

BioJS2Galaxy - A step by step guide

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By *Benedikt Rauscher, Benjamin White* – 12/07/2015.

To encourage the use of [BioJavaScript \(BioJS\)](#) visualisations in [Galaxy](#) we decided to create this simple step by step guide on how to use [@MrGreenify's](#) application, [biojs2galaxy](#), which he introduced at the [Galaxy Community Conference 2015](#) in Norwich. As an example, we will use the [Multiple Sequence Alignment \(MSA\)](#) viewer BioJS component (which was also written by [@MrGreenify](#)).

To use [biojs2galaxy](#) you need to have [node](#) and [npm](#) installed. If you have never heard of node or npm it's about time! You can find all the information you need in the [npm documentation](#).

Once you have installed npm you can use it to download [biojs2galaxy](#) with the following command:

sudo npm install -g biojs2galaxy

Once the installation was successful, typing [biojs2galaxy](#) into your terminal should produce the

```
Benedikts-MBP:~ bene1$ biojs2galaxy
Please choose an option

Usage: biojs2galaxy [packages]

Automated import of biojs components into galaxy

Options:
  -h, --help                output usage information
  -V, --version             output the version number
  -v, --verbose             Increase verbosity
  -a, --all                 Download all packages from npm
  -o, --output [folder]    Output folder
  -p, --path [path]        Path to local package
  -r, --remove             Clear output folder
```

following result:

Now you are ready to use [biojs2galaxy](#) to import BioJS visualisation plugins into your Galaxy installation.

The following command will import the MSA viewer into your Galaxy installation:

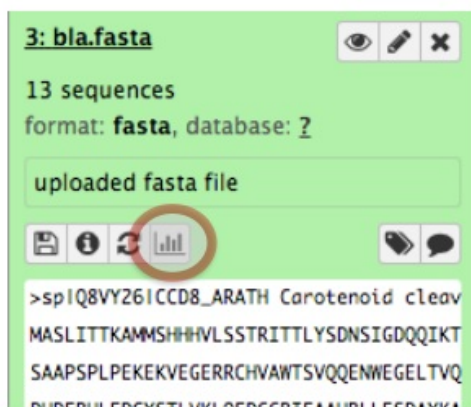
biojs2galaxy msa -o <path2galaxy>/config/plugins/visualizations/

Note: This command will import the plugin into the standard Galaxy visualisation plugin folder. If you have changed the standard configuration, please adapt it accordingly.

In the end you should see the following in your terminal:

```
main info All packages have been installed. Congrats!
```

Now all you need to do is restart Galaxy and you are good to go! In Galaxy, upload a file in a MSA-suited file format, select it, and click the visualisation icon. Ta da!



Not all BioJS components support a Galaxy import yet, but many do. If you want to import all available BioJS components into your Galaxy installation with one command you can use:

biojs2galaxy --all

We hope you found this short guide useful, please feel free to share it!