

local_js

December 28, 2020

1 Try local javascript

Use javascript in a notebook with local scripts.

```
[1]: from jyquickhelper import add_notebook_menu
      add_notebook_menu()
```

```
[1]: <IPython.core.display.HTML object>
```

1.1 JSJSON

```
[2]: from jyquickhelper import JSONJS
      JSONJS(dict(name="xavier", city="Paris"), only_html=True, show_to_level=3, local=True)
```

```
[2]: <jyquickhelper.jspy.render_nb_json.RenderJSON at 0x1c5ca7d9630>
```

The function copies the javascript code in the current folder.

```
[3]: import os
      [_ for _ in os.listdir(os.getcwd()) if '.js' in _]
```

```
[3]: ['custom_demo.js', 'renderjson.js', 'vis.min.js', 'viz-lite.js', 'viz.js']
```

1.2 RenderJsDot

```
[4]: from jyquickhelper import RenderJsDot
```

```
dot = """
digraph {
    d[label="longer label"];
    a -> b -> c;
    b -> d;
}
"""
```

```
RenderJsDot(dot, local=True)
```

```
[4]: <jyquickhelper.jspy.render_nb_js_dot.RenderJsDot at 0x1c5ca7d9dd8>
```

1.3 RenderJsVis

```
[5]: script = """
    var nodes = new vis.DataSet([
      {id: 1, label: 'Node 1'},
      {id: 2, label: 'Node 2'},
      {id: 3, label: 'Node 3'},
      {id: 4, label: 'Node 4'},
      {id: 5, label: 'Node 5'}
    ]);

    // create an array with edges
    var edges = new vis.DataSet([
      {from: 1, to: 3},
      {from: 1, to: 2},
      {from: 2, to: 4},
      {from: 2, to: 5},
      {from: 3, to: 3}
    ]);

    // create a network
    var data = {
      nodes: nodes,
      edges: edges
    };
    var options = {};
    """
```

```
[6]: from jyquickhelper import RenderJsVis
RenderJsVis(script, local=False, width="400px", height="300px")
```

```
[6]: <jyquickhelper.jspy.render_nb_js_vis.RenderJsVis at 0x1c5ca7e8320>
```

1.4 RenderJsVis with DOT

[DOT]([https://en.wikipedia.org/wiki/DOT_\(graph_description_language\)](https://en.wikipedia.org/wiki/DOT_(graph_description_language))) is quite popular to describe graph.

```
[7]: from jyquickhelper import RenderJsVis

dot = """
digraph {
  d[label="longer label"];
  a -> b -> c;
  b -> d;
}
"""

RenderJsVis(dot=dot, local=True)
```

```
[7]: <jyquickhelper.jspy.render_nb_js_vis.RenderJsVis at 0x1c5ca7a3550>
```

```
[8]: RenderJsVis(dot=dot, local=True, layout="hierarchical", height="200px")
```

```
[8]: <jyquickhelper.jspy.render_nb_js_vis.RenderJsVis at 0x1c5ca7e8128>
```

[9] :