



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

Author: Mara

Version: 6.7.1

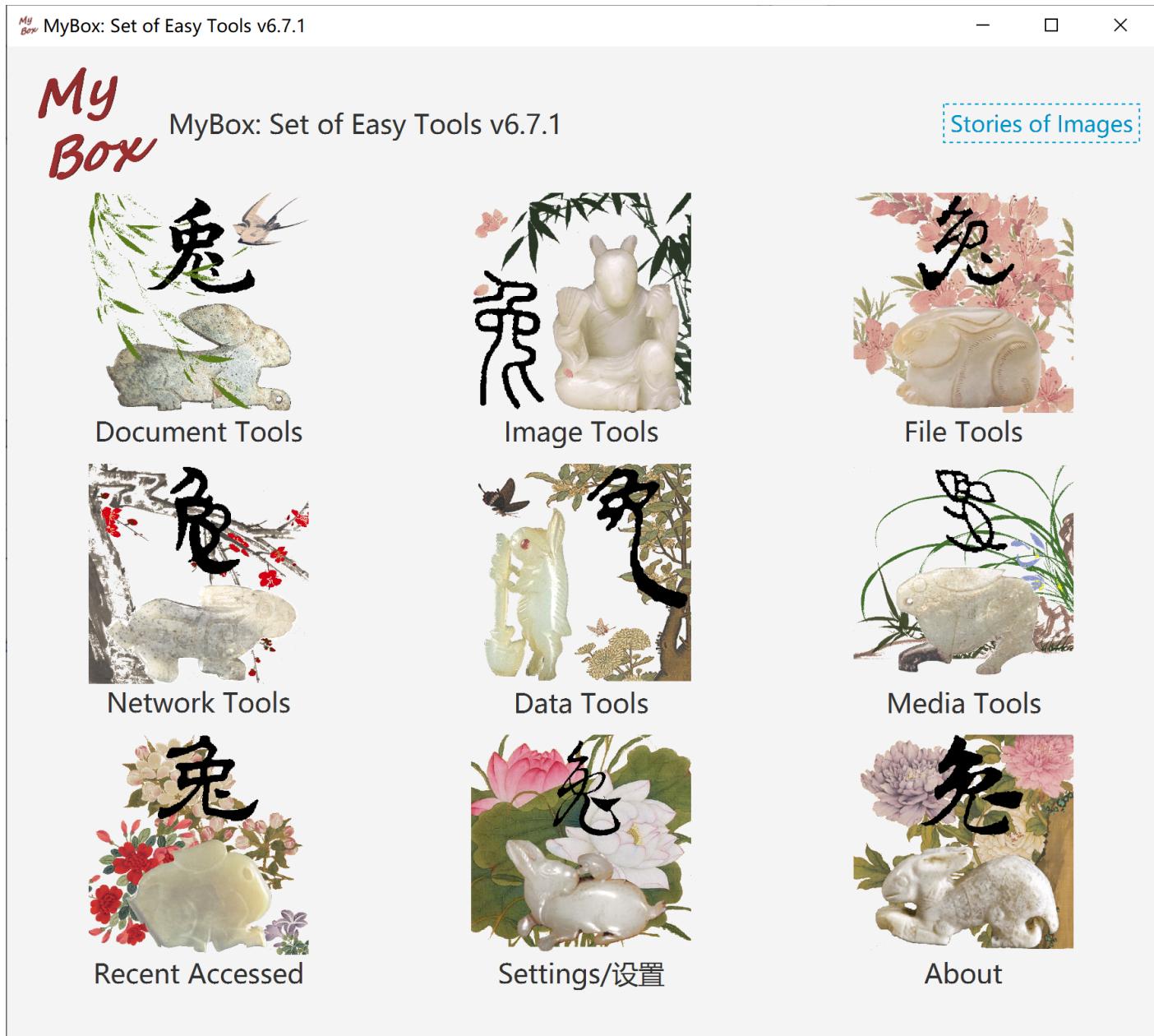
Date: 2023-3-13

## Contents

1	Introduction.....	3
1.1	Latest Versions.....	3
1.2	What's New.....	4
1.3	Cross Platforms .....	4
1.4	Internationalized .....	4
1.5	Personal.....	5
1.6	Friendly.....	5
1.7	Data Compatible.....	5
1.8	Embedded Database System.....	5
1.9	Assit Coding.....	6
2	Resources Addresses.....	7
3	Documents.....	8
4	Download and Execution.....	10
4.1	Source Codes.....	10
4.2	Self-contain packages.....	10
4.3	Jar.....	10
4.4	Limitation.....	10
4.5	Migration.....	11
4.6	Configuration .....	11
5	Implementation.....	12
6	Common Functions in Interfaces.....	14
6.1	Main Interface.....	14
6.2	Interface Layout.....	15
6.3	Set Font Size.....	15
6.4	Open New Stage.....	16
6.5	Restore Scene Size.....	16
6.6	Recent Visited Files/Directories.....	16
6.7	Data Table.....	17
6.8	Context Menu.....	18
6.9	Window “Examples”.....	19
6.10	Window “Histories”.....	20
6.11	Color Block and Palette.....	20
7	Settings.....	21
7.1	Interface.....	22
7.2	Base.....	23
7.3	Data.....	23
7.4	PDF.....	24
7.5	Image.....	24
7.6	Map.....	25
8	Window.....	26

# 1 Introduction

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



## 1.1 Latest Versions

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

The latest versions can be downloaded in following addresses:

address	downloads	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>	

## 1.2 What's New

2023-3-13 v6.7.1

- Added:
  - Edit mode of html: DOM.
  - Manufacture image: blend colors against selected scope.
  - Set http-equiv in batch.
  - Can customized colors of buttons.
- Improved:
  - Manufacture image: select whether replace hue/saturation/brightness when replace colors.
  - Can set scroll size for selectors.
  - Link menus work before html page is loaded completely.
  - Parse html with jsoup.
  - Option about whether pop menu/window when hover over buttons.
  - Links in ReadMe refer to latest versions.
  - Set JAVA\_HOME in packing scripts.
- Removed:
  - Not support setting interface styles any more.
  - Remove unuseful sliders in some interfaces.
  - Names of packages do not contain version number any more.
- Both Java and JavaFx are upgraded to v19.
- Solved problems:
  - All file backups may be cleared when add file backup.
  - Fail to load map when image file of points is not existed.
  - Fail to add address as favorite.
  - Visit histories of paths do not work in some interfaces.
  - Handle location incorrectly when paste images in batch.
  - Shorcuts dot not work when edit colors of image.
  - Edit histories are not saved for Javascript.

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

## 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 19.

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 langauge is defined in one resource files, like: "Messages\_NAME.properties".
3. Support adding new languages online. Table is provided with English as comparison. New langauges 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, tranposing, statistic, and grouping, MyBox will create temporary database tables, and clear them in time.

## 1.9 Assit Coding

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>

文件(F) 编辑(E) 查看(V) 历史(S) 书签(B) 工具(I) 帮助(H)

https://github.com/Mararsh/MyBox

Mararsh / MyBox Public

Code Issues 41 Pull requests Discussions Actions Projects Wiki Security Insights Settings

master 1 branch 90 tags

Mararsh a6.5.9

v6.5.9 5 hours ago 573 commits

alpha/MyBox v6.5.9 5 hours ago

docs v6.5.8 18 days ago

en v6.5.8 18 days ago

released/MyBox v6.5.8 18 days ago

.gitignore v6.5.6 3 months ago

LICENSE Initial commit 4 years ago

README.md v6.5.8 18 days ago

README.md

ReadMe in English

https://github.com/Mararsh/MyBox/releases

About

Easy tools of document, image, file, network, location, color, and media.

html markdown pdf image ocr  
csv sql database excel convert  
location javafx media bytes ppt  
jshell matrix

Readme Apache-2.0 license 79 stars 4 watching 17 forks

Releases 89

v6.5.8 Latest 18 days ago + 88 releases

### 3 Documents

Name	Version	Time	English	Chinese
Development Logs	6.7.1	2023-3-13	<a href="#">html</a>	<a href="#">html</a>
Shortcuts	6.7.1	2023-3-13	<a href="#">html</a>	<a href="#">html</a>
Functions list	6.7.1	2023-3-13	<a href="#">html</a>	<a href="#">html</a>
Packing Steps	6.7.1	2023-3-13	<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	6.7.1	2023-3-13	<a href="#">html</a> <a href="#">PDF odt</a>	<a href="#">html</a> <a href="#">PDF odt</a>
User Guide - Data 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 - 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	6.7.1	2023-3-13	<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	6.7.1	2023-3-13	<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>
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	6.7.1	2023-3-13	<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 - data grouping	6.7.1	2023-3-13	<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>
About - Items in one sentence about java	6.7.1	2023-3-13	<a href="#">html</a>	<a href="#">html</a>
About - Items in one sentence about javafx	6.7.1	2023-3-13	<a href="#">html</a>	<a href="#">html</a>
Palette - Art hues wheel(RYB) - 24 colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Common Web Colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Chinese Traditional Colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Japanese Traditional Colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Colors from colorhexa.com	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>

## MyBox User Guide – Overview v6.7.1

Name	Version	Time	English	Chinese
Palette - Art hues wheel(RYB) - 12 colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Art hues wheel(RYB) - 360 colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Optical hues wheel(RGB) - 12 colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Optical hues wheel(RGB) - 24 colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Optical hues wheel(RGB) - 260 colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Art paints	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - MyBox Colors	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Palette - Gray scale	6.7.1	2023-3-13	<a href="#">rgba all</a>	<a href="#">rgba all</a>
Stories of Images	6.7.1	2023-3-13	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>	<a href="#">html</a> <a href="#">PDF</a> <a href="#">odt</a>

## 4 Download and Execution

Packages of each version have been uploaded at [Releases](#) directory now.

### 4.1 Source Codes

[MyBox-src.zip](#) 65MB-  
[Developement Guide](#) [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-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 19 or higher
linux	<a href="#">MyBox-linux.jar.gz</a>	200MB-	Java 19 or higher
mac	<a href="#">MyBox-mac.jar.gz</a>	200MB-	Java 19 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 Limitation

- Without enough testings, MyBox has low reliability. Data damage even happened in some versions.
- New functions being added and codes being improved continually, 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.

## 4.5 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”:

<b>Platform</b>	<b>Path of MyBox Configuration File</b>
win	C:\users\UserName\mybox\MyBox_v6.7.1.ini
linux	/home/UserName/mybox/MyBox_v6.7.1.ini
mac	/Users/UserName/mybox/MyBox_v6.7.1.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:

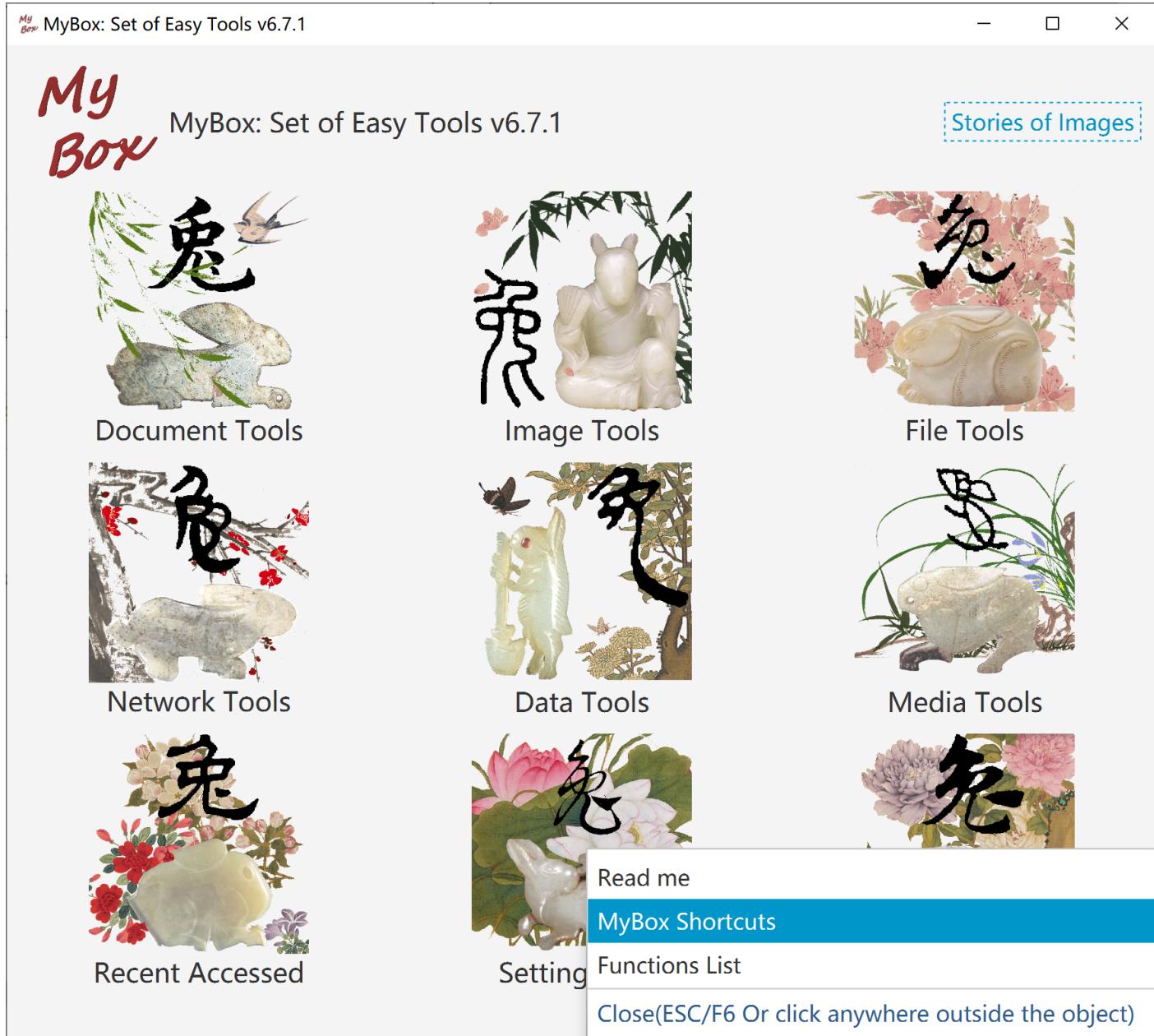
Name	Role	Link
JDK	Java	<a href="http://jdk.java.net/">http://jdk.java.net/</a>
		<a href="https://www.oracle.com/technetwork/java/javase/downloads/index.html">https://www.oracle.com/technetwork/java/javase/downloads/index.html</a>
		<a href="https://docs.oracle.com/en/java/javase/18/docs/api/index.html">https://docs.oracle.com/en/java/javase/18/docs/api/index.html</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>
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/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>
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>

## 6 Common Functions in Interfaces

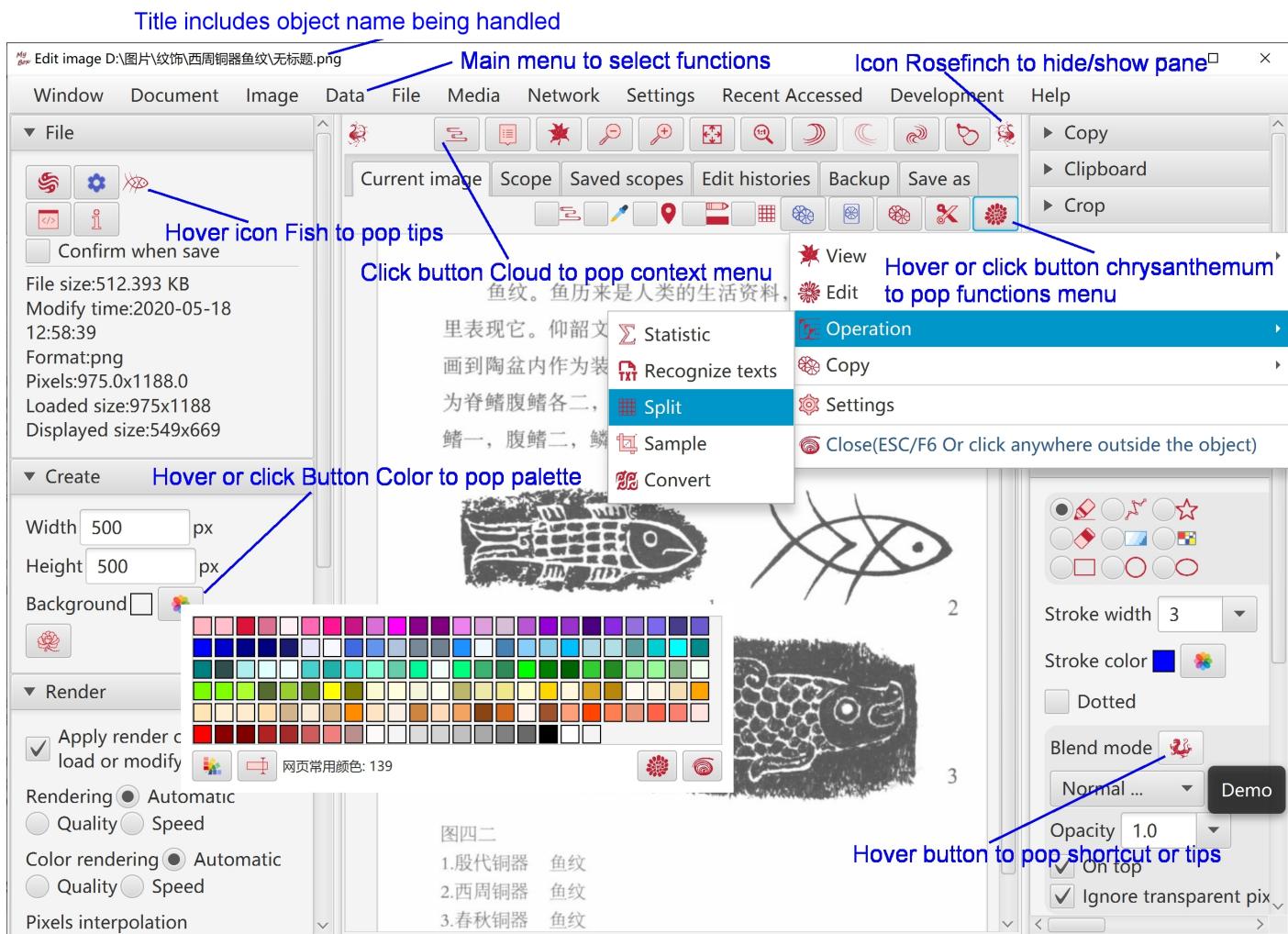
### 6.1 Main Interface

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.

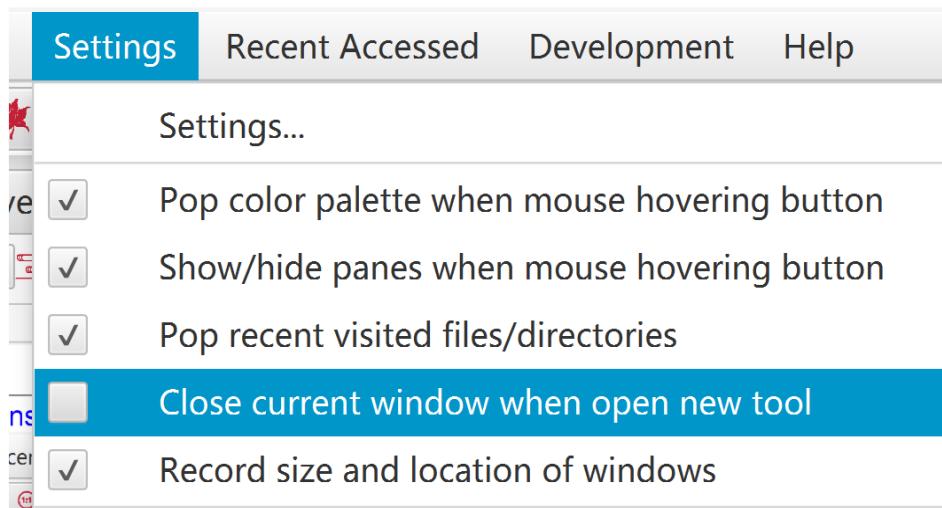


## 6.3 Set Font Size

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”.

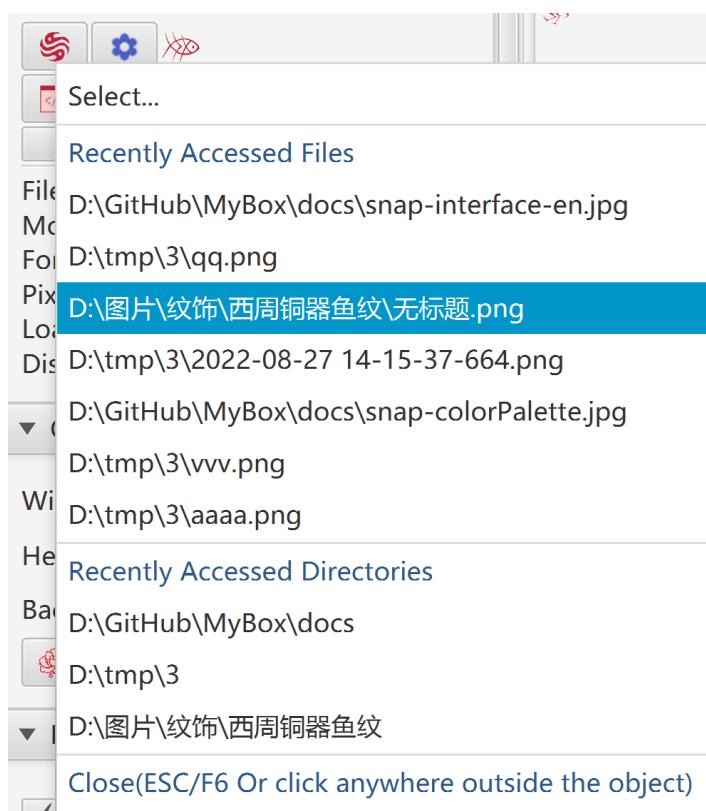


## 6.5 Restore Scene Size

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 a data table with the following columns: Table row, id, year\_, populationat\_year\_end\_ten\_thousand\_, male\_ten\_thousand\_, female\_ten\_thousand\_, urban\_ten\_thousand\_, and rural\_ten\_thousand\_. The table contains 13 rows of data from 1999 to 2011. A context menu is open over the fourth row, showing options for selecting rows, hiding columns, and other table operations. Annotations highlight specific features: 'Select rows and click button to handle' points to the selection icon; 'Click header to sort rows.' points to the sort icons; 'Drag header to adjust columns' points to the column header drag handles; 'Click data cell to edit' points to the cell containing '128453.0'; and 'Hide/show columns' points to the column visibility icon.

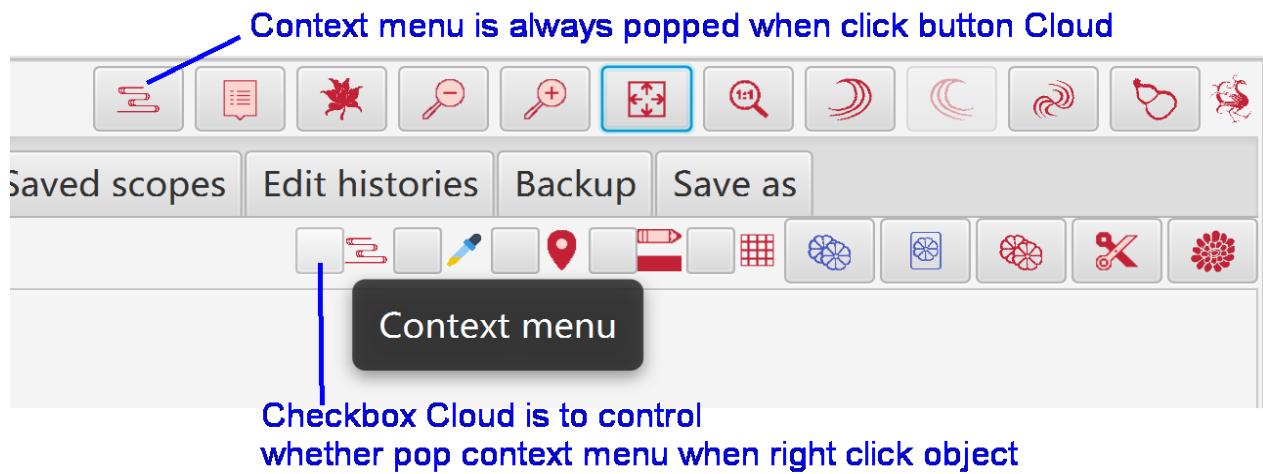
Table row	<b>id</b>	<b>year_</b>	populationat_year_end_ten_thousand_	male_ten_thousand_	female_ten_thousand_	urban_ten_thousand_	rural_ten_thousand_
<input type="checkbox"/> 1	51	1999	125,786	64,692	61,094		
<input type="checkbox"/> 2	52	2000	126,743	65,437	61,306		
<input type="checkbox"/> 3	53	2001	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	134,916	69,161	65,755	69,927	64,989

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

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-increased 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**

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

JavaScript code snippets and operators displayed in the window:

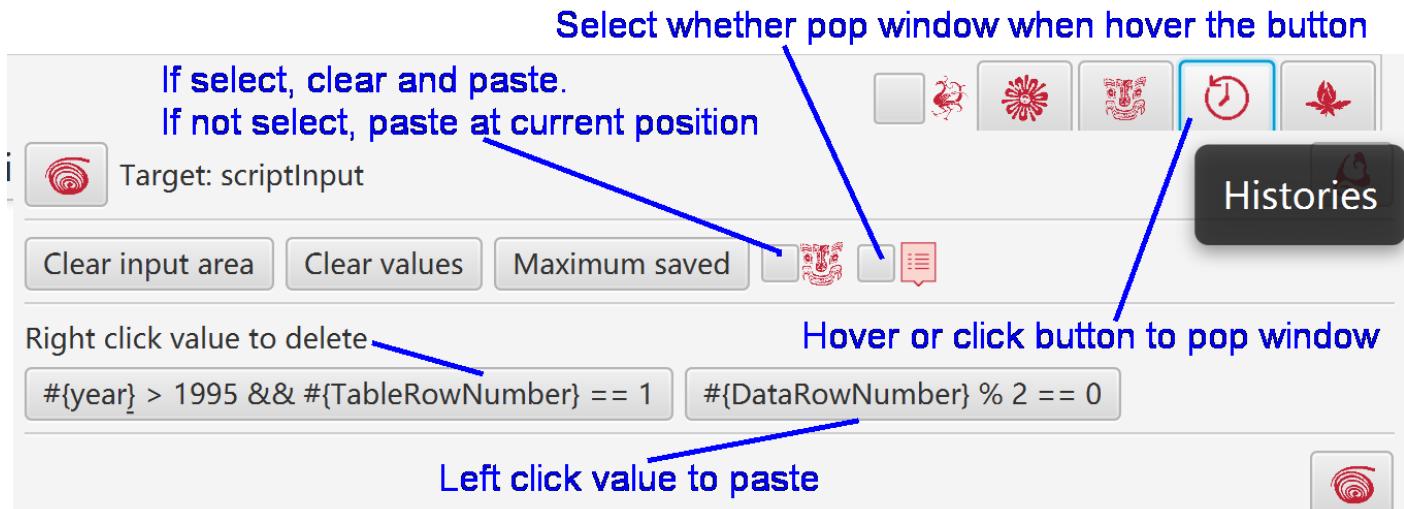
- #DataRowNumber % 2 == 0
- #DataRowNumber % 2 == 1
- #DataRowNumber >= 9
- #TableRowNumber % 2 == 0
- #TableRowNumber % 2 == 1
- #TableRowNumber == 1
- #year == 0
- Math.abs(#year) >= 0
- #year < 0 || #year\_ > 100
- #year != 6
- '#year'.search(/Hello/ig) >= 0
- '#year'.length > 0
- '#year'.indexOf('Hello') == 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](#)

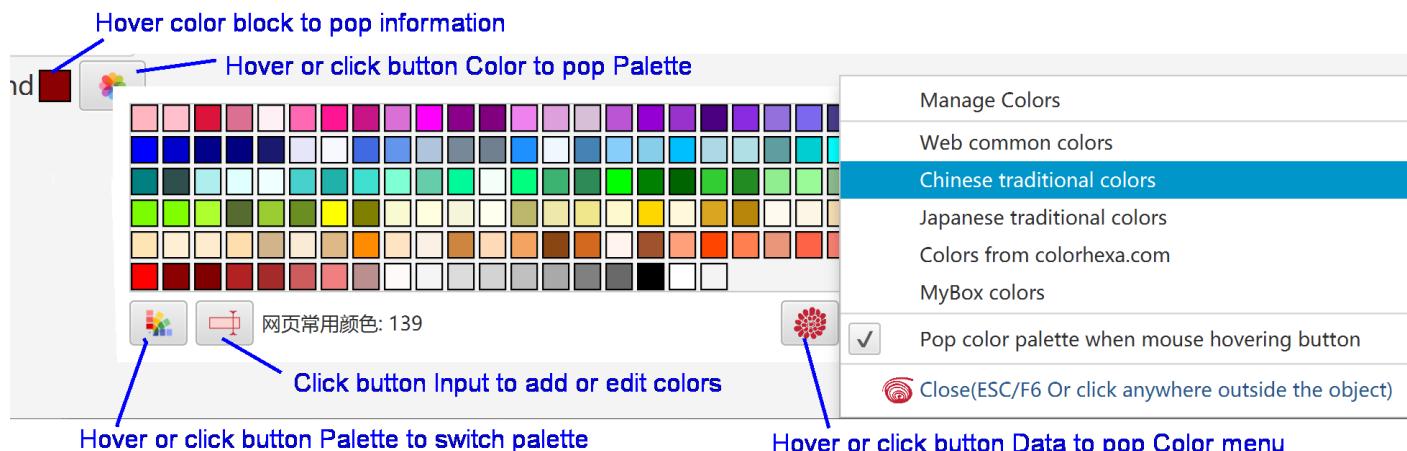
## 6.10 Window “Histories”

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:** Contains tabs for 'Settings' (selected), 'Recent Accessed', 'Development', and 'Help'.
- Main Area:**
  - General:** Includes checkboxes for 'Pop color palette when mouse hovering button', 'Show/hide panes when mouse hovering button', 'Pop recent visited files/directories', 'Close current window when open new tool', and 'Record size and location of windows'. The last two are checked.
  - Languages:** Shows '中文' (Chinese) and 'English' with 'English' checked.
  - Font Size:** Offers 'Font size 12px', 'Font size 15px', and 'Font size 17px'.
  - Icons:** Offers 'Small size icon', 'Normal size icon' (checked), and 'Big size icon'.
  - Icons Submenu:** A dropdown menu titled 'Icons' containing 'Open data path', 'Edit Configure File', and 'Clear personal settings'.
- Right Panel:** Shows a color palette with 10 items: Dark red, Dark pink, Dark grey blue, Dark blue, Orange (selected), Dark green, Display controls texts, and High DPI icons. It also includes buttons for 'Columns', 'Attributes', 'View', and 'Edit'.

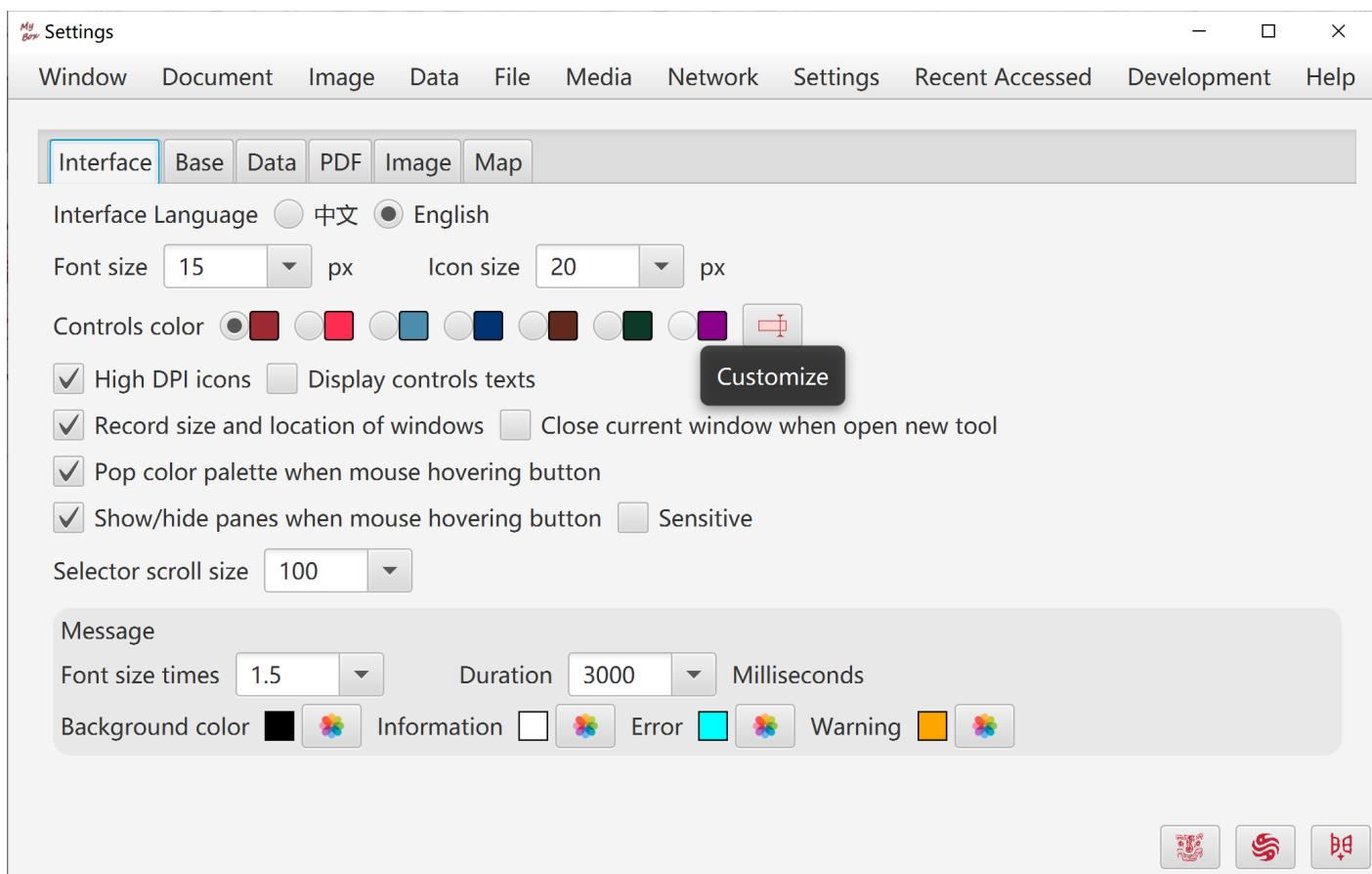
## 7.1 Interface

1. Language, font size, icon size
2. Select hi-dpi icons(100x100) or common icons(40x40).

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

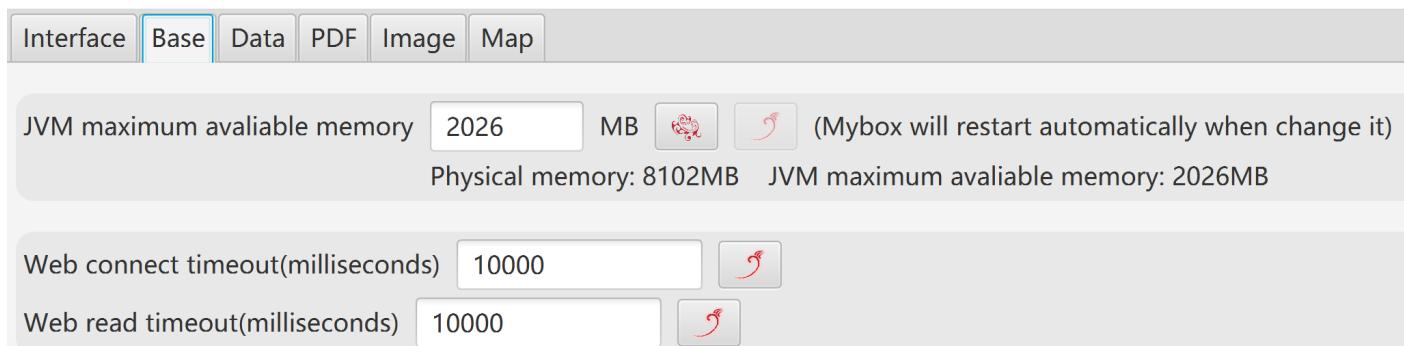
Hi-dpi icons may look blurred on low-resolution screen.

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.



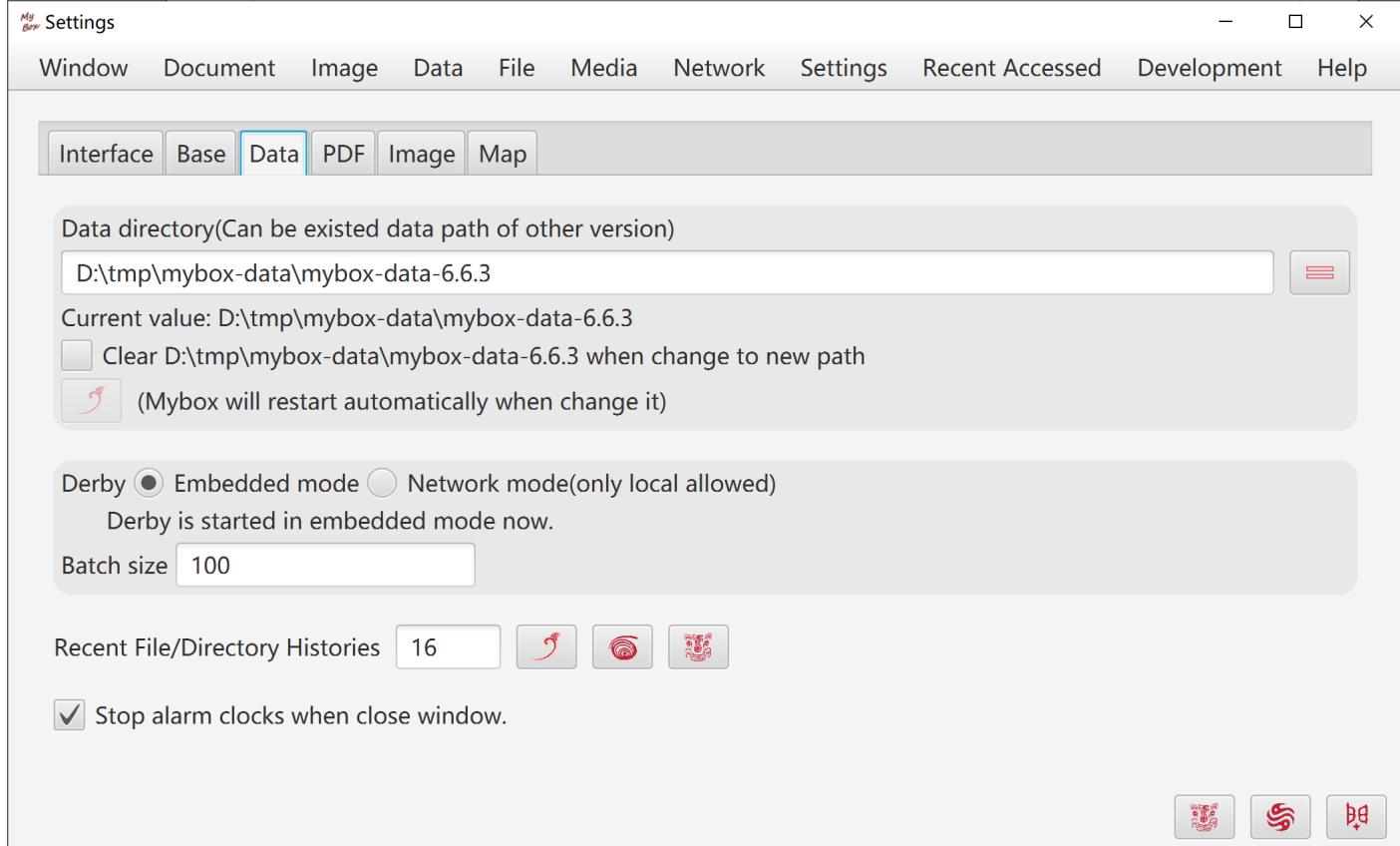
## 7.2 Base

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 2

Anchor Color Width 10 Solid

Grid lines Color Width 1 Interval Autom 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>

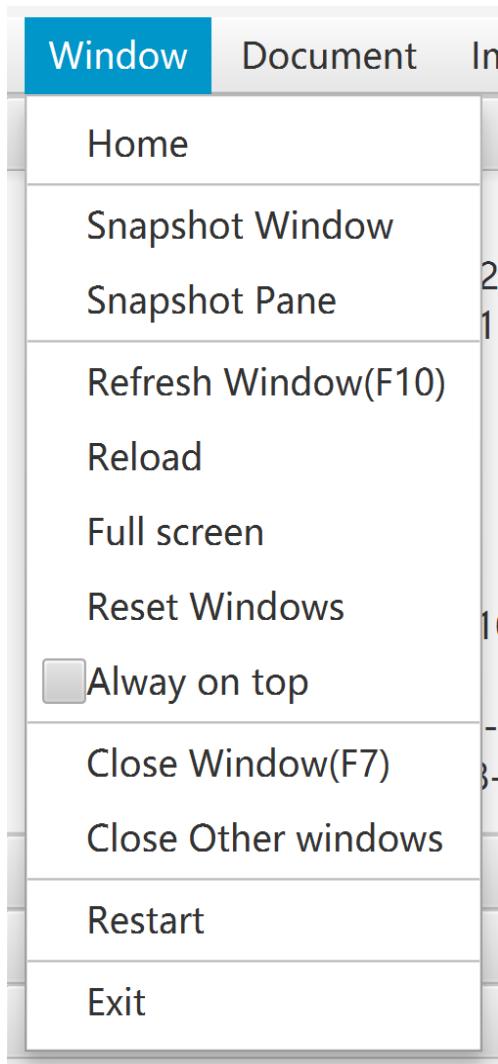
Web key of GaoDe map 06b9e078a51325a843dfefd57ffd876c

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.



<End of Document>