

Librairie Mendeleev

La librairie [Mendeleev](#) est complète et évoluée

- Package repository sur PyPI : <https://pypi.org/project/mendeleev/>
- Page officielle, description et code source : <https://github.com/lmmentel/mendeleev>
- Documentation complète : <https://mendeleev.readthedocs.io/en/stable/>
 - Tutoriels : <https://mendeleev.readthedocs.io/en/stable/tutorials.html>
- Notebook Jupyter (exemples) :
 - https://nbviewer.jupyter.org/github/lmmentel/mendeleev/blob/master/docs/source/notebooks/01_intro_to_mendeleev.ipynb (tutoriel introductif)
 - https://nbviewer.jupyter.org/github/lmmentel/mendeleev/blob/master/docs/source/notebooks/02_tables.ipynb (accessing the data in bulk)
 - https://nbviewer.jupyter.org/github/lmmentel/mendeleev/blob/master/docs/source/notebooks/03_plotting.ipynb (plotting tutorial)
- Installation via pip, ou la commande conda, ou l'interface de Anaconda, suivant l'environnement utilisé :
 - pip install -user mendeleev
 - conda install -c conda-forge mendeleev=0.5.2
 - conda install -c lmmentel mendeleev=0.6.1 (version plus récente)
- Données utilisables, en ligne : <http://mendeleev.herokuapp.com/>

Exemples de programmes simples

[IonizationEnergy-01.py](#)

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-

"""
Library references :
* https://pypi.org/project/mendeleev/
* https://mendeleev.readthedocs.io/en/stable/
* https://github.com/lmmentel/mendeleev
"""

from mendeleev import element
import matplotlib.pyplot as plt

x, y = range(1,108), [element(i).ionenergies[1] for i in range(1,108)]
for i in range(1,108):
    print(x[i-1], y[i-1])

plt.figure()
plt.plot(x, y)
plt.savefig("ionenergies.png")
plt.show()
```

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<https://dvillers.umons.ac.be/wiki/teaching:progappchim:mendeleev?rev=1614686068>

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