

---

# **PyBEL-Jupyter Documentation**

***Release 0.3.0***

**Charles Tapley Hoyt**

**Apr 16, 2020**



# CONTENTS

<b>1</b>	<b>Installation</b>	<b>3</b>
<b>2</b>	<b>Getting Started</b>	<b>5</b>
<b>3</b>	<b>Indices and tables</b>	<b>7</b>
	<b>Python Module Index</b>	<b>9</b>
	<b>Index</b>	<b>11</b>



A PyBEL extension for Jupyter notebooks.



## INSTALLATION

`pybel_jupyter` can be installed easily from [PyPI](#) with the following code in your favorite terminal:

```
$ pip install pybel-jupyter
```

or from the latest code on [GitHub](#) with:

```
$ pip install git+https://github.com/pybel/pybel-jupyter.git
```





## GETTING STARTED

Inside a Jupyter notebook, run the following code at the end of the cell to get an interactive visualization:

```
>>> from pybel.examples import sialic_acid_graph
>>> from pybel_jupyter import to_jupyter
>>> to_jupyter(sialic_acid_graph)
```

`pybel_jupyter.to_html` (*graph*, *color\_map=None*)

Create an HTML visualization for the given JSON representation of a BEL graph.

### Parameters

- **graph** (BELGraph) – A BEL graph
- **color\_map** (Optional[Mapping[str, str]]) – A dictionary from PyBEL internal node functions to CSS color strings like #FFEE00. Defaults to `default_color_map`

**Return type** str

**Returns** HTML string representing the graph

`pybel_jupyter.to_html_file` (*graph*, *file*, *color\_map=None*)

Write the HTML visualization to a file or file-like.

### Parameters

- **graph** (BELGraph) – A BEL graph
- **color\_map** (Optional[Mapping[str, str]]) – A dictionary from PyBEL internal node functions to CSS color strings like #FFEE00. Defaults to `default_color_map`
- **file** (*file*) – A writable file or file-like or file path

**Return type** None

`pybel_jupyter.to_jupyter` (*graph*, *width=1000*, *height=650*, *color\_map=None*)

Display a BEL graph inline in a Jupyter notebook.

To use successfully, make run as the last statement in a cell inside a Jupyter notebook.

### Parameters

- **graph** (BELGraph) – A BEL graph
- **width** (int) – The width of the visualization window to render
- **height** (int) – The height of the visualization window to render
- **color\_map** (Optional[Mapping[str, str]]) – A dictionary from PyBEL internal node functions to CSS color strings like #FFEE00. Defaults to `default_color_map`

**Returns** An IPython notebook Javascript object

**Return type** `IPython.display.Javascript`

`pybel_jupyter.to_jupyter_str(graph, width=1000, height=650, color_map=None)`

Return the string to be javascript-ified by the Jupyter notebook function `IPython.display.Javascript`.

**Parameters**

- **graph** (`BELGraph`) – A BEL graph
- **width** (`int`) – The width of the visualization window to render
- **height** (`int`) – The height of the visualization window to render
- **color\_map** (`Optional[Mapping[str, str]]`) – A dictionary from PyBEL internal node functions to CSS color strings like `#FFEE00`. Defaults to `default_color_map`

**Return type** `str`

**Returns** The javascript string to turn into magic

## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`



## PYTHON MODULE INDEX

### p

pybel\_jupyter, ??



## INDEX

### M

module  
    pybel\_jupyter, 1

### P

pybel\_jupyter  
    module, 1

### T

to\_html() *(in module pybel\_jupyter)*, 5  
to\_html\_file() *(in module pybel\_jupyter)*, 5  
to\_jupyter() *(in module pybel\_jupyter)*, 5  
to\_jupyter\_str() *(in module pybel\_jupyter)*, 6