Download and Installation of RuleBender

June 11, 2020

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Step 1: Navigate web browser to http://bionetgen.org

BioNetGen

This web site serves the BioNetGen user community by providing information about BioNetGen and tools for the development, annotation, and discussion of BioNetGen models.

Please send questions, comments, and account requests to bionetgen.help@gmail.com. We will treat all help requests, including models or model snippets, as *confidential*.

If you use BioNetGen in a work submitted for publication, please cite:

Harris, L. A. et al. BioNetGen 2.2: advances in rule-based modeling. Bioinformatics 32, 3366–3368 (2016).

In addition, please send us an email or send a tweet to @bionetgen. We'd love to hear about it!

Download

- RuleBender the graphical interface for BioNetGen that includes BioNetGen and NFsim source code and executables for Mac, Windows, and Linux. Current version is 2.3.2
- BioNetGen command-line only version that includes BioNetGen and NFsim source code plus executables for Mac, Windows, and Linux. **Current version is 2.5.1**

Step 2: In the Download section select RuleBender

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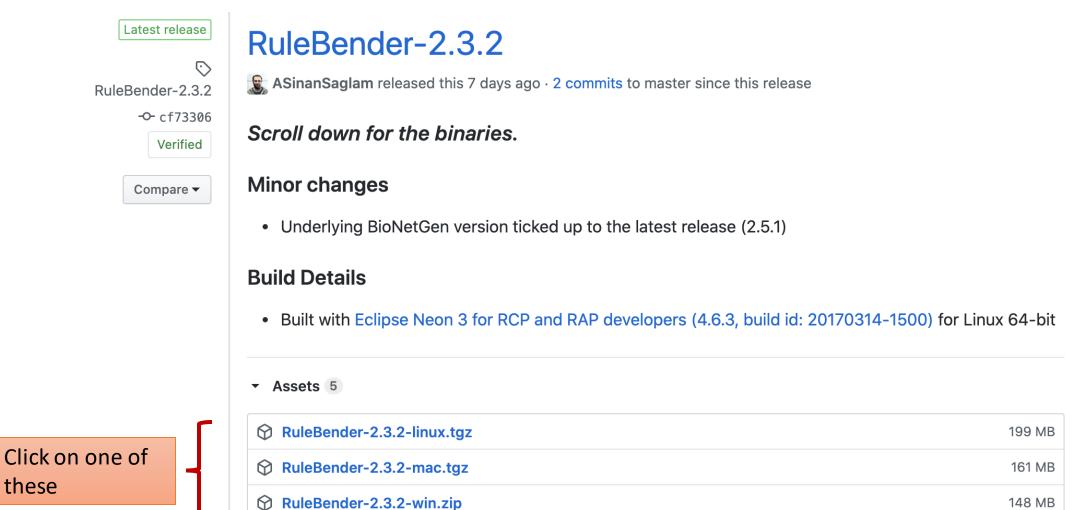
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Step 3: Select the appropriate bundle for your operating system



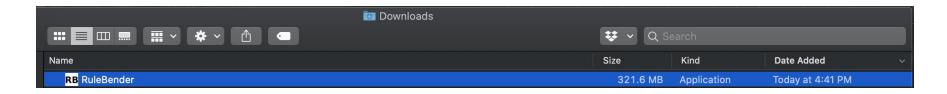
these

Mac Installation

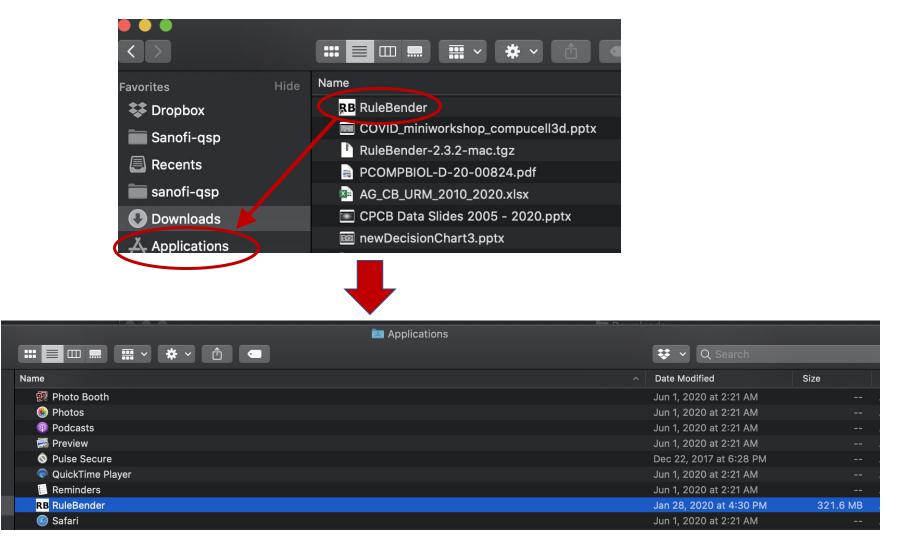
Step 4: Unzip the downloaded file

Depending on your browser, you may do this by clicking on the entry for the downloaded file at the bottom of your browser window or by navigating to the download file and double-clicking the downloaded file.

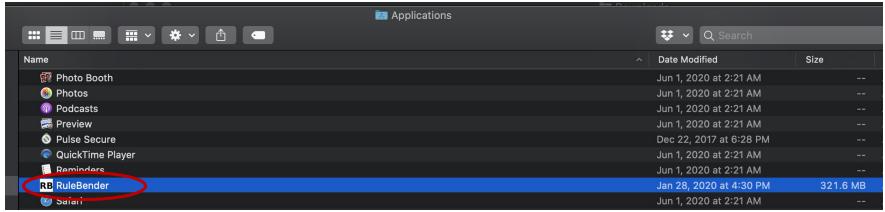
After performing either of these steps, you will see the application file for RuleBender in the corresponding folder



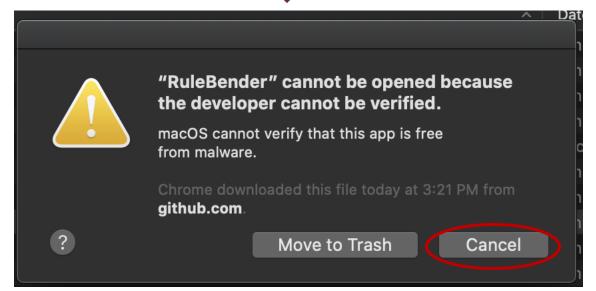
Step 5: Drag the RuleBender application into the desired install location.



Step 6: Double-click to launch RuleBender

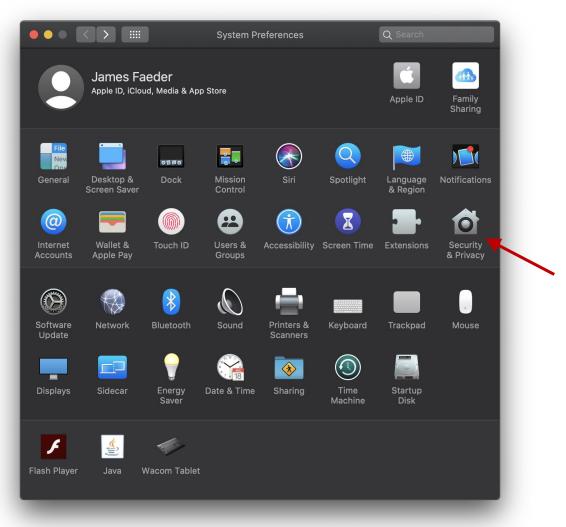




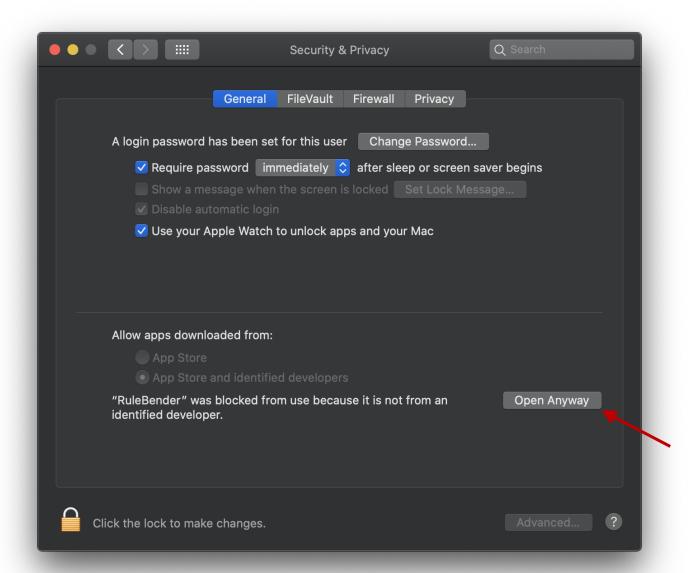


Click Cancel

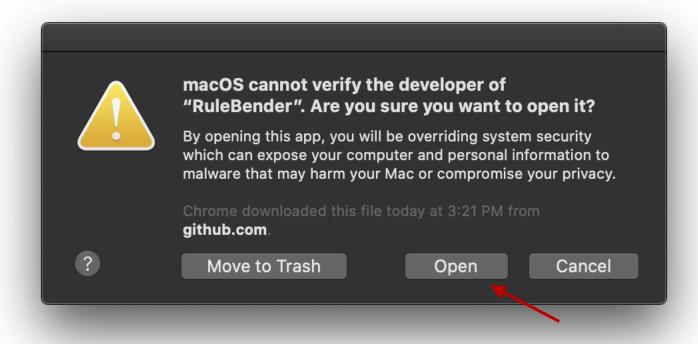
Step 7: Open System Preferences and click on 'Security & Privacy'



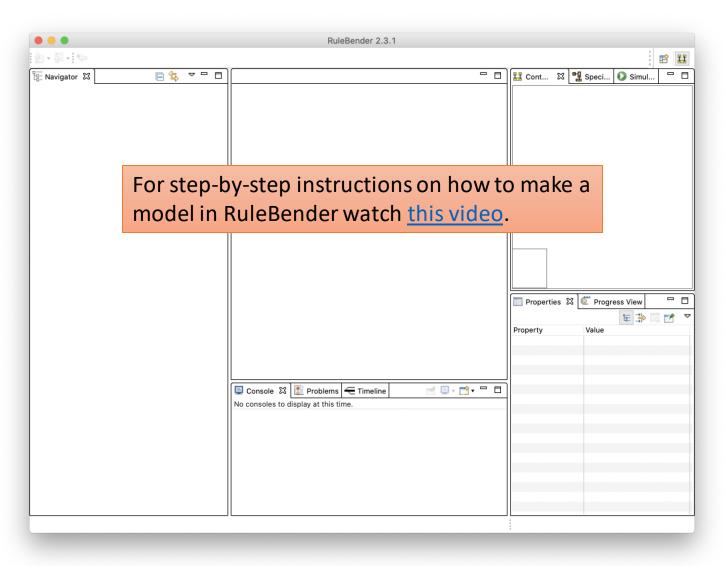
Step 8: Click on 'Open Anyway'



Step 9: Click on 'Open' and RuleBender will open



Step 10: Enjoy RuleBender!



Linux Installation

Step 4: Extract the downloaded tarball

Navigate to the folder where you downloaded the tarball. Extract the tarball typing the following command

tar xzf RuleBender-2.3.2-linux.tgz

```
(base) boltzmann@DESKTOP-1400HL9:~/rb$ ls
RuleBender-2.3.2-linux.tgz
(base) boltzmann@DESKTOP-1400HL9:~/rb$ tar xzf RuleBender-2.3.2-linux.tgz
(base) boltzmann@DESKTOP-1400HL9:~/rb$
```

Step 5: (Optional) Move the bundle and setup the environment

The bundle is self-contained so it can be moved anywhere

```
(base) boltzmann@DESKTOP-1400HL9:~/rb$ tar xzf RuleBender-2.3.2-linux.tgz
(base) boltzmann@DESKTOP-1400HL9:~/rb$ ls
RuleBender RuleBender-2.3.2-linux.tgz
(base) boltzmann@DESKTOP-1400HL9:~/rb$ mv RuleBender ~/apps/.
(base) boltzmann@DESKTOP-1400HL9:~/rb$ ls ~/apps/RuleBender/
about.html BioNetGen CREDITS.txt jre p2 RB-README.txt RuleBender.ini
artifacts.xml configuration icon.xpm LICENSE.txt plugins RuleBender SampleModels
(base) boltzmann@DESKTOP-1400HL9:~/rb$
```

You can also append the RuleBender path to your PATH variable in your .bashrc or .bash_profile startup script and run RuleBender from the command line from any folder

```
(base) boltzmann@DESKTOP-1400HL9:~/rb$ tail -n 1 ~/.bashrc
PATH="/home/boltzmann/apps/RuleBender:$PATH"
(base) boltzmann@DESKTOP-1400HL9:~/rb$ ./RuleBender
```

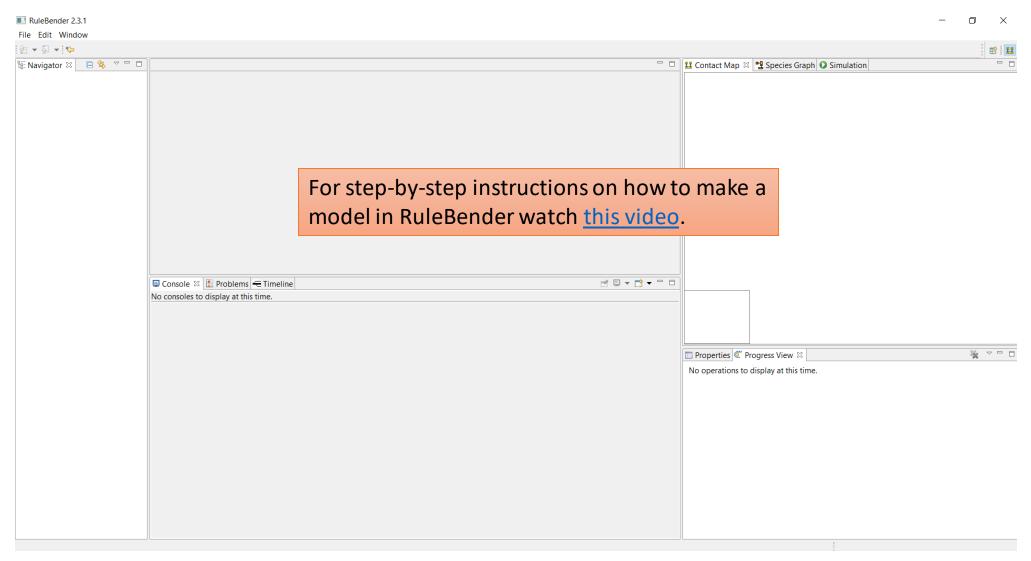
Step 6: Start Rulebender

Navigate to RuleBender folder which should now be in the folder you extracted the tarball in.

Start the RuleBender application by either double clicking on the RuleBender binary or typing ./RuleBender in the command line

```
(base) boltzmann@DESKTOP-1400HL9:~/rb$ cd RuleBender/
(base) boltzmann@DESKTOP-1400HL9:~/rb/RuleBender$ ls
about.html BioNetGen CREDITS.txt jre p2 RB-README.txt RuleBender.ini
artifacts.xml configuration icon.xpm LICENSE.txt plugins RuleBender SampleModels
(base) boltzmann@DESKTOP-1400HL9:~/rb/RuleBender$ ./RuleBender
```

Step 7: Enjoy RuleBender!

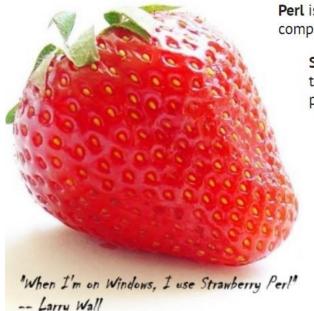


Windows Installation

Step 4: Download Strawberry Perl

Perl doesn't come pre-installed on Windows. A good Perl distribution for Windows is Strawberry Perl: http://strawberryperl.com/

The Perl for MS Windows, free of charge!



Perl is a programming language suitable for writing simple scripts as well as complex applications — see https://www.perl.org.

Strawberry Perl is a perl environment for MS Windows containing all you need to run and develop perl applications. It is designed to be as close as possible to perl environment on UNIX systems.

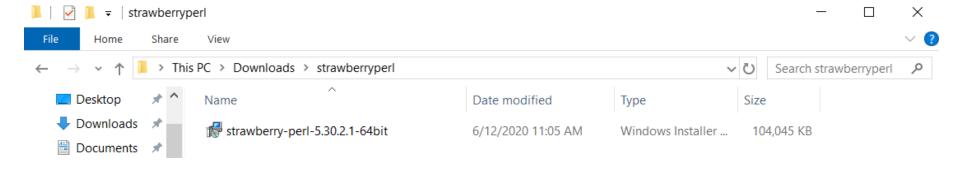
It includes perl binaries, compiler (gcc) + related tools, all the external libraries (crypto, math, graphics, xml...), all the bundled database clients and all you expect from Strawberry Perl.

Recommended version:

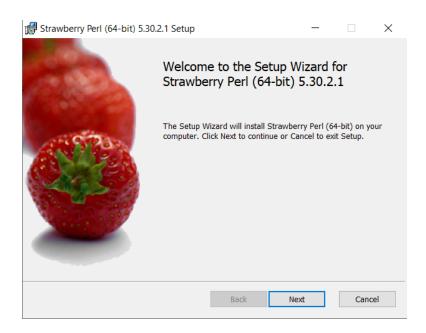
strawberry-perl-5.30.2.1-64bit.msi strawberry-perl-5.30.2.1-32bit.msi

Step 5: Install Perl

Navigate to the folder you downloaded the installer and double-click the installer.

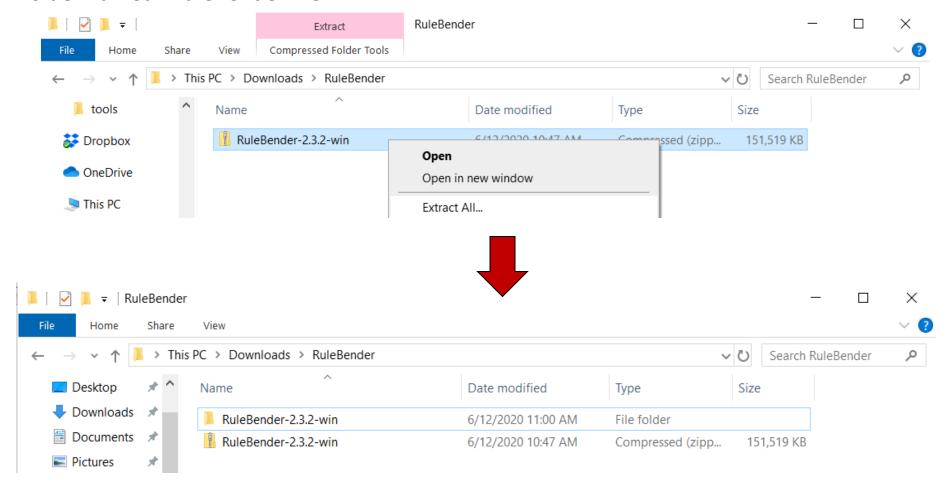


Follow the instructions to install Perl.



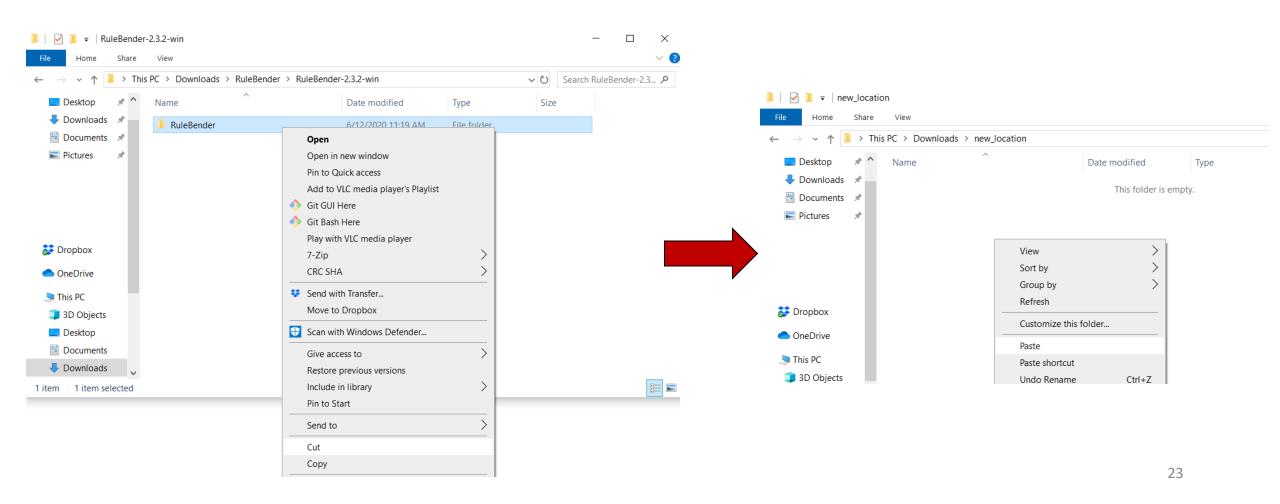
Step 6: Unzip the downloaded file

Navigate to the downloaded RuleBender file and right click. Click on "Extract All". This should create a folder named "RuleBender-2.3.2-win".



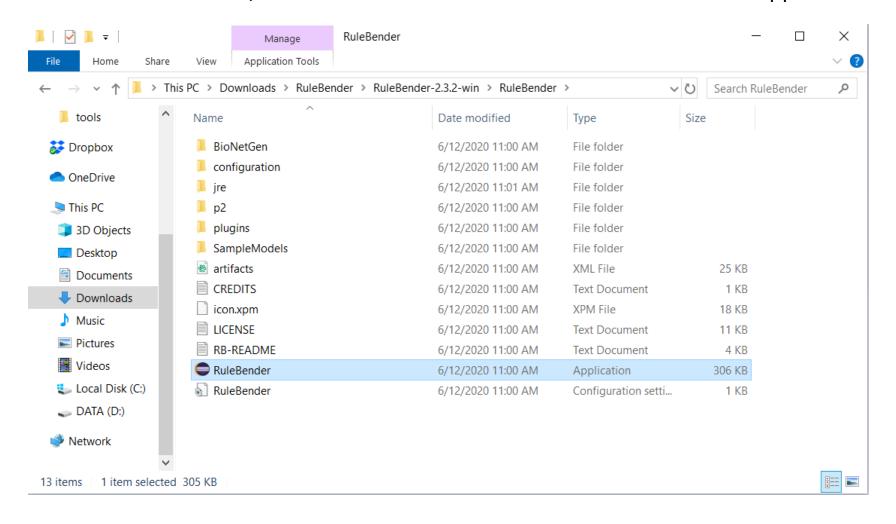
Step 7: (Optional) Move the folder

The bundle is self-contained so you can move "RuleBender-2.3.2-win/Rulebender" anywhere you want on your system



Step 8: Double-click to launch RuleBender

Navigate to RuleBender-2.3.2-win/RuleBender folder and double-click on RuleBender application.



Step 9: Enjoy RuleBender!

