
ipywidgets Documentation

Release 5.0.0.dev

<https://jupyter.org>

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Note: This documentation is for a development version of ipywidgets. There may be significant differences from the latest stable release.

Interactive HTML Widgets

ipywidgets are interactive HTML widgets for [Jupyter](#) notebooks and the IPython kernel.

Installation

Users can install the current version of **ipywidgets** with *pip* or *conda*.

```
pip install ipywidgets  
# or  
conda install ipywidgets
```

Contents

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3.1 Installation

Users can install the current version of **ipywidgets** with **pip** or **conda**.

```
pip install ipywidgets
```

or

```
conda install ipywidgets
```

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3.2 Examples

There is a subdirectory called `examples` in the GitHub repo for **ipywidgets**. In the `samples` subdirectory are two directories, `notebooks` and `development`.

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3.3 Installation for Developers

1. To install **ipywidgets** from GitHub using git, you will need to have `npm` installed.
2. Clone the repo

```
git clone https://github.com/ipython/ipywidgets
cd ipywidgets
```

3. Do a development install of the **ipywidgets** package by running the following from the repo's root directory)

```
pip install -e .
```

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3.4 Testing

3.4.1 Running Python tests

To run the Python tests:

```
nosetests --with-coverage --cover-package=ipywidgets ipywidgets
```

3.4.2 Running the Javascript tests

To run the Javascript tests:

```
npm run buildtests; python -m ipywidgets.jstest
```

To run the Javascript tests with all output printed:

```
npm run buildtests; python -m ipywidgets.jstest -- --logall
```

Description of jstest additional arguments:

logall - If there is atleast one failure in the notebook, log information for every cell. logsuccess - Log information for every cell in the notebook, regardless of failure.

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3.5 Creating a release

3.5.1 Release a new version of the widgets on PyPI and npm

1. Checkout master branch of [ipywidgets repo](#).
2. **cd** into the ipywidgets subfolder of the repo root.
3. Then run the following from the command line, replacing the square bracketed content with appropriate values:

```
npm version [patch/minor/major]
npm publish
git push [upstream master]
git push [upstream] --tags
```

On GitHub:

1. Go to <https://github.com/ipython/ipywidgets/milestones> and click **Close** for the released version.
2. Make sure patch, minor, and/or major milestones exist as appropriate. If not, create the milestone using GitHub's interface.

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3.6 Contributing

We appreciate contributions from the community.

We follow the [IPython Contributing Guide](#) and [Jupyter document on Contributing to the Code](#)

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3.7 ipywidgets changelog

A summary of changes in ipywidgets. For more detailed information, see [GitHub](#).

3.7.1 4.1.x

4.1.1

4.1.0

3.7.2 4.0.x

4.0.3

Bump version with miscellaneous bug fixes.

4.0.2

Add README.rst documentation.

4.0.1

Remove ipynb checkpoints.

4.0.0

First release of **ipywidgets** as a standalone package.