How to install irb and isrb

Installing irb in Windows

We can use `http://jruby.org/download`, which is a Java-version of Ruby. When you use Windows, we can download "JRuby 1.X.X Windows Executable" for a 32bit machine or with (x64) for a 64bit machine.

Anoterh version of `irb` can be downloaded and installed at `http://rubyinstaller.org/`. It is easy enough to download and click it. Do not forget to check "add Ruby executables to your PATH."

Remark. In Mac OS, Ruby and irb with previous version are already installed. You do not need to install anything, and you can use irb as in ECCS.

Using irb directly

You can use irb by clicking `irb.bat` in `bin` of the installed directory. To change the current directory, type in, for example,

```
Dir.chdir("C:/Users/Kakimura/Desktop"),
```

where `Kakimura` should be replaced with your user name.

It might be better to put a shortcut to `irb.bat` on your Desktop.

Using a command prompt

Step 1. Open a command prompt by typing in a search in Start menu for "command," or by going to Start → Accessories → Command Prompt.

Step 2. Type in `irb`.

Step 3. If you want to change the current directory to, for example, documents, type

```
cd Documents
```

before running irb. When you want to see the files and directories in the current directory on the command prompt, type `dir`.(not `ls` in Mac)

Remark. When you make a Ruby program, a text editor (such as mi in ECCS) is convenient. There are many free software available, such as Emacs, Emeditor free, Notepad++, and Hidemaru. I use Sakura Editor, a Japanese Text editor.

Installing isrb2

See `http://prg.is.titech.ac.jp/i2cs.rb/isrb2/` if you can understand Japanese. There are two versions isrb and isrb2. It is recommended to use isrb2(the latest one).

Windows

Step 1. Install JRuby following the instruction from `http://jruby.org/download`, which is a Java-version of Ruby. We can download "JRuby 1.X.X Windows Executable" for a 32bit machine or with (x64) for a 64bit machine.

Step 2. Download one of the following from the university website:

`http://prg.is.titech.ac.jp/i2cs.rb/isrb2/isrb2-20121001.zip`

or

`http://prg.is.titech.ac.jp/i2cs.rb/isrb2/isrb2-20121001.tar.gz`

and uncompress it.[1]

Step 3. Execute isrb.bat in the uncompressed folder. Then you can use isrb2. It might be better to put a shortcut to isrb.bat on your Desktop or somewhere.

Rem. Your .rb file should be put in C:/Users/[YourUserName]/ or the same directories as isrb.bat, or you can refer to Section 3 in the file Commands.pdf to change the directory.

Mac OS

Step 1. Download JRuby from `http://jruby.org/download`, which is a Java-version of Ruby. We can download "JRuby 1.X.XX.X Binary.zip" or "JRuby 1.X.XX.X Binary.tar.gz". Then uncompress it[1] somewhere, for example, in your Home Directory. You will have the directory jruby there.

Step 2. Download one of the following from the university website:

`http://lecture.ecc.u-tokyo.ac.jp/johzu/joho-kagaku/text/isrb2/isrb2-20121001.zip`

or

`http://lecture.ecc.u-tokyo.ac.jp/johzu/joho-kagaku/text/isrb2/isrb2-20121001.tar.gz`

and uncompress it somewhere, for example, in your Home Directory.

Step 3. Create/Edit a (hidden) file .bash_profile in your Home Directory(/Users/[YourAccount]), and add the following sentence in the file:

export PATH=$PATH:/Users/XXX/jruby-1.X.X/bin/:/Users/XXX/isrb2

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[1]The zip and tar.gz are file formats of compressed files. We can uncompress/extract a compressed file using some archiver software such as WinZip, CubeICE, 7-zip, the Archiver (Mac), and so on.

We need to replace /Users/XXX/.. with the real location in your Mac. Also we need to change the version number of jruby. The above sentence means you add two more directories in the environment variable PATH.

Rem. The purpose of the final step is to use isrb in your command terminal as in ECCS. You need to specify the location of isrb by adding the location to PATH.

Step 4. If you type in isrb on your terminal, then you can use it as in ECCS terminals.