

Overview

Why R & Python in RStudio?

In this webinar, you will learn:

- How Data Scientists can use R & Python together in a single
 Data Science project
- How IT/DevOps can support those Data Scientists in a single development infrastructure
- How bilingual Data Science teams can efficiently collaborate and share their work with their business stakeholders



Ongoing Community Investment

Get more info



Why R & Python in RStudio?

- Help organizations realize the full value of all their Data Science investments
- Long term focus on integrating with the tools and environments that Data Scientists need. E.g.,
 - Shiny
 - Spark
 - SQL/Databases
- Now, we've expanded our Python support to help bilingual Data Science teams
 - Tensorflow integration
 - reticulate package
 - Python, Jupyter Notebooks and JupyterLab support



Common Challenges for Bilingual Data Science Teams



Data Scientists

Want to use the best tool for the job, so constantly need to switch contexts among multiple environments.



DevOps/IT

Spending time and resources to maintain, manage and scale separate environments for R and Python in a cost-effective way.



Data Science Leaders

Wrestle with how to share results consistently and deliver value to the larger organization, while providing tools for collaboration between R and Python users on their team.



Business Stakeholders

Not interested in underlying details, but simply want to leverage insights from Data Science to make better decisions.





You want the right tool for the job, but mixing R and Python requires manual translation, duplicate code, and tedious conversion.

Data Scientist





You want the right tool for the job, but mixing R and Python requires manual translation, duplicate code, and tedious conversion.

Use reticulate in RStudio to:

- Combine R & Python in R Markdown
- Source and Use Python Functions in R
- Edit and Run Python in RStudio

Data Scientist









Maintaining separate environments for each data science language is a pain - especially across desktops! Packages fail, jobs conflict, and your team scrambles to learn unsupported platforms.

DevOps / IT Admin





DevOps / IT Admin

Maintaining separate environments for each data science language is a pain - especially across desktops! Packages fail, jobs conflict, and your team scrambles to learn unsupported platforms.

Use RStudio Team to:

- Provide a single infrastructure for R & Python
- Enable users favorite tools: RStudio & Jupyter
- Configure, Integrate, Scale, and Secure once

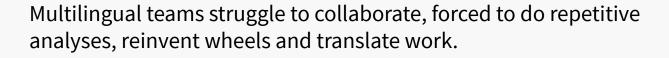








Data Science Leader



Business leaders struggle with the slow iteration time, worry about the value of their data science investment, and fall back on intuition - leading to suboptimal decisions.



Business Stakeholder





Data Science Leader



Business Stakeholder

Multilingual teams struggle to collaborate, forced to do repetitive analyses, reinvent wheels and translate work.

Business leaders struggle with the slow iteration time, worry about the value of their data science investment, and fall back on intuition - leading to suboptimal decisions.

Use RStudio Team to:

- Have multi-lingual team members collaborate and share work
- Deploy up-to-date interactive analyses, dashboards and custom reports to a central location for easy discover and controlled access
- Send custom emails with inline data science reports
- Make better decisions based on the latest information





Solving the Major Challenges for R & Python Teams



Data Scientists

- Combine R and Python in a single project
- Launch Jupyter Notebooks or JupyterLab from a single infrastructure



DevOps/IT

- Provide a single infrastructure for R & Python
- Enable users favorite tools: RStudio & Jupyter
- Configure, Integrate, Scale, and Secure ONF TIME



Data Science Leaders

- Enable collaboration across your team, maximize productivity
- Deliver regularly updated results, custom reports, and self-serve apps in a single location or via email.



Business Stakeholders

- Access up-to-date interactive analyses, dashboards and emails
- Get answers when you need them to make better decisions



RStudio Team Enterprise

Our recommended professional data science solutions for every team



RStudio Server Pro

ANALYZE DATA

Data Scientists use RStudio Server Pro to analyze data and create data products using R and Python



BUSINESS USERS

Schedule, distribute, & consume



Manage, scale, & operat



RStudio Connect

PUBLISH RESULTS

Business Users and Collaborators use data products on RStudio Connect that are published by Data Scientists



RStudio Package Manager

MANAGE PACKAGES

IT Administrators use RStudio Package Manager to control and manage R packages that Data Scientists need to create and share data products.















































Ongoing Investment in R & Python Communities













For More Information

- Overview of R & Python: A Love Story: rstudio.com/python
- <u>Contact us</u> to learn more, get answers
- Webinar recording
- Attend or livestream our conference (Jan 27-30)

- reticulate package
 - Package website
 - <u>Examples</u> and <u>Webinar</u>
- Documentation
 - RStudio Server Pro and Jupyter
 - Sharing Jupyter Notebooks in RStudio Connect
- RStudio Community



