Demo_of_RISE_for_slides_with_Jupyter_notebooks__OCaml

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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.


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:

```ocaml
Sys.command "ocaml -version";;
```

And in a executable cell (with OCaml 4.04.2 kernel):

```
In [1]: Sys.command "ocaml -version";;
```

The OCaml toplevel, version 4.04.2

```
Out[1]: - : int = 0
```

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

```ocaml
In [6]: #thread ;;
   #require "jupyter.notebook" ;;

   let youtube_video url = JupyterNotebook.display "text/html"
      (Printf.sprintf "<iframe width=560 height=315 src='%s'</iframe>" url)
;;
```

```ocaml
Out[6]: val youtube_video : string -> JupyterNotebook.display_id = <fun>
```

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:

```ocaml
In [7]: youtube_video "https://www.youtube.com/embed/FNg5_2UUCNU";;
```

```ocaml
Out[7]: - : JupyterNotebook.display_id = <abstr>
```

4 End of this demo

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