



Python in R

December 10, 2024

Python in R

Today's Co-organizer and Speaker:

Kewalin Samart

kewalin.samart@cuanschultz.edu

Adapted materials from R-Ladies Baltimore
developed by [Tiffany Timbers, PhD](#)



Volunteer signup:

<https://bit.ly/RLA-fall24volunteer>

Today's Sponsor

Who We R!?



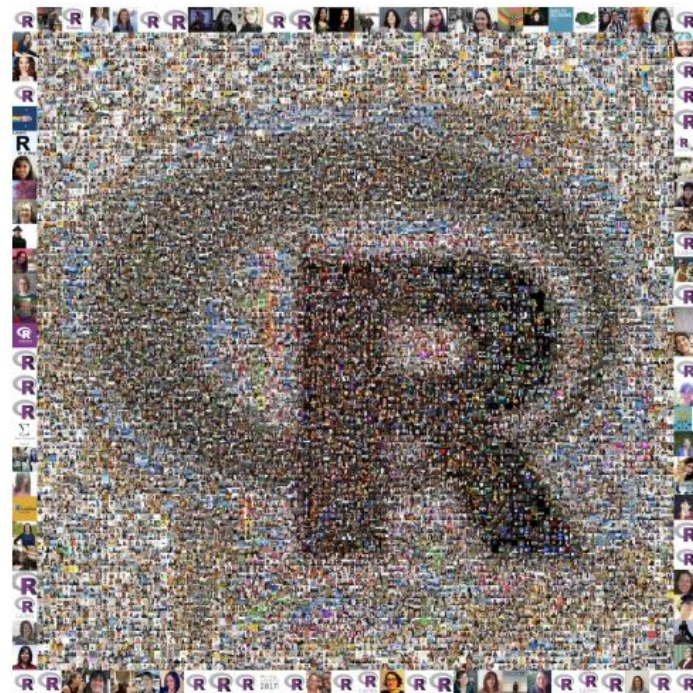
R-Ladies Kick-off Event on Jul 25, 2024



RLA Co-organizer team: Jade, Keenan, Janani, Kewalin, Stacey (left to right)



Worldwide organization that promotes **gender diversity** in the **#rstats** community via meetups and mentorship in a **friendly** and **safe** environment



Part of **R-Ladies - 240 groups**

R-Ladies Aurora

📍 Aurora, CO, USA

👥 69 members · Public group

👤 Organized by **R-Ladies Global** and **4 others**

New Members?

1. Join us, RSVP for events on **Meetup**

<https://www.meetup.com/rladies-aurora/>

2. Join our discussion forum on **Discord**

<https://bit.ly/RLA-discord>



The screenshot displays the Meetup page for R-Ladies Aurora. At the top, there's a world map with a red pin over North America and a purple pin over Colorado, with the text 'We are here!' and the R-Ladies Aurora logo. Below the map is a purple banner that reads 'Welcome to R-Ladies Aurora! a local chapter of R-Ladies Global in Colorado, USA'. To the right, the group's name 'R-Ladies Aurora' is shown with a 5-star rating (13 reviews), location 'Aurora, CO, USA', and 139 members. A 'Contact members' button is visible. Below the banner, there's a navigation bar with links: About, Events, Members, Photos, Discussions, and More. The main content area is divided into three sections: 'What we're about' with a mission statement and a 'Read more' link; 'Upcoming events (1)' featuring an event titled 'Python in R' on Tuesday, December 10, 2024, at 5:00 PM MST, with a location at P12-1203 | (first floor) Anschutz Health Sciences Building (ASHB), Colorado, CO, and a description of the 'reticulate' package. The event has 16 attendees, including KM, JY, and others, and a 'You're going!' button. The right sidebar shows 'Organizers' (R-Ladies Global and 4 others) and 'Members (139)' with a grid of member profile pictures and initials (KV, AS, TB, KM, SP).

Part of **R-Ladies - 242 groups**

R-Ladies Aurora

★★★★★ (13)

Aurora, CO, USA

139 members · Public group

Organized by **R-Ladies Global** and 4 others

Contact members

Share:

About Events Members Photos Discussions More

Create event Manage group

What we're about

Mission
R-Ladies is a worldwide organization that promotes gender diversity in the

[Read more](#)

Upcoming events (1)

[See all](#)

TUE, DEC 10, 2024, 5:00 PM MST

Python in R

P12-1203 | (first floor) Anschutz Health Sciences Building (ASHB), Colorado, CO

The **reticulate** package provides a comprehensive set of tools for interoperability between Python and R. The package includes facilities for: WHO is this for?...

16 attendees [Manage](#) [You're going!](#)

Organizers

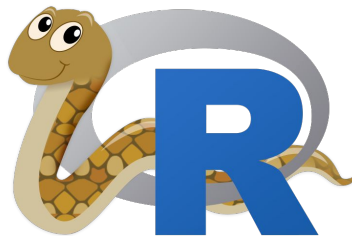
R-Ladies Global and 4 others [Message](#)

Members (139)

[See all](#)


Fall' 24 Workshops

- Intro to R Functions
- DataViz 2.0
- R Package Development
- Presenting to Non-Scientific Audiences
- **Python in R**





Presentation Materials


<https://github.com/rladies-aurora>


 rladies-aurora


Q Type ↵ to search


 Overview


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 Discussions


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 Settings

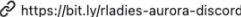



R-Ladies Aurora

 12 followers

 <https://github.com/rladies-aurora>

 <https://meetup.com/rladies-aurora>

 <https://bit.ly/rladies-aurora-discord>


 Repositories

Q Find a repository...

Type ▾


Language ▾


Sort ▾


 New


202412-Python-in-R Public


Forked from [timbers/intro-to-reticulate](#)


 HTML

 0

 MIT

 15


 0


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Updated 29 minutes ago


202411-scicomm Public

Presenting your work to non-scientists

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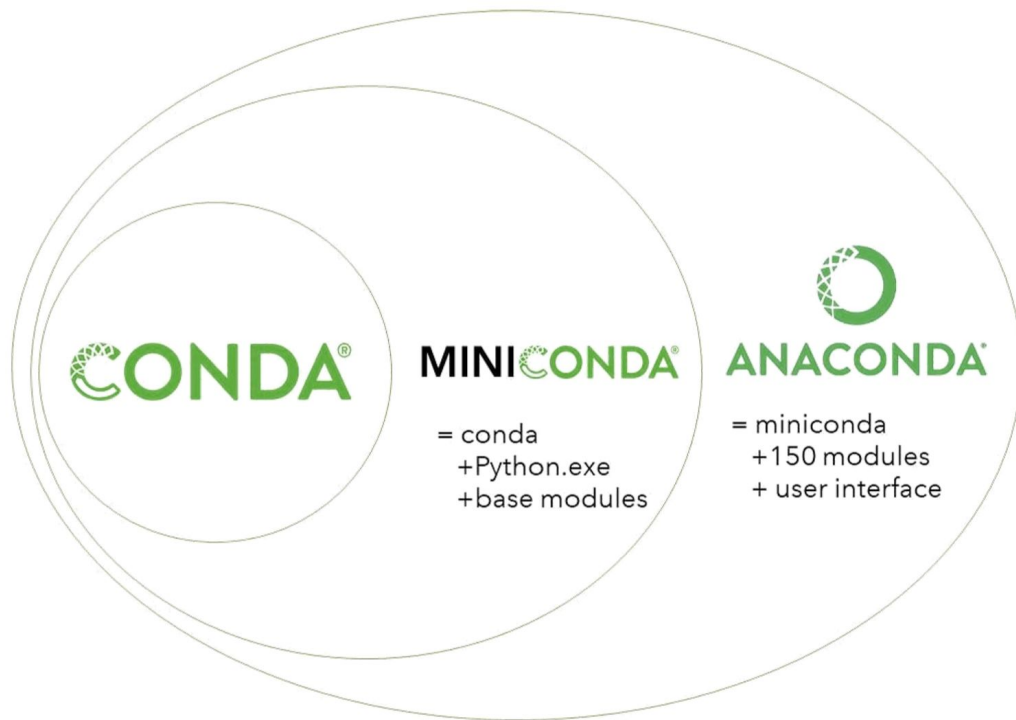
Updated 3 weeks ago

202410-rpkgdev Public

Intro | Meet & Greet

- Pizza + Sign-in  + Introduce yourself to your neighbor
 - Who you are | Name, affiliation
- **Installations:**     
 - R and Rstudio: <https://bit.ly/RLA-install-R>
 - Python, conda, and VSCode: <https://bit.ly/RLA-install-python>
- **Need help? Red sticky up! All set: Green!**

What's miniconda?



Miniconda is a minimal installer for the Conda package manager and its ecosystem. It provides a lightweight way to install Conda without bundling all the additional scientific packages included in the larger Anaconda distribution. This makes Miniconda ideal for users who want to set up customized Python or R environments without the bulk of pre-installed libraries.

Today! Dec 10, 2024

Intro to {reticulate}

+ Choosing the "best" software tool or language for the job

Demos:

- Set-up {reticulate} after installing *miniconda*
- Run Python repl in RStudio
- Create, edit and run Python scripts in RStudio
- Weaving Python into R Markdown



– Ping us on Discord with any Questions –

The data science software stack

Type of tools needed:

- Programming language
- Code editor
- Version control software

Examples:

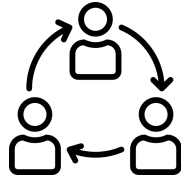


Choosing the BEST tool for the job



Reproducible and auditable

Accurate



Collaborative

{reticulate}



The reticulate package provides a comprehensive set of tools for interoperability between Python and R. The package includes facilities for:

- **Calling Python from R** in a variety of ways including R Markdown, sourcing Python scripts, importing Python modules, and using Python interactively within an R session.
- **Translation between R and Python objects** (for example, between R and Pandas data frames, or between R matrices and NumPy arrays).
- Flexible binding to different versions of Python including virtual environments and Conda environments.

Reticulate embeds a Python session within your R session, enabling seamless, high-performance interoperability. If you are an R developer that uses Python for some of your work or a member of data science team that uses both languages, reticulate can dramatically streamline your workflow!

Installations



<https://bit.ly/RLA-install-R>



<https://bit.ly/RLA-install-python>

Need help? Red sticky up! All set: Green!

Using Python in RStudio

