



JupyterLab

- Even if you don't use Jupyter, you can still take this survey. Just indicate this fact in the first question and carry on as best as you can.
- Thank you - your participation guides Jupyter's roadmap toward your real-life use cases.
- So that you know what to expect, it's comprised of 20 questions (#7 is the

0 of 22 answered

only big one) spread across these sections:

- Usage patterns.
- Data
- Visualization.
- Scale.
- Collaboration.

OK

Usage Patterns

* 1. How frequently do you use Jupyter?

- ☐ Daily: 4 or more hours per day.
- ☐ Daily: 3 or less hours per day.
- ☐ Weekly.
- ☐ Monthly.
- ☐ I no longer use Jupyter.
- ☐ I have never used Jupyter.

* 2. How long have you been using

0 of 22 answered

- ☐ 2+ years.
- ☐ 1-2 years.
- ☐ 6-12 months.
- ☐ Less than 6 months (welcome =)].
- ☐ I don't use Jupyter.

* 3. What languages do you use in Jupyter? (pick up to 4).

- | | |
|---|---|
| <input type="checkbox"/> C (and derivatives) | <input type="checkbox"/> Ruby |
| <input type="checkbox"/> Groovy | <input type="checkbox"/> Rust |
| <input type="checkbox"/> Java | <input type="checkbox"/> Scala |
| <input type="checkbox"/> JavaScript | <input type="checkbox"/> Spark SQL |
| <input type="checkbox"/> NodeJS | <input type="checkbox"/> SQL |
| <input type="checkbox"/> Perl | <input type="checkbox"/> TypeScript |
| <input type="checkbox"/> PHP | <input type="checkbox"/> ! I wrap/ use bindings for other languages. |
| <input type="checkbox"/> Python | <input type="checkbox"/> ! My preferred language is not supported in Jupyter. |
| <input type="checkbox"/> R | |
| <input type="checkbox"/> Other (please specify) | |

0 of 22 answered

* 4. What are your primary job roles when you are using Jupyter? (pick up to 2).

- | | |
|--|--|
| <input type="checkbox"/> Backend engineer. | <input type="checkbox"/> Front end/ web development. |
| <input type="checkbox"/> Business analyst. | <input type="checkbox"/> Infrastructure engineer/ cloud architect. |
| <input type="checkbox"/> Data engineer. | <input type="checkbox"/> Scientist/ researcher. |
| <input type="checkbox"/> Data scientist. | <input type="checkbox"/> Student. |
| <input type="checkbox"/> Database Admin (DBA). | <input type="checkbox"/> Sysadmin. |
| <input type="checkbox"/> DevOps. | <input type="checkbox"/> Teacher/ lecturer. |
| <input type="checkbox"/> Financial modeler/ analyst. | <input type="checkbox"/> Tutor/ teaching assistant. |
| <input type="checkbox"/> Other (please specify) | |

* 5. What are your go-to tools for performing data science, scientific computing, and machine learning on your laptop/ desktop (non-cloud) for data science? (pick up to 3).

- | | |
|---|-----------------------------------|
| <input type="checkbox"/> Zeppelin. | <input type="checkbox"/> VS Code. |
| <input type="checkbox"/> JupyterLab | <input type="checkbox"/> Emacs. |
| <input type="checkbox"/> PyCharm. | <input type="checkbox"/> Vim. |
| <input type="checkbox"/> Jupyter Notebook (classic) | <input type="checkbox"/> iPython. |

0 of 22 answered

- | | |
|---|-----------------------------------|
| <input type="checkbox"/> Sublime Text. | <input type="checkbox"/> RStudio. |
| <input type="checkbox"/> Spyder. | |
| <input type="checkbox"/> Other (please specify) | |

* 6. How do you run and/ or access Jupyter? (pick up to 4).

- | | |
|--|---|
| <input type="checkbox"/> Run directly on local machine (laptop, desktop). | <input type="checkbox"/> Cloud service - Azure: Notebooks, ML Studio. |
| <input type="checkbox"/> Through a Python virtual environment (e.g. conda, venv) | <input type="checkbox"/> Cloud service - Databricks |
| <input type="checkbox"/> Through Docker. | <input type="checkbox"/> Cloud service - Google: AI Platform, Dataproc. |
| <input type="checkbox"/> HPC or on-premise server. | <input type="checkbox"/> Cloud service - IBM: Watson. |
| <input type="checkbox"/> Cloud server (e.g. EC2). | <input type="checkbox"/> Google Colab. |
| <input type="checkbox"/> JupyterHub. | <input type="checkbox"/> Through a 3rd party SaaS app (e.g. Observable, CoCalc) |
| <input type="checkbox"/> BinderHub / MyBinder. | <input type="checkbox"/> ? Don't know how, I just go to a URL. |
| <input type="checkbox"/> Cloud service - AWS: EMR, SageMaker. | |
| <input type="checkbox"/> Other (please specify) | |

0 of 22 answered

* 7. What tasks do you need to perform and what tools do you use to accomplish them?

	How frequently do you perform this task?	To what degree does Jupyter meet your expectations for this?	To what degree do alternative tools meet your expectations for this?
Building a machine learning or statistical model.			
Writing a software package.			
Writing and running tests for software.			
Cleaning and preparing data.			
Run pipelines, workflows, or ETL jobs.			
Visualize data in charts, plots, or dashboards.			
Documenting research (reports, scientific papers)			
Creating content (blogs).			
Finding extensions/ plugins to solve my problems.			
Writing software documentation.			

0 of 22 answered

How frequently do
you perform this task?

To what degree does
Jupyter meet your
expectations for this?

To what degree do
alternative tools meet
your expectations for
this?

Developing
extensions/
plugins to solve
my problems.

Other major use cases (please specify).

Data

* 8. What data sources are you primarily working with in your role? (pick up to 3).

- | | |
|---|--|
| <input type="checkbox"/> My local file system (e.g. files and folder on local machine). | <input type="checkbox"/> Graph database (Neo4j, TigerGraph). |
| <input type="checkbox"/> File system (e.g. HPC, EBS/EFS, JupyterHub volumes). | <input type="checkbox"/> Time Series (e.g. InfluxDB). |
| <input type="checkbox"/> Cloud object storage (e.g. buckets, S3, Blob, GS). | <input type="checkbox"/> Pub sub (e.g. Kafka, Druid). |
| <input type="checkbox"/> SQL (e.g. PostgreSQL, MySQL) | <input type="checkbox"/> Key value (e.g. Redis, MemcacheDB). |
| <input type="checkbox"/> SQL - embedded (e.g. SQLite) | <input type="checkbox"/> Google Sheets. |
| | <input type="checkbox"/> ! Industry or field specific APIs. |
| | <input type="checkbox"/> Streaming. |

0 of 22 answered

- ☐ NoSQL - columnar store
(e.g. Parquet, Arrow, HDFS,
BigQuery).
- ☐ NoSQL - document store
(e.g. MongoDB,
Elasticsearch, CouchDB).
- ☐ Other (please specify)

* 9. What data formats are you mostly
working with? (pick up to 3).

- | | | |
|---|---------------------------------------|---|
| <input type="checkbox"/> Tabular (csv,
spreadsheet,
database tables,
parquet). | <input type="checkbox"/> Time series. | <input type="checkbox"/> Graph (nodes,
edges). |
| <input type="checkbox"/> Images. | <input type="checkbox"/> Text. | <input type="checkbox"/> Spatial/
geographic
(coordinates,
GIS). |
| <input type="checkbox"/> Tensors (deep
learning). | <input type="checkbox"/> Audio. | <input type="checkbox"/> Game/
reinforcement
simulation. |
| <input type="checkbox"/> Nested (JSON,
NoSQL). | <input type="checkbox"/> Video. | <input type="checkbox"/> ! Industry-
specific file
formats. |
| <input type="checkbox"/> Hierarchical Data
Format (HDF5). | <input type="checkbox"/> 3D/ CAD. | |
| <input type="checkbox"/> Other (please specify) | | |

0 of 22 answered

* 10. Do you experience these **problems** with data in Jupyter? (rate from scale of 0-4).

	(0) Not a problem for me.	(1) Trivial.	(2) Minor.	(3) Major.	(4) Critical.	N/A - skip, don't know.
No grid view for manipulating/ filtering dataframes and arrays.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can't see a list of my current variables.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is too big to fit into memory on my machine/ server.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managing database/ source connections and secrets.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor MVC/ ORM integrations (Django, Flask).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lost data during failure or restart of kernel/ server.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)						

* 11. What type of analysis are you running? (up to 4).

☐ ! I am not performing ML/statistical tasks.

0 of 22 answered

- ☐ Regression (predict a numeric output).
- ☐ Classification (predict a categorical output).
- ☐ Generative/ auto-encode (create new data based on existing data).
- ☐ Reinforcement learning (actions that maximize a reward)
- ☐ Dimensionality reduction (PCA, K-Nearest Neighbors)
- ☐ Feature engineering (importance, extraction, selection, permutation).
- ☐ Natural language processing.
- ☐ Graph data science.
- ☐ Outlier detection.
- ☐ Other (please specify)

Visualization

* 12. What tools does your team use to create dashboards tools? (pick up to 3).

- ☐ ! My team doesn't create dashboard tools.
- ☐ Tableau.
- ☐ Looker.
- ☐ Write our own in HTML & JS.
- ☐ Klipfolio.

0 of 22 answered

☐ Kibana.☐ Spotfire.☐ Dash-Plotly.☐ Grafana☐ Voila.☐ Other (please specify)

* 13. Do you experience these **problems** with **visualization** in Jupyter?

	(0) Not a problem for me.	(1) Trivial.	(2) Minor.	(3) Major.	(4) Critical.	N/A - skip, don't know.
No built-in UI for creating charts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can't publish my charts as web-based dashboards.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor/ buggy support for my plotting tool.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Displaying highly dimensional data (array of array of arrays, too many rows/ columns to fit on screen).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lacking templating support (Jinja2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



0 of 22 answered

* 14. How do you scale and schedule your workloads? (up to 4).

- | | | |
|--|--|---|
| <input type="checkbox"/> They run just fine on my local machine 😊. | <input type="checkbox"/> Jupyter Enterprise Gateway. | <input type="checkbox"/> Workflow - Papermill |
| <input type="checkbox"/> ? I need to scale, but don't know how. | <input type="checkbox"/> Jupyter BinderHub. | <input type="checkbox"/> Workflow - Nextflow, WDL, CWL. |
| <input type="checkbox"/> On-premise HPC/ data center. | <input type="checkbox"/> Quantum (e.g. D-Wave). | <input type="checkbox"/> Workflow - Airflow. |
| <input type="checkbox"/> Cloud server (e.g. EC2) | <input type="checkbox"/> Horovod. | <input type="checkbox"/> Workflow - cloud service (e.g. AWS Batch) |
| <input type="checkbox"/> Cloud service for ML/ AI (e.g. AWS SageMaker) | <input type="checkbox"/> Elyra. | <input type="checkbox"/> Cloud query service (AWS Presto or Athena) |
| <input type="checkbox"/> Spark cluster (e.g. similar Hadoop, Dask). | <input type="checkbox"/> Workflow - Snakemake. | |
| <input type="checkbox"/> K8s cluster (e.g. Mesos, Swarm, Slurm). | | |
| <input type="checkbox"/> Other (please specify) | | |

15. Do you experience these **problems with scale** in Jupyter?

0 of 22 answered

	(0) Not a problem for me.	(1) Trivial.	(2) Minor.	(3) Major.	(4) Critical.	N/A - skip, don't know.
Figuring out how to schedule batch execution of notebook- based jobs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't have the budget for more scalable environment/ cloud services.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Haven't divided longer notebooks into multiple, modular notebooks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not persisting the outputs of a notebook.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ML training jobs take too long.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can't call code/ modules from other notebooks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managing Spark dependencies (Java) and connections.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Collaboration

0 of 22 answered

* 16. With how many other people are you collaborating?



* 17. What is your reason for sharing a notebook with someone else? (up to 3).

- | | |
|---|--|
| <input type="checkbox"/> ! I am not working with other people. | <input type="checkbox"/> Edit/ contribute some of their own code. |
| <input type="checkbox"/> Share knowledge. | <input type="checkbox"/> Edit/ contribute some of their own writing. |
| <input type="checkbox"/> Feedback about my writing. | <input type="checkbox"/> Teach/ tutor them. |
| <input type="checkbox"/> Feedback about my code. | <input type="checkbox"/> Peer programming. |
| <input type="checkbox"/> Formal code review. | <input type="checkbox"/> Deploy my code/ model/ pipeline/ dashboard. |
| <input type="checkbox"/> Integrate my code/ data with their downstream or upstream processes. | |
| <input type="checkbox"/> Other (please specify) | |

* 18. What is the nature of your collaboration?

How long have you been collaborating? How frequently do you work together?

How

0 of 22 answered

Describe the collaboration:

Comments about collaboration:

* 19. Do you have **challenges with collaboration** in Jupyter?

	(0) Not a problem for me.	(1) Trivial.	(2) Minor.	(3) Major.	(4) Critical.	N/A - skip, don't know.
Don't know what dependencies (versions of language, packages, extensions) a notebook uses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't know/ have the data a notebook is supposed to use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor support for our version control (git) system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Publishing my notebook to a shared location.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not being able to comment on notebooks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More robust non-git version history of notebooks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

0 of 22 answered

* 20. Do you have **challenges with the notebook UI?**

	(0) Not a problem for me.	(1) Trivial.	(2) Minor.	(3) Major.	(4) Critical.	N/A - skip.
Can't see hidden (.) files in file browser.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can't collapse sections of a notebook hierarchically.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No Extension marketplace (5 star ratings, categories).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No global search.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't know which cell failed in long notebook.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No progress bar for running long notebooks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor autocompletion [LSP, show methods/attributes].	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No modes for editing other Jupyter documents (MyST, Jupyter Book).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

You did it - thank you!

0 of 22 answered

21. Open feedback for problems/ pain points you didn't get to share.

//

22. Email Address for Recontact - Do we have your permission to recontact you for a user interview? (If not, leave this question blank.)

DONE

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0 of 22 answered