filterNotebook

For test cases, see ./cases/README.md

To watch the explanatory videos of Lecture Notes (in Python), from the THEORY and PRACTICE of Information Processing course, see the class page:

pi-2025-1

See the course material and introductory videos of Computer Science Bases, for practice with Colab:

bcc-2021-3

For more details, see [paperSBIE2021]](https://doi.org/10.5753/sbie.2021.217464).

Generator Notebooks with Filter by Language

From notebooks with 'code' or 'markdown' cells with markers in the first line defining a language to be filtered, with the syntax

```
#[type]#
```

new notebooks will be created by executing the following command:

```
python filterNotebook.py file type format

file: example 'all/cap1.part1.ipynb' or 'all'
type: save in 'py', 'js', 'java', 'c', 'cpp', 'r' or 'all'
      also: 'type1+type2+...' more one type per file, for comparisons.
            eg. 'py+js' in alphabetic order
format: empty, 'html', 'markdown', 'slides' or 'all'
```

New folders will be created with the filters made. For example:

`python filterNotebook.py all py`

The `py` folder will be created (if it does not exist), filtering all cells starting with `#[py]#` , of all `ipynb` files inside the `all` folder.

Students can choose their preferred programming languages to send codes in a single Moodle+VPL activity, with automatic correction! Just change the extension of the uploaded file:

`'py', 'js', 'java', 'c', 'cpp' or 'r'`

If `format=all` , all files will be merged into one book: * `gen/*/ALL.ipynb` * `gen/*/ALL.html` * `gen/*/ALL.tex` * `gen/*/ALL.pdf`

Attention: change the notebooks contained only in the `all` folder. The remaining notebooks are generated automatically and frequently, according to the changes in the originals in `all` .

If the teacher adopts a specific language and wants to personalize the notebooks, make a copy of the generated notebooks.

If you have any suggestions for correction or improvement, please contact the authors.