked).
  - Languages:** 中文 (checked), English (unchecked).
  - Font Size:** Font size 12px, Font size 15px, Font size 17px.
  - Icons:** Small size icon (unchecked), Normal size icon (checked), Big size icon (unchecked).
  - Icons Submenu:** Icons (selected), Open data path, Edit Configure File, Clear personal settings.
- Right Panel:** Columns, Attributes, View, Edit buttons. A color palette dropdown is open, showing the following colors:
  - Dark red (checked)
  - Dark pink
  - Dark grey blue
  - Dark blue
  - Orange (selected)
  - Dark green
  - Display controls texts (unchecked)
  - High DPI icons (checked)

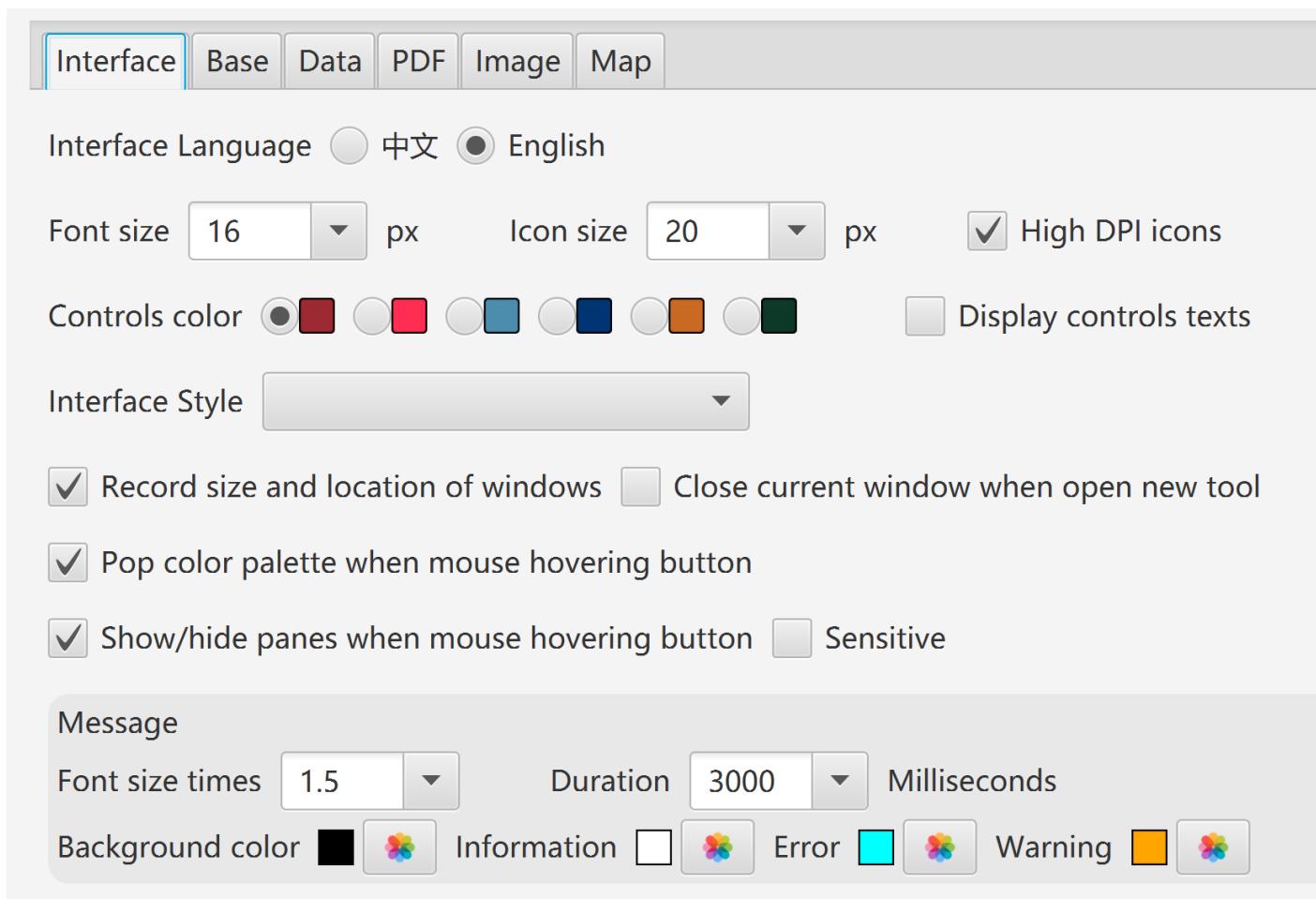
## 7.1 Interface

- Language, font size, icon size
- Control color, whether display control text, interface style
- Select hi-dpi icons(100x100) or common icons(40x40).

When screen resolution is not high than 120dpi, suggest to use common icons.

Hi-dpi icons may look blurred on low-resolution screen.

- Whether restore last size of each scene.
- Whether open new stage to display scene.
- Whether show/Hide splitted panes when mouse passing.
- Whether pop stage "Set Color" when mouse passing.
- Font size, color, duration of popped messages.



## 7.2 Base

1. Maximum memory usage of JVM
2. Network timeouts

Interface **Base** Data PDF Image Map

JVM maximum available memory  MB   (Mybox will restart automatically when change it)

Physical memory: 8102MB JVM maximum available memory: 2026MB

Web connect timeout(milliseconds)  

Web read timeout(milliseconds)  

## 7.3 Data

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

Interface Base **Data** PDF Image Map

Data directory(Can be existed data path of other version)  
 

Current value: d:\tmp\mybox-data-6.5.9  
 Clear d:\tmp\mybox-data-6.5.9 when change to new path  
 (Mybox will restart automatically when change it)

Derby  Embedded mode  Network mode(only local allowed)  
 Derby is started in embedded mode now.

Recent File/Directory Histories    

Stop alarm clocks when close window.

## 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 2

Anchor Color Width 10 Solid

Grid lines Color Width 1 Interval Auto Opacity 0.1

Color to use if Alpha unsupported  Suggest as white

Thumbnail width 100

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>

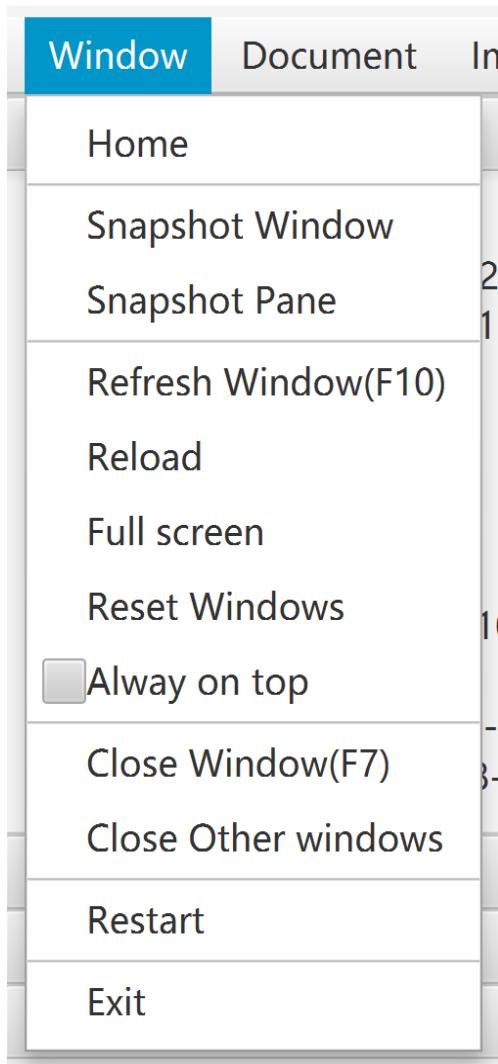
Web key of GaoDe map 06b9e078a51325a843dfefd57ffd876c

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 Shortcuts

Controls in interfaces, like buttons, checkboxes, images, may have their shortcuts:

- When focus is in "Text Input" control, following keys work for this control:

Delete/Home/End/PageUp/PageDown/Enter/Ctrl-c/v/z/y/x

Or else shortcuts work for the interface.

- When focus is not in "Text Input" control, Ctrl/Alt of combination keys can be omitted.

Example, if an image is currently focused, press "c" to copy and press "2" to set as pane size.

- Move mouse upon control, its tooltip(if has) including shortcut may be popped.

Function key	Action	Possible alternative
F1	Start / OK / Synchronize / Set / Query	CTRL+e / ALT+e, CTRL+q / ALT+q
F2	Save	CTRL+s / ALT+s
F3	Recover / Export	CTRL+r / ALT+r, CTRL+e / ALT+e
F4	Show/Hide left pane	
F5	Show/Hide right pane	
F6	Close Popup	
F7	Close Stage	
F8	Refresh Stage	
F10	Synchronize	
F11	Save as	CTRL+b / ALT+b
F12	Menu	
DELETE	Delete	CTRL+d / ALT+d
PAGE_UP	Previous	ALT+PAGE_UP
PAGE_DOWN	Next	ALT+PAGE_DOWN
HOME	First	ALT+HOME
END	Last	ALT+END
ESCAPE	Cancel / Withdraw	CTRL+w / ALT+w
CTRL+e	Start /OK / Set / Export	F1 / ALT+e
CTRL+c	Copy	ALT+c
CTRL+v	Paste	ALT+v
CTRL+z	Undo	ALT+z
CTRL+y	Redo	ALT+y
CTRL+d	Delete	DELETE / ALT+d
CTRL+x	Crop	ALT+x
CTRL+s	Save	F2 / ALT+s
CTRL+b	Save as	F11 / ALT+b

<b>Function key</b>	<b>Action</b>	<b>Possible alternative</b>
CTRL+f	Find	ALT+f
CTRL+h	Replace / Copy html	ALT+h
CTRL+r	Recover / Clear	ALT+r
CTRL+n	Create	
CTRL+a	Select all	ALT+a
CTRL+o	Select none	ALT+o
CTRL+u	Select	ALT+u
CTRL+g	Clear	ALT+g
CTRL+w	Cancel / Withdraw / Replace all	ESCAPE
CTRL+p	Pop	ALT+p
CTRL+q	Query	ALT+q
CTRL+k	Pick color	ALT+k
CTRL+t	Select area / Copy text	ALT+t
CTRL+m	MyBox Clipboard	ALT+m
CTRL+j	System Clipboard	ALT+j
CTRL+1	Original size / Previous	
CTRL+2	Pane size / Next	
CTRL+3	Zoom in	
CTRL+4	Zoom out	
CTRL+-	Decrease font size	
CTRL+=	Increase font size	
ALT+1	Set / Previous	F1
ALT+2	Increase / Next	
ALT+3	Decrease	
ALT+4	Filter	
ALT+5	Invert	
ALT+PAGE_UP	Previous	PAGE_UP
ALT+PAGE_DOWN	Next	PAGE_DOWN
ALT+HOME	First	HOME
ALT+END	Last	END
s / S	Play / Pause	
q / Q	Stop	
m / M	Mute / Sound	
f / F	Full screen	

&lt;End of Document&gt;