Detailed steps for GMATA installation

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Here are detailed installation steps:

The software GMATA comes with original codes which work well in different platforms once you installed prerequisite programming free software of perl, R and Java after following step 1, 2 and 3, which can be ignored if your computer has them installed.

Installation steps can be divided into two parts: Part 1 and Part 2. Part 1 can be ignored in most Mac and Linux systems.

After completion of Part 1, you do not to do anything. And then you can go to Part 2 for installation of GMATA. The GMATA installation is simple and very easy.

If the GMATA did not produce any result files, it means that your prerequisite software in Part I is not installed correctly.

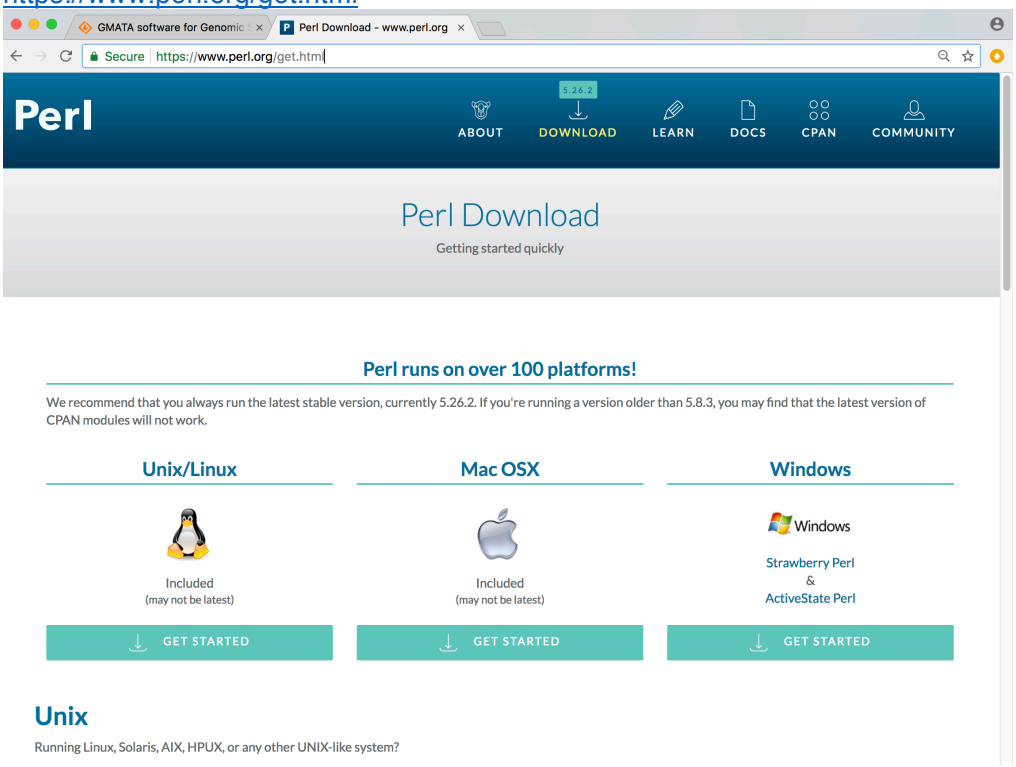
Follow these steps below to get GMATA work.

Part 1: Preparation of prerequisite programming software:

Step1: perl installation

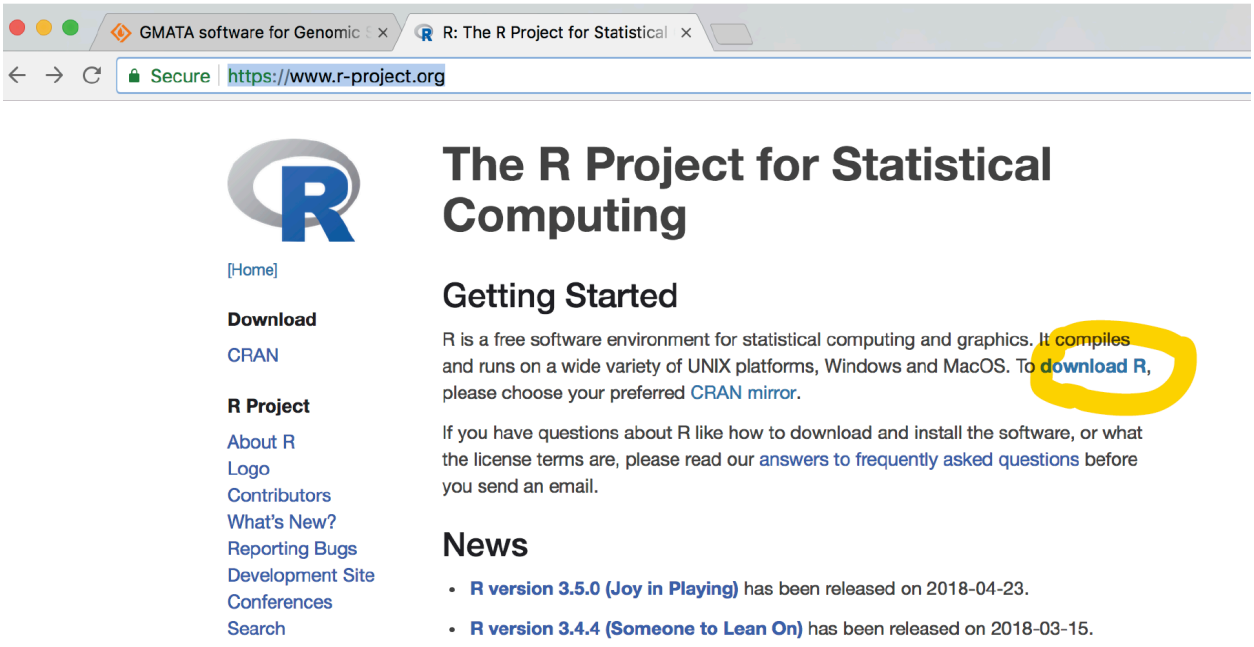
Mac and Linux system already have perl installed so you do NOT need to install perl. If your computer has no perl installed, you have to install the latest release of perl version 5. Click the link below to download and follow instruction to install perl.

https://www.perl.org/get.html



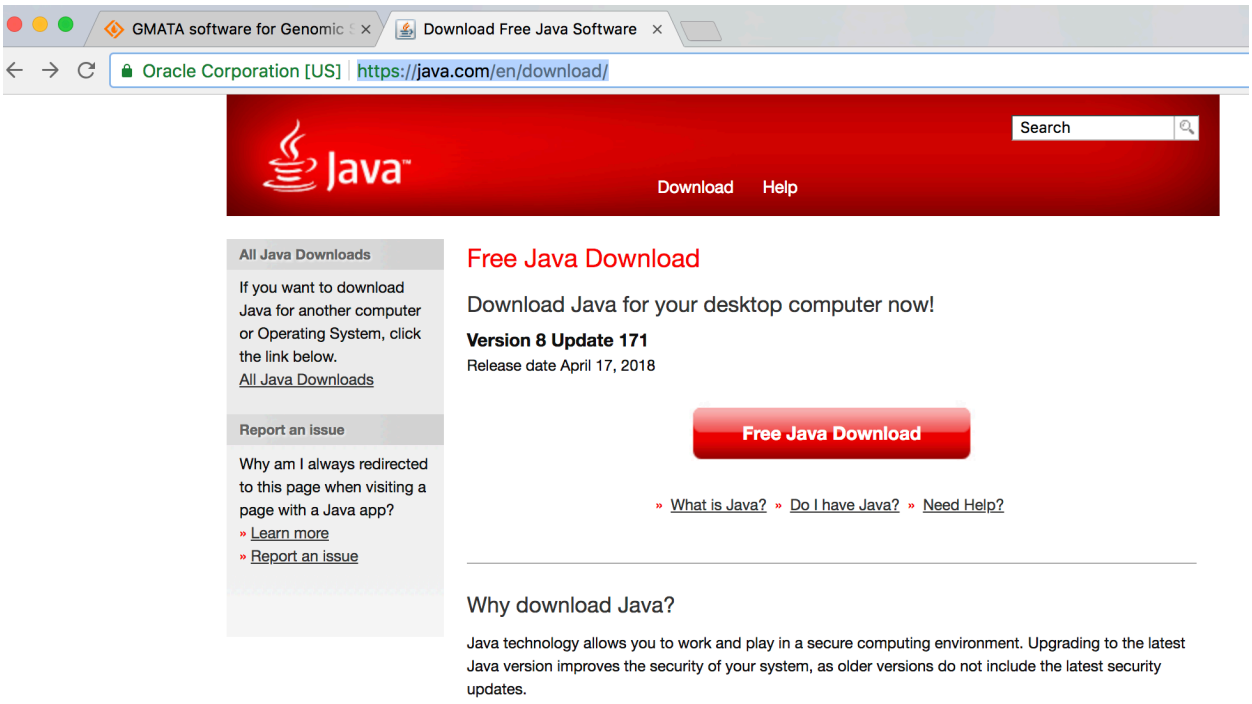
Step2: R installation

Go to the website below to download the newest version of R, click "download R" and install R following the prompted instruction.
https://www.r-project.org/



Step3: Java installation

Go to the website below to download the newest Java, click “Free Java Download” and install Java following the prompted instruction.
https://java.com/en/download/

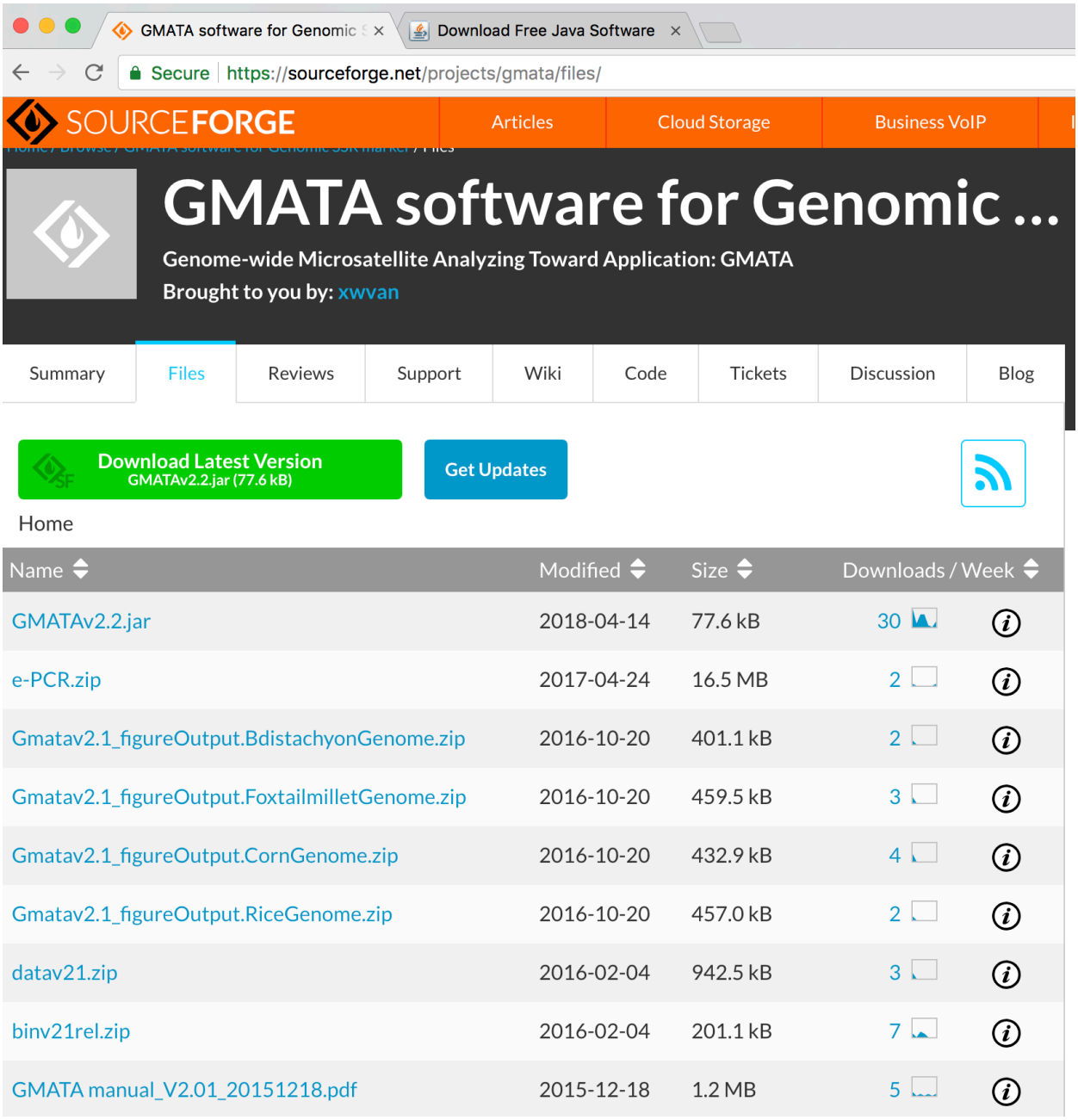


Part 2: GMATA installation

There are two options to install GMATA. You can choose any one of them. GMATA.jar or GMATAv2.2.jar is an executable file at Windows 8, 10, Linux and Mac OS. For advanced usage, please follow the instruction in user manual. If you want to see example data, example output and dependent software, you can download them from https://sourceforge.net/projects/gmata/files/

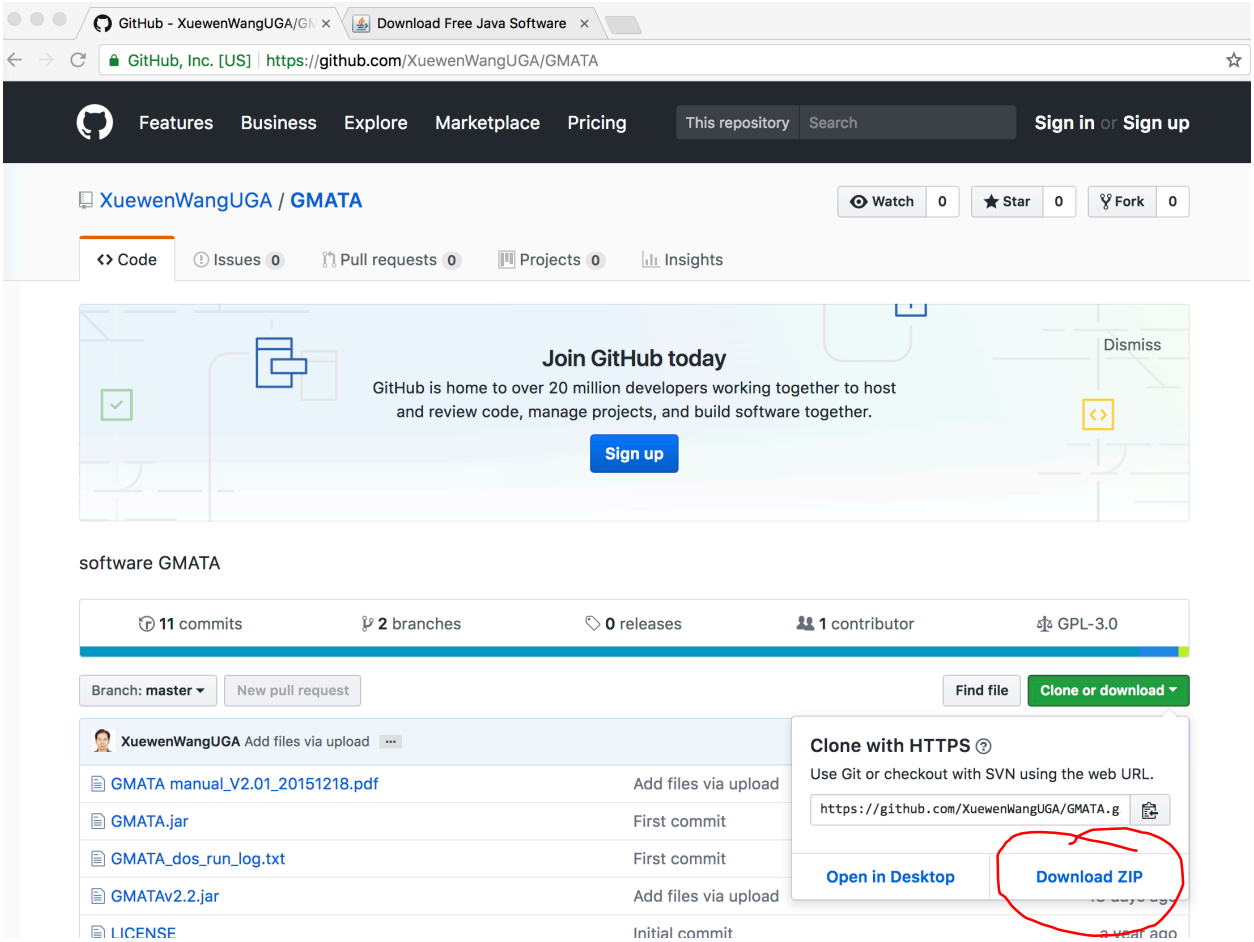
Option1:

1) get GMATA for free:
   got to website: https://sourceforge.net/projects/gmata/files/
2) download software file package “binv2.1.zip”, unzip this file to a directory called “GMATA”
3) download “GMATA.jar ” or “GMATAv2.2.jar”, and copy it to the same directory “GMATA”;
4) Go to directory “GMATA”; Then you double click the file "GMATA.jar" or the latest “GMATAv2.2.jar”, You will find GMATA is working.



Option2:

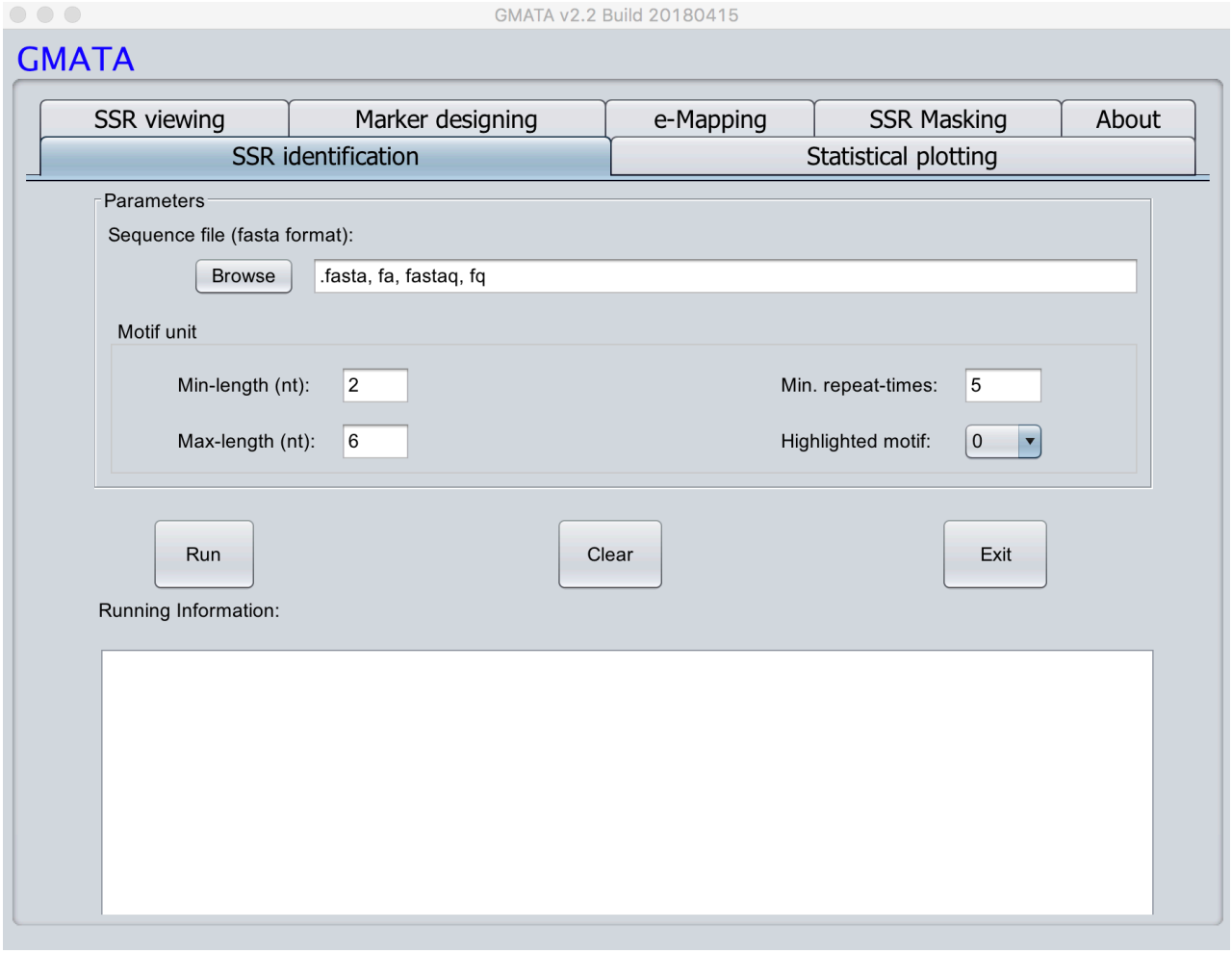
1. get GMATA for free:
   Go to website: https://github.com/XuewenWangUGA/GMATA , click “Clone or download”, choose “Download ZIP”. This will download a file “GMATA-master.zip” to your computer.
2. After downloading, unzip the downloaded file to a directory called “GMATA”
3. Go to directory “GMATA”; Then you double click the file "GMATA.jar" or the latest “GMATAv2.2.jar”. You will find GMATA is working.



Working with GMATA:

Go to directory “GMATA”, click “GMATA.jar” or “GMATAv2.2.jar”, you will see interface like this. Enjoy.

GMATA v2.0
GMATA
SSR identification
SSR statistical plotting
Gbrowse viewing
Marker designing
e-Mapping
About
Parameters
Sequence file (fasta format):
Browse
Motif unit
Min-length (nt):
2
Min. repeat-times:
5
Max-length (nt):
10
Highlighted motif:
0
Run
Clear
Exit
Running Information:


GMATA v2.2 Build 20180415
GMATA
SSR viewing
Marker designing
e-Mapping
SSR Masking
About
SSR identification
Statistical plotting
Parameters
Sequence file (fasta format):
Browse
.fasta, fa, fastaq, fq
Motif unit
Min-length (nt):
2
Min. repeat-times:
5
Max-length (nt):
6
Highlighted motif:
0
Run
Clear
Exit
Running Information: