LEARN CODING

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github.com/ale66/learn-coding

NOTEBOOKS

- Outline
- Kernels
- Markdown

OUTLINE

JULIA, PYTHON AND R

- Step-by-step execution, inside a browser or an IDE
- code is broken up into segments called **cells**
- each cell is like a mini-program, after which we can suspend the execution to evaluate the intermediate results
- code cells are often interleaved with explanatory text/diagrams written in the *Markdown annotation language*.
- a *notebook* is a special file in Jupyter format, with extension *.ipynb*

KERNELS

1
2
3

KERNELS

- an interpreter that runs in the background of a notebook
- a Jupyter extensions brokers our code to the kernel piecemeal
- step-by-step execution
- intermediate data is kept inside the jupyter browser

MARKDOWN

1
2
3

SIMPLE TEXT MARK-UP/DECORATION

Simple annotations to the text guide the creation of HTML (web page) displays

More complex effects are obtained by *embedding*

- HTML code for formatting
- LaTeX code for mathematics

double underscores for **boldface:**

```
__boldface:__
```

stars for *italics:*

```
*italics:*
```

A dash followed by space for lists:

```
- HTML code for formatting
```

Hash symbols for titles:

```
# Big title

## A bit smaller

###### tiny title
```

It is easy to link text,

```
[link text](https://www.markdownguide.org/basic-syntax/)
```

include images and

```
![](https://mdg.imgix.net/assets/images/tux.png)
```

code

````
```python
# this is python!
M = 0
```
````

```python
# this is python!
M = 0
```