Demo_of_RISE_for_slides_with_Jupyter_notebooks__Python

September 21, 2017

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2 Demo of RISE for slides with Jupyter notebooks (Python)

- This document is an example of a slideshow, written in a Jupyter notebook with the RISE extension.

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2.1 Title 2

2.1.1 Title 3

Title 4

Title 5

Title 6

2.2 Text

With text, *emphasis*, **bold**, ~~striked~~, `inline code` and

> *Quote.*
>
> -- By a guy.

2.3 Maths

With inline math $\sin(x)^2 + \cos(x)^2 = 1$ and equations:

$$\sin(x)^2 + \cos(x)^2 = \left(\frac{e^{ix} - e^{-ix}}{2i}\right)^2 + \left(\frac{e^{ix} + e^{-ix}}{2}\right)^2 = \frac{-e^{2ix} - e^{-2ix} + 2 + +e^{2ix} + e^{-2ix} + 2}{4} = 1.$$

2.4 And code

In Markdown:

```
from sys import version
print(version)
```

And in a executable cell (with Python 3 kernel) :

```
In [7]: from sys import version
        print(version)

3.5.3 (default, Sep  7 2017, 16:23:57)
[GCC 6.3.0 20170406]
```

3 More demo of Markdown code

3.1 Lists

- Unordered
- lists
- are easy.

And

1. and ordered also ! Just
2. start lines by 1., 2. etc
3. or simply 1., 1., ...

agreg/images/dooku.jpg

Images With a HTML `<img/>` tag or the `![alt](url)` Markdown code:

```
In [8]: # https://gist.github.com/dm-wyncode/55823165c104717ca49863fc526d1354
        """Embed a YouTube video via its embed url into a notebook."""
        from functools import partial

        from IPython.display import display, IFrame

        width, height = (560, 315, )

        def _iframe_attrs(embed_url):
            """Get IFrame args."""
            return (
                ('src', 'width', 'height'),
                (embed_url, width, height, ),
            )

        def _get_args(embed_url):
            """Get args for type to create a class."""
            iframe = dict(zip(*_iframe_attrs(embed_url)))
            attrs = {
                'display': partial(display, IFrame(**iframe)),
            }
            return ('YouTubeVideo', (object, ), attrs, )

        def youtube_video(embed_url):
            """Embed YouTube video into a notebook.

            Place this module into the same directory as the notebook.

            >>> from embed import youtube_video
            >>> youtube_video(url).display()
            """
            YouTubeVideo = type(*_get_args(embed_url)) # make a class
            return YouTubeVideo() # return an object

Out[8]: 'Embed a YouTube video via its embed url into a notebook.'
```

And Markdown can include raw HTML This is a centered span, colored in green.

Iframes are disabled by default, but by using the IPython internals we can include let say a YouTube video:

```
In [9]: youtube_video("https://www.youtube.com/embed/FNg5_2UUCNU").display()
```

```
<IPython.lib.display.IFrame at 0x7fec9e1244a8>
```

4 End of this demo

- See here for more notebooks!
- This document, like my other notebooks, is distributed under the MIT License.