

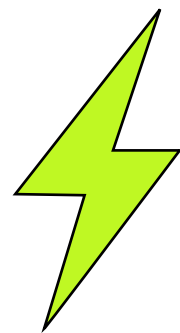


Programmeringsmiljø

Jupyter og Kaggle

KRISTIAN BOTNEN, 2024

Lokalt



Nettbasert



<https://docs.conda.io/en/latest/miniconda.html>



Visual Studio Code

<https://code.visualstudio.com/>



by JetBrains

<https://www.jetbrains.com/pycharm/>



<https://www.spyder-ide.org>

Python shell

```
(base) [kbo041@isfjell ~]$ python
Python 3.12.1 | packaged by Anaconda, Inc. | (main, Jan 19 2024, 15:51:05) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print("Hello world")
Hello world
>>> exit()
(base) [kbo041@isfjell ~]$ cat helloscript.py
#!/home/kbo041/miniconda3/bin/python
print("Hello world")
(base) [kbo041@isfjell ~]$ python helloscript.py
Hello world
(base) [kbo041@isfjell ~]$
```

iPython shell

```
(jupyter) [kbo041@isfjell ~]$ ipython
Python 3.12.2 | packaged by Anaconda, Inc. | (main, Feb 27 2024, 17:35:02) [GCC 11.2.0]
Type 'copyright', 'credits' or 'license' for more information
IPython 8.20.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: print("Hello world")
Hello world

In [2]: print("Hello world")
```



Free software, open standards, and web services for interactive computing
across all programming languages

```
(base) [kbo041@isfjell ~]$ conda activate jupyter
(jupyter) [kbo041@isfjell ~]$ conda install jupyter
Channels:
 - defaults
Platform: linux-64

(jupyter) [kbo041@isfjell ~]$ jupyter notebook
[I 2024-03-31 10:02:51.606 ServerApp] Package notebook took 0.0000s to import
[I 2024-03-31 10:02:51.642 ServerApp] Package jupyter_lsp took 0.0352s to import
[W 2024-03-31 10:02:51.642 ServerApp] A `_jupyter_server_extension_points` function was not found in jupyter_lsp. Instead, a `_jupyter_server_extension_paths` function was found and will be used for now. This function name will be deprecated in future releases of Jupyter Server.
[I 2024-03-31 10:02:51.658 ServerApp] Package jupyter_server_terminals took 0.0152s to import
[I 2024-03-31 10:02:51.659 ServerApp] Package jupyterlab took 0.0000s to import
[I 2024-03-31 10:02:51.738 ServerApp] Package notebook_shim took 0.0000s to import
[W 2024-03-31 10:02:51.738 ServerApp] A `_jupyter_server_extension_points` function was not found in notebook_shim. Instead, a `_jupyter_server_extension_paths` function was found and will be used for now. This function name will be deprecated in future releases of Jupyter Server.
[I 2024-03-31 10:02:51.740 ServerApp] jupyter_lsp | extension was successfully linked.
[I 2024-03-31 10:02:51.747 ServerApp] jupyter_server_terminals | extension was successfully linked.
[I 2024-03-31 10:02:51.755 ServerApp] jupyterlab | extension was successfully linked.
[I 2024-03-31 10:02:51.766 ServerApp] notebook | extension was successfully linked.
[I 2024-03-31 10:02:51.770 ServerApp] Writing Jupyter server cookie secret to /home/kbo041/.local/share/jupyter/runtime/jupyter_cookie_secret
[I 2024-03-31 10:02:52.497 ServerApp] notebook_shim | extension was successfully linked.
[I 2024-03-31 10:02:52.539 ServerApp] notebook_shim | extension was successfully loaded.
[I 2024-03-31 10:02:52.542 ServerApp] jupyter_lsp | extension was successfully loaded.
[I 2024-03-31 10:02:52.544 ServerApp] jupyter_server_terminals | extension was successfully loaded.
[I 2024-03-31 10:02:52.547 LabApp] JupyterLab extension loaded from /home/kbo041/miniconda3/envs/jupyter/lib/python3.12/site-packages/jupyterlab
[I 2024-03-31 10:02:52.547 LabApp] JupyterLab application directory is /home/kbo041/miniconda3/envs/jupyter/share/jupyter/lab
[I 2024-03-31 10:02:52.549 LabApp] Extension Manager is 'pypi'.
[I 2024-03-31 10:02:52.552 ServerApp] jupyterlab | extension was successfully loaded.
[I 2024-03-31 10:02:52.557 ServerApp] notebook | extension was successfully loaded.
[I 2024-03-31 10:02:52.559 ServerApp] Serving notebooks from local directory: /home/kbo041
[I 2024-03-31 10:02:52.559 ServerApp] Jupyter Server 2.10.0 is running at:
[I 2024-03-31 10:02:52.559 ServerApp] http://localhost:8888/tree?token=09e97040e870c15636561e2905335ce2bdbf8d97ace8eebb
[I 2024-03-31 10:02:52.559 ServerApp] http://127.0.0.1:8888/tree?token=09e97040e870c15636561e2905335ce2bdbf8d97ace8eebb
[I 2024-03-31 10:02:52.559 ServerApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[W 2024-03-31 10:02:52.567 ServerApp] No web browser found: Error('could not locate runnable browser').
[C 2024-03-31 10:02:52.568 ServerApp]
```

To access the server, open this file in a browser:

file:///home/kbo041/.local/share/jupyter/runtime/jpserver-16354-open.html

Or copy and paste one of these URLs:

http://localhost:8888/tree?token=09e97040e870c15636561e2905335ce2bdbf8d97ace8eebb

http://127.0.0.1:8888/tree?token=09e97040e870c15636561e2905335ce2bdbf8d97ace8eebb

```
[I 2024-03-31 10:02:52.599 ServerApp] Skipped non-installed server(s): bash-language-server, dockerfile-language-server-nodejs, javascript-typescript-languageserver, jedi-language-server, julia-language-server, pyright, python-language-server, python-lsp-server, r-languageserver, sql-language-server, texlab, typescript-language-server, unified-language-server, vscode-css-languageserver-bin, vscode-html-languageserver-bin, vscode-json-languageserver-bin, yaml-language-server
```


co

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(New) Try the Gemini API

- Generate a Gemini API key
- Talk to Gemini with the Speech-to-Text API
- Gemini API: Quickstart with Python
- Gemini API code sample
- Compare Gemini with ChatGPT
- More notebooks

If you're already familiar with Colab, check out this video to learn about interactive tables, the executed code history view, and the command palette.

3 Cool Google Colab Features

https://colab.research.google.com/

● ×

<https://www.kaggle.com/>

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