

MAJIQ

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Before installation

MAJIQ installation requires the following lib/software to be installed in your system.

- **Python version 3.10**; Lower or higher versions may work, but 3.10 is the currently tested and supported version
- **C++11 compiler** with openMP. [GCC \(https://git-scm.com/\)](https://git-scm.com/) includes that by default, but clang can be updated to include those ([Clang/OMP \(https://clang-omp.github.io/\)](https://clang-omp.github.io/)). MAJIQ/VOILA has been tested to work with GNU GCC>=7.2, RedHat GCC>=4.7.2.
- **HTSLib (<http://www.htslib.org/>) library**. This is a C library for reading/writing high-throughput sequencing data developed by Samtools organisation. MAJIQ installation assumes the library and its header files are present in the Unix default locations (/usr/local/lib, /usr/local/include). If that is not the case the appropriate locations can be specified setting the following environment variables.

```
$ export HTSLIB_LIBRARY_DIR=/path/to/htslib/lib  
$ export HTSLIB_INCLUDE_DIR=/path/to/htslib/include
```

Installation

To download and install MAJIQ/Voila run the following commands:

```
$ python3 -m venv env  
$ source env/bin/activate  
$ pip install git+https://bitbucket.org/biociphers/majiq_academic.git
```

If there is an error during install please verify that you're installing these packages with [python 3](https://www.python.org/) (<https://www.python.org/>) and the installed version of [pip](https://pypi.python.org/pypi/pip) (<https://pypi.python.org/pypi/pip>) is current. Also, check if you have [git](https://git-scm.com/) (<https://git-scm.com/>), a c compiler ([gcc](https://git-scm.com/) (<https://git-scm.com/>), [clang](https://clang.llvm.org/) (<https://clang.llvm.org/>), etc.), and [zlib](https://zlib.net/) (<https://zlib.net/>) installed. If everything appears to be correct or you're in need of some help please post on our [help forum \(http://groups.google.com/forum/#forum/majiq_voila\)](http://groups.google.com/forum/#forum/majiq_voila).

Academic License

Starting with MAJIQ version 2.5, academic and commercial versions require providing a license file for use. **Please note that the software will not function without providing the license file.**

Download License (academic use only) ([majiq_license_academic_official.lic](https://bitbucket.org/biociaphers/majiq_academic_official.lic))

In order to support usage of the license with minimal disruption to various workflow use cases, we provide many methods to provide the license when running majiq or voila:

- Provide the switch `--license` to majiq or voila with an explicit path to the license file
- Set the environment variable `MAJIQ_LICENSE_FILE` with the explicit path to the license file
- Check the current working directory for any file which begins with "majiq_license"
- Check the users's home directory for any file which begins with "majiq_license"

Voila Only Installation

Right now Voila runs as a local service to offer a dynamic interaction with your results, for that reason you for an interactive usage Voila view needs to be run locally.

We are aware that some users runs MAJIQ in a server or server-like host and visualize Voila locally, for that reason we provide a way to install just voila in your local machine.

```
$ python3 -m venv env
$ source env/bin/activate
$ pip install git+https://bitbucket.org/biociaphers/majiq_academic.git#subdirectory=voila
```

For more information you can check our [software documentation](https://biociaphers.bitbucket.io/majiq-docs-academic/) (<https://biociaphers.bitbucket.io/majiq-docs-academic/>) or register for our [google group](http://groups.google.com/forum/#!forum/majiq_voila) (http://groups.google.com/forum/#!forum/majiq_voila) to ask questions, participate in discussions, or receive updates.

Previous version of MAJIQ

If you are interested on downloading MAJIQ-1.1.x version family you can use the following steps to do it. We strongly recommend to move to MAJIQ 2.x version, and we no longer support the 1.1 version family.

```
$ pip install cython pysam numpy
$ pip install git+https://bitbucket.org/biociaphers/majiq_stable.git@majiq_11x#egg=majiq_11x
```

If you are interested to access Majiq/Voila source code, you can send us an email to majiq@biociaphers.org (<mailto:majiq@biociaphers.org>), include your [bitbucket](http://bitbucket.org) (<http://bitbucket.org>) username, and we will be glad to grant it to you.

Thank you for using our software
Biociaphers Team

[\(http://www.biociphers.org\)](http://www.biociphers.org)

ABOUT (HTTP://WWW.BIOCIPHERS.ORG/#!RESEARCH/C5TT) **BLOG (HTTP://BIOCIPHERS.WORDPRESS.COM/)**

CONTACT (HTTP://WWW.BIOCIPHERS.ORG/#!CONTACT/C9P2)

MAJIQ FORUM (HTTP://GROUPS.GOOGLE.COM/FORUM/#!FORUM/MAJIQ_VOILA)

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