Notebook

September 17, 2016

```
In [1]: # Widget related imports
    import ipywidgets as widgets
    from IPython.display import display, clear_output, Javascript
    from traitlets import Unicode

# nbconvert related imports
    from nbconvert import get_export_names, export_by_name
    from nbconvert.writers import FilesWriter
    from nbformat import read, NO_CONVERT
    from nbconvert.utils.exceptions import ConversionException
```

This notebook shows a really roundabout way to get the name of the notebook file using widgets. The true purpose of this demo is to demonstrate how Javascript and Python widget models are related by id.

Create a text Widget without displaying it. The widget will be used to store the notebook's name which is otherwise only available in the front-end.

```
In [2]: notebook_name = widgets.Text()
```

Get the current notebook's name by pushing JavaScript to the browser that sets the notebook name in a string widget.

Export the notebook when the export button is clicked.

```
In [6]: file_writer = FilesWriter()
        def export(name, nb):
            # Get a unique key for the notebook and set it in the resources object.
            notebook_name = name[:name.rfind('.')]
            resources = {}
            resources['unique_key'] = notebook_name
            resources['output_files_dir'] = '%s_files' % notebook_name
            # Try to export
            try:
                output, resources = export_by_name(exporter_names.value, nb)
            except ConversionException as e:
                download_link.value = "<br>Could not export notebook!"
            else:
                write_results = file_writer.write(output, resources, notebook_name=notebook_name)
                download_link.value = "<br/>br>Results: <a href='files/{filename}'><i>\"{filename}\"</i></a
                download_link.visible = True
        def handle_export(widget):
            with open(filename, 'r') as f:
                export(filename, read(f, NO_CONVERT))
        export_button.on_click(handle_export)
  Display the controls.
In [7]: display(exporter_names, export_button, download_link)
                            •
               html
```

Export