Programmeringsmiljø

Jupyter, Kaggle og Colab

KRISTIAN BOTNEN, 2025

Lokalt Nettbasert

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

https://jupyter.org/

```
(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 `_jupyte
r_server_extension_paths` function was found and will be used for now. This function name will be deprecated in future releases of Ju
pyter 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 `_jupy
ter_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_cooki
e_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, javas
cript-typescript-langserver, jedi-language-server, julia-language-server, pyright, python-language-server, python-lsp-server, r-langu
ageserver, sql-language-server, texlab, typescript-language-server, unified-language-server, vscode-css-languageserver-bin, vscode-ht
ml-languageserver-bin, vscode-json-languageserver-bin, yaml-language-server
```

Jupyter Notebook - Notebook

jupyter Intro Last Checkpoint: 1 minute ago

File Edit View Run Kernel Settings Help

Not Trusted

Markdown

Open in... Python 3 (ipykernel)

```
## Markdown
* Liste_a
* Liste_b
```

```
print("Hello world")
```

[ ]:

- Code
- ✓ Markdown
- Raw

Click to add a cell.

Jupyter Notebook - Notebook

jupyter Intro Last Checkpoint: 2 minutes ago

File Edit View Run Kernel Settings Help

Trusted

Code

Open in... Python 3 (ipykernel)

Markdown

- Liste_a
- Liste_b

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

```
Hello world
```

[ ]:

Welcome To Colaboratory

File Edit View Insert Runtime Tools Help

Share Sign in

Table of contents

Getting started

Data science

Machine learning

More Resources

Featured examples

+ Section

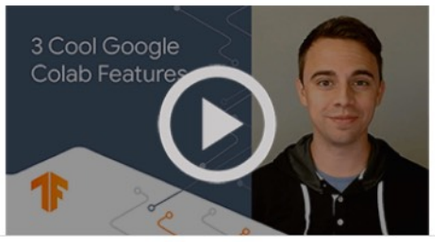
+ Code + Text Copy to Drive Connect

Welcome to Colab!

(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.



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

https://www.kaggle.com/

kaggle Search Sign In Register

Level up with the largest AI & ML community

Join over 17M+ machine learners to share, stress test, and stay up-to-date on all the latest ML techniques and technologies. Discover a huge repository of community-published models, data & code for your next project.

Register with Google Register with Email

Who's on Kaggle?

Learners
Dive into Kaggle courses, competitions & forums.

Developers
Leverage Kaggle's models, notebooks & datasets.

Researchers
Advance ML with our pre-trained model hub & competitions.