

Mixing R, Python, and Quarto: Crafting the Perfect Open Source Cocktail

Alenka Frim, Nic Crane
Apache Arrow





GitHub issue tracker

apache / arrow

<> Code Issues 4.5k Pull requests 337 Actions Projects 1

Filters ▾ is:issue is:open

4,451 Open ✓ 20,922 Closed

[Integration]: Add nanoarrow to IPC integration tests Compose

#43680 opened 40 minutes ago by bkietz

GitHub issue tracker, last year

R and Python

- 539 Pull Requests
- 1085 GitHub issues
 - 487 by new contributors



4,432 Open ✓ 20,857 Closed	Author ✓ Label ✓	4,316 Open ✓ 17,893 Closed	Author ✓ Label ✓ Projects ✓
[Python] Deprecate passing build flags to setup.py (e.g. setup.py --with-parquet) Component: Packaging #43510 opened 47 minutes ago by jorisverdierbosch		[Python] GH-43514: [Python] Deprecate passing build flags to setup.py awaiting committee review Component: Python #43515 opened 16 minutes ago by jorisverdierbosch	
[Java] ListViewVisitor-based component Integration Component: Java Type: enhancement #43512 opened 52 minutes ago by vibhatha		[Python] GH-43512: [Java] ListViewVisitor-based component Integration awaiting review Component: Java #43513 opened 53 minutes ago by vibhatha	
[Python] Current assertion of CPU-accessible data in Array methods is specific to CPU device type Component: GPU Component: Python Type: enhancement #43511 opened 1 hour ago by jorisverdierbosch		[Python] GH-43507: [C++] Use ViewOrCopyTo instead of CopyTo when pretty printing non-CPU data awaiting committee review Component: C++ Component: Python #43508 opened 2 hours ago by jorisverdierbosch	
[Python] Move tests that are explicitly about conversion to/from numpy on test_array.py to a separate file Component: Python Type: enhancement #43510 opened 1 hour ago by ruyotu		[Python] GH-43502: [Java] Fix Java JNI / AMD64 manylinux2014 Java JNI test not test dataset module awaiting review Component: Python #43503 opened 2 hours ago by vibhatha	
[R] Add link to 'Acero from ?list_compute_functions Component: R good first issue Type: enhancement #43504 opened 1 hour ago by thiesmo		[Python] GH-43500: [R][C/C] Bump dev docs CI job from ubuntu 20.04 awaiting committee review #43501 opened 14 hours ago by jorisverdierbosch	
[C/C] Use ViewOrCopyTo instead of CopyTo when pretty printing non-CPU data Component: C/C #43507 opened 2 hours ago by jorisverdierbosch		[Python] GH-43492: [C/C] Thirdparty: Bump I2z to 1.1.0 awaiting review Component: C/C #43493 opened 14 hours ago by jorisverdierbosch	

The screenshot shows a search results page for the query "apache-arrow". The results are displayed in a card-based format. Each card includes the question title, a snippet of the question text, the number of votes, the number of answers, and a link to the full question page.

- Questions tagged [apache-arrow]**
- Apache Arrow™ enables execution engines to take advantage of the latest SIMD (Single input multiple data) operations included in modern processors, for native vectorized optimization of analytical data processing.**
- Apache Arrow** Ask Question
- 693 questions**
- Recent** Active Bounded Unanswered More Filter
- Learn more... Top users Synonyms**
- Open with Python or R data.table saved as a metastore in a Parquet file with it, created a Parquet containing a data.table as main data, and another data.table as meta-data. Metastore saves (key,value) so it has below < 10, 10 > by 10, 10** asked 2016-04-06 at 10:00 PM
- python | parquet | pyarrow | apache-arrow**
- Convert hexademical StringArray to FixedSizeBinaryArray** asked 2017-01-10 at 10:00 PM
- I have an array of address references in hexademical format (0x10), encoded as an hexademical string. How can I transform that to a FixedSizeBinaryArray? That's using... >>> import** asked 2017-01-10 at 10:00 PM
- Apache arrow**
- In arrow, how to create schema according the original variable type and avoid type loss in manually** asked 2017-01-10 at 10:00 PM
- How do I convert a parquet mag file into kudu? my_kudu.create_table() is trying to create a schema, the schema tries to double or exceed existing variable type. like my_kudu.create_table sequence,** asked 2017-01-10 at 10:00 PM
- python | apache-arrow**
- In arrow, open '_dataset', then transfer to data.frame, show error message** asked 2017-01-10 at 10:00 PM
- In apache-arrow, when transfer to data.frame, show error message CSV conversion error in null** asked 2017-01-10 at 10:00 PM
- How to read it 1 row per array, python | parquet | pyarrow | apache-arrow** asked 2017-01-10 at 10:00 PM
- 1 row per array**
- 1 row per array**



APACHE Pony Mail

Mail Archives

Search this list...

Available projects (374):

user github commits issues Other lists (3):

Archives (2018 - 2024):

2024 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

2023 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

2022 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

2021 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

2020 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

2019 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Roxui Sun  [DUSCII] Upgrading to 64-bit row offsets in row table Hello everyone, We've identified an issue with Arrow's hash table. I found: issue while instantiating apache arrow 16.1 in centos 8 & centos 7. I'm trying to run the following code with apache arrow version 16.1 integration test for arrow flight server

Demo Demo  Hello! I am not sure if what I am asking makes sense but I am wondering if I am attempting to use the new Azure filesystem object in C++., Using the new Azure filesystem object (C++)

Gianluca Arbezzano  Jerry Adair via user Hello I am attempting to use the new Azure filesystem object in C++, .

Jerry Adair via user  CVE-2024-4178: Apache Arrow Rust Object Store: AWS Web Severity: moderate Affected versions - Apache Arrow Rust Objec t Seattle Arrow Meeting: August 13th, 2024

Andrew Lamb  Weston Pace  [DUSCII] How to add user defined functions to arrow compute Hello! I am implementing an encryption and decryption transformation.

Preetam Mandal  [DUSCII] Building a ChunkedArrow with allocation size control Hi, I would like to build a ChunkedArrow but I need to limit the max size of the chunks. Is there a way to do this?

Eric Jacobs  Benjamin Tan  [DUSCII] How to write pyarrow Tensor to file via IPC and read it back? Hi I am trying to use Apache Arrow as a way to pass tensors between

Found 37 emails by 15 authors, divided into 9 topics.

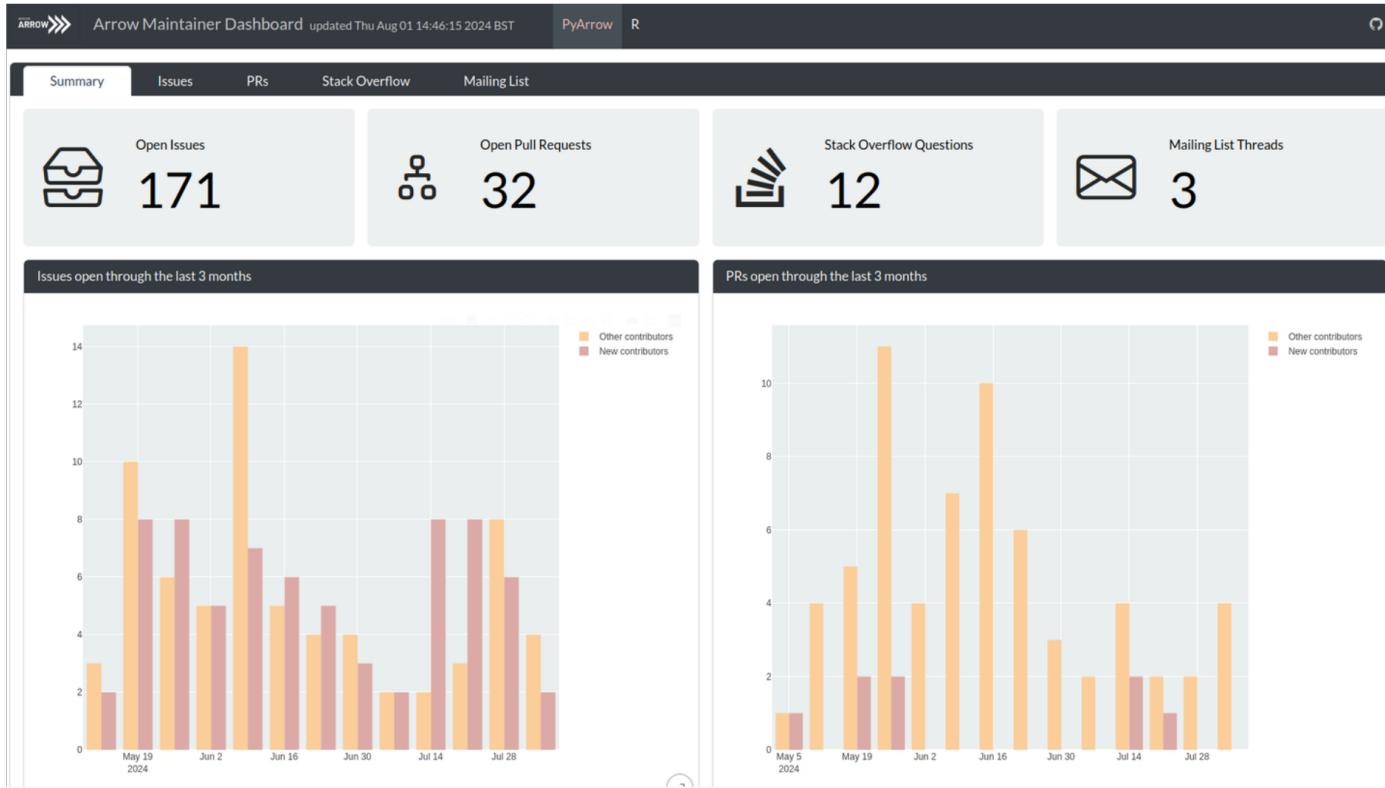
Most active authors:

- Felipe Olivete Carvalho: 6 emails sent
- Eric Jacobs: 6 emails sent
- Jerry Adair via user: 6 emails sent







[Summary](#)[Issues](#)[PRs](#)[Stack Overflow](#)[Mailing List](#)

Issues

155



Pull Requests

77



Stack Overflow Questions

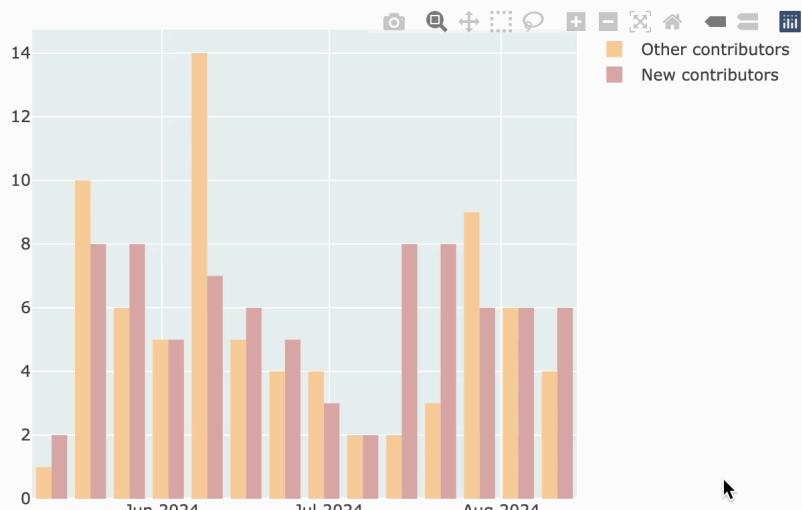
11



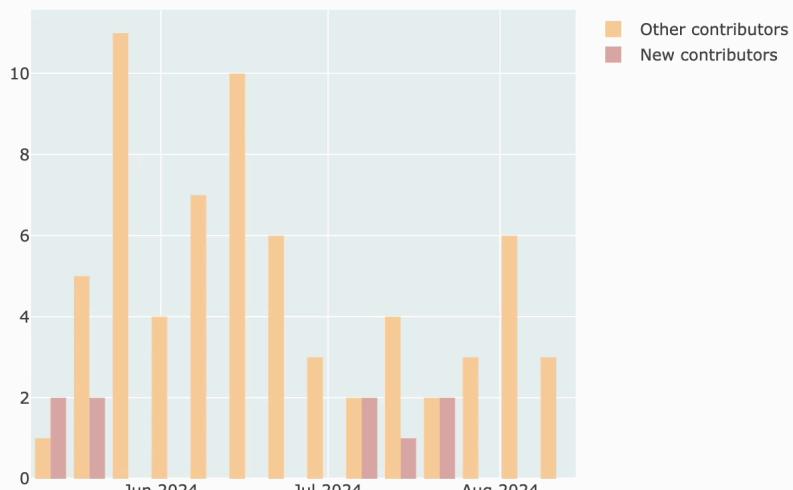
Mailing List messages

0

Issues opened through the last 3 months



PRs opened through the last 3 months





Summary

Issues

PRs

Stack Overflow

Mailing List



Issues

47



Pull Requests

36



Stack Overflow Questions

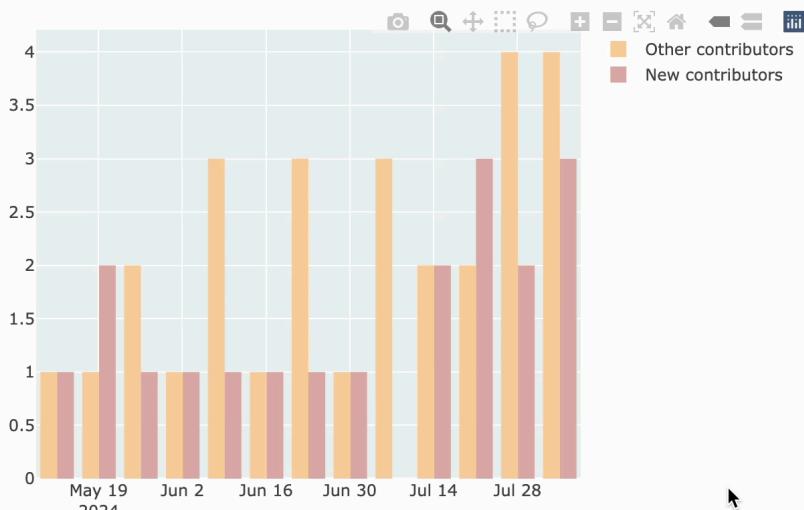
9



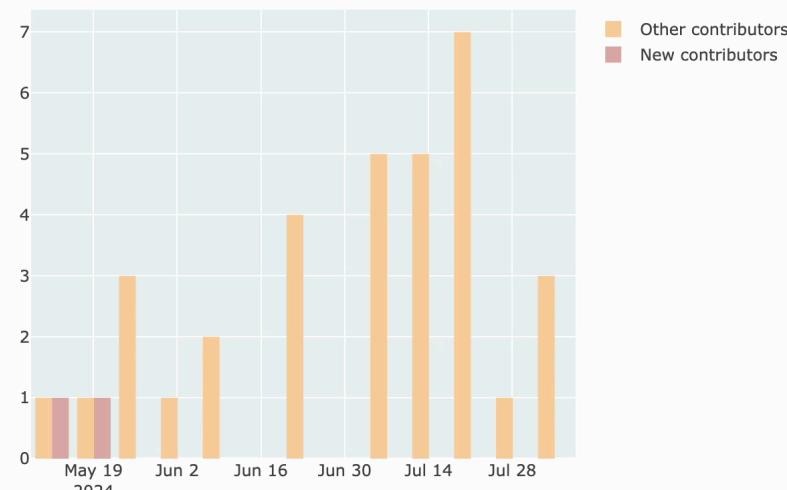
Mailing List messages

0

Issues opened through the last 3 months



PRs opened through the last 3 months





Summary

Issues

PRs

Stack Overflow

Mailing List



Issues

47



Pull Requests

36



Stack Overflow Questions

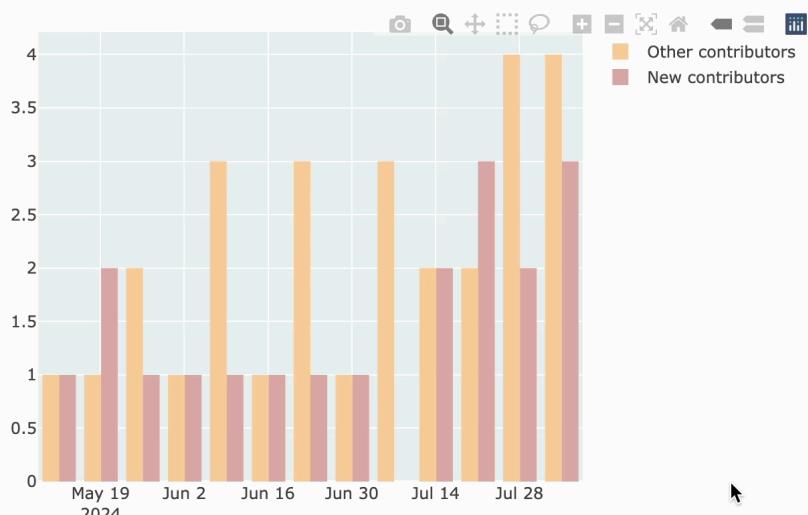
9



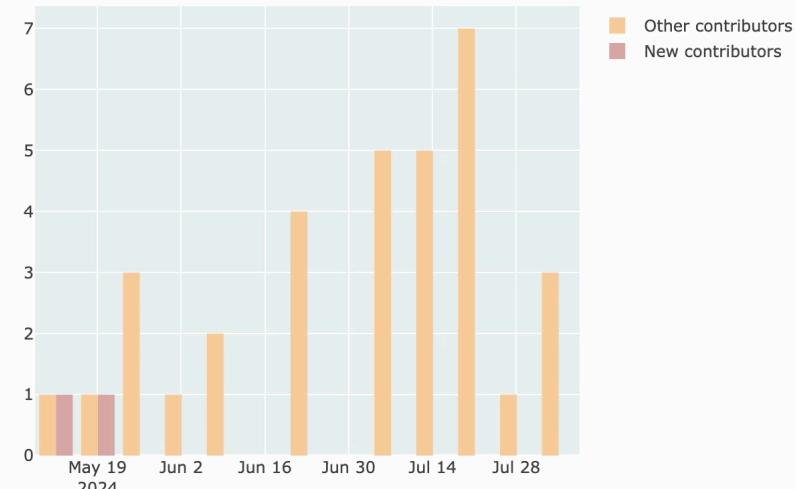
Mailing List messages

0

Issues opened through the last 3 months



PRs opened through the last 3 months



[Summary](#)[Issues](#)[PRs](#)[Stack Overflow](#)[Mailing List](#)

Open PRs

7



PRs from New Contributors

1



Unreviewed PRs

1

All open PRs, new contributors highlighted

[Copy](#)[CSV](#)[Excel](#)Search:

Date

GitHub title

GitHub link

Mon Jul 29 2024

[MINOR: \[R\] Fix monospace formatting in dplyr-funcs-doc](#)<https://github.com/apache/arrow/pull/43461>

Sat Jul 27 2024

[GH-43440: \[R\] Unable to filter a factor column with %in%](#)<https://github.com/apache/arrow/pull/43446>

Sun Jul 21 2024

[GH-43379: \[R\]\[CI\] Fix non pkg-config link order](#)<https://github.com/apache/arrow/pull/43353>

Fri Jul 19 2024

[GH-43357: \[R\] Fix some lints](#)<https://github.com/apache/arrow/pull/43338>

Thu Jul 18 2024

[DO NOT MERGE - verify cran 17.0.0](#)<https://github.com/apache/arrow/pull/43318>

Tue Jul 02 2024

[WIP: Dummy PR to check maint-17.0.0 status](#)<https://github.com/apache/arrow/pull/43113>

Thu Jun 06 2024

[GH-41973: Expose new S3 option check_directory_existence_before_creation](#)<https://github.com/apache/arrow/pull/41998>

[Summary](#)[Issues](#)[PRs](#)[Stack Overflow](#)[Mailing List](#)

Mailing list items from the last month

Showing 3 entries

Search: **Date****Email subject**

Thu Aug 01 2024

[\[DISCUSS\]\[Acero\] Upgrading to 64-bit row offsets in row table](#)

Thu Aug 01 2024

[Re: \[DISCUSS\]\[Acero\] Upgrading to 64-bit row offsets in row table](#)

Thu Aug 01 2024

[Re: \[DISCUSS\]\[Acero\] Upgrading to 64-bit row offsets in row table](#)

Guide	▼
Authoring	>
Computations	>
Tools	>
Documents	>
Presentations	>
Dashboards	▼
Overview	
Using Dashboards	>
Interactivity	>
Examples	
Websites	>
Books	>
Manuscripts	>
Interactivity	>
Publishing	>
Projects	>
Advanced	

Guide > Dashboards

Quarto Dashboards

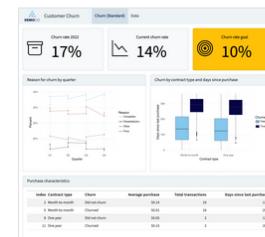
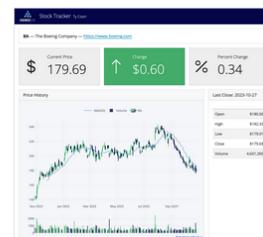
Overview

Quarto Dashboards make it easy to create interactive dashboards using Python, R, Julia, and Observable:

- Publish a group of related data visualizations as a dashboard. Use a wide variety of components including [Plotly](#), [Leaflet](#), [Jupyter Widgets](#), [htmlwidgets](#); static graphics (Matplotlib, Seaborn, ggplot2, etc.); tabular data; value boxes; and text annotations.
- Flexible and easy to specify row and column-based [Layouts](#). Components are intelligently re-sized to fill the browser and adapted for display on mobile devices.
- Author using any notebook editor ([JupyterLab](#), etc.) or in plain text markdown with any text editor ([VS Code](#), [RStudio](#), [Neovim](#), etc.)
- Dashboards can be deployed as static web pages (no special server required) or you can optionally integrate a backend [Shiny Server](#) for enhanced interactivity.

Examples

You can create highly customized layouts and use a wide variety of dashboard themes as illustrated in these examples (click to see them in more detail):



Shiny

Quarto doc

**Quarto
dashboard**

Dashboard aesthetic

Shiny



Quarto doc



**Quarto
dashboard**



Dashboard Markdown

aesthetic syntax

Shiny



Quarto doc



**Quarto
dashboard**



	Dashboard aesthetic	Markdown syntax	Deploy with GitHub Actions
--	----------------------------	------------------------	-----------------------------------

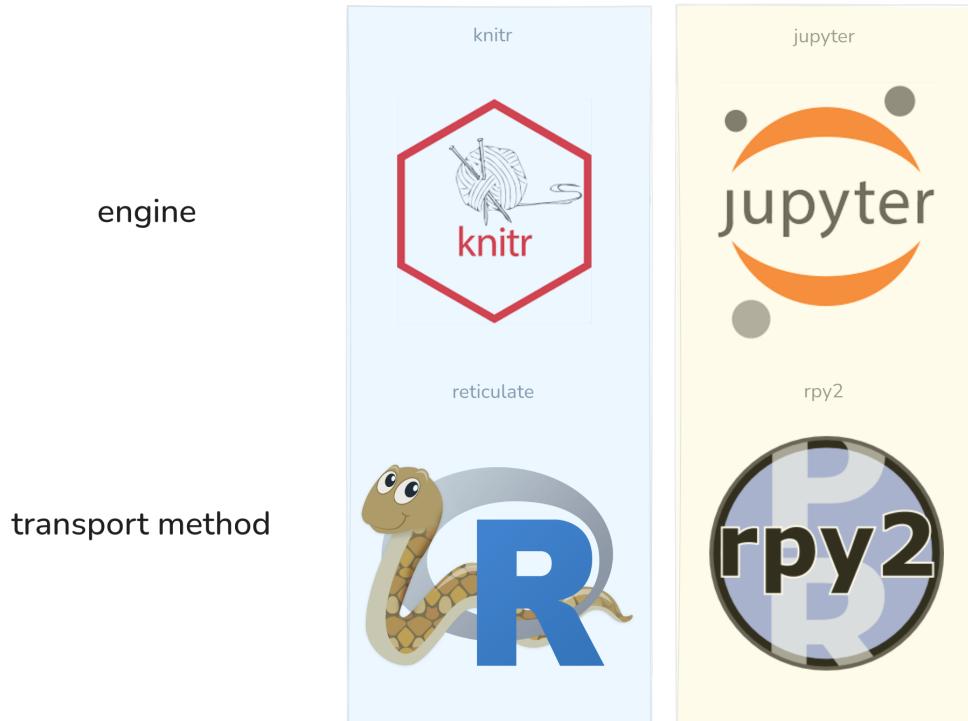
Shiny	✓	✗	✗/✓ with Shinylive
--------------	---	---	--------------------

Quarto doc	✗	✓	✓
-------------------	---	---	---

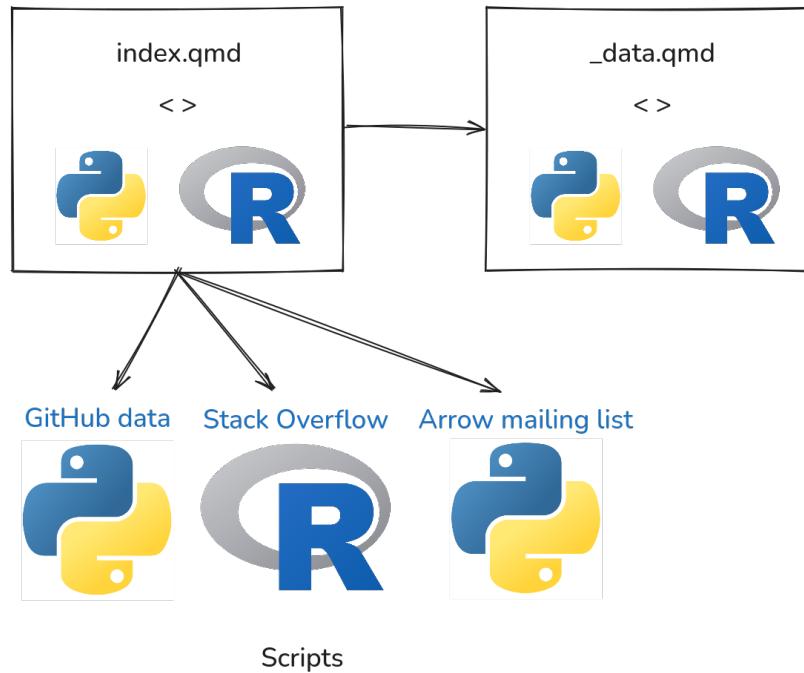
Quarto dashboard	✓	✓	✓
-------------------------	---	---	---

	Dashboard aesthetic	Markdown syntax	Deploy with GitHub Actions	Both R and Python?
Shiny	✓	✗	✗/✓ with Shinylive	✓
Quarto doc	✗	✓	✓	✓
Quarto dashboard	✓	✓	✓	✓

Combining R and Python



Combining R and Python



Quarto Includes

```
# PyArrow
```{python}
#| label: py
#| warning: false
lang = "Python"
```

```

```
{{< include _data.qmd >}}
```

```
# R
```

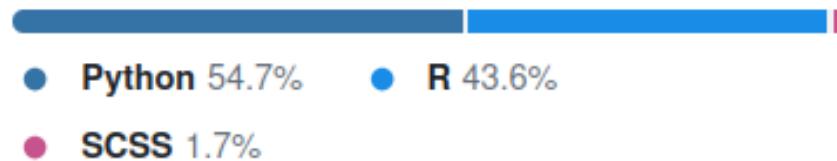
```
```{python}
#| label: r
#| warning: false
lang = "R"
```

```

```
{{< include _data.qmd >}}
```

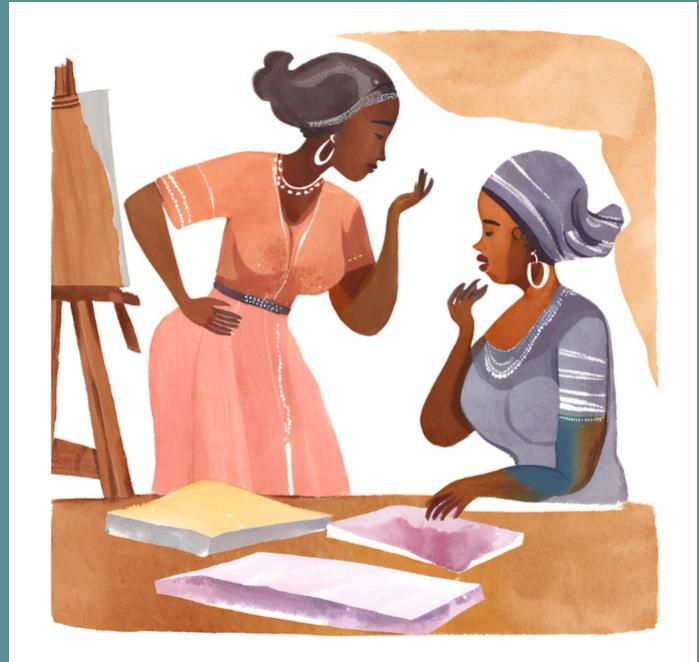
How much R and Python?

Languages



Build curiosity for technology and ideas

Honest discussions



Build curiosity for technology and ideas

Share, help, motivate!



Build diverse collaborations

Contribute
in your own way

- Different skill sets
- Choose right tools





Build diverse collaborations

- Dashboard content
- GitHub Actions
- Quarto dashboard
- Pass data around
- Python and R scripts

**Talk to
someone
today**

See what happens!

Thank you!



Dashboard



GitHub repo



Illustrations were created at canva.com