

## Logistics

#### **Materials:**

- Recording, slides & code will be shared within 48 hours
- Shared over email and on our site: <a href="https://rstudio.com/resources/webinars/">https://rstudio.com/resources/webinars/</a>

## **Questions:**

rstd.io/rpy-qa (if asked for a code: #rstudio)

## **Sound/Connectivity Issues:**

- Hopefully, none
- But if so: log out and reconnect to GoToWebinar



# **Speakers Today**



**Lou Bajuk**Head of Product Marketing
at RStudio



**Sean Lopp**Solutions Engineer
at RStudio



# rstudio.com/python

# rstd.io/rpy-qa

(This link will point to Slido for the live webinar, RStudio Community for those watching the recording later)





## Our Mission

Create free and open-source software for data science, analytic research, and technical communication

J.J. Allaire CEO, RStudio <u>rstudio.com/pbc-keynote</u> Details of Certified B Corporation assessment at <u>https://bcorporation.net/directory/rstudio</u>



## Serious Data Science







# Leading languages





## **RStudio Team**



**RStudio** Server Pro

Analyze data and create insights using R and Python



**RStudio** Connect

Share insights with decision makers, via web applications, email or APIs



**RStudio** Package Manager

Control and manage packages that data scientists need to create and share insights



# Myth

Data science teams must standardize on one language



## **Common Concerns**



#### **Data Scientists**

Using more than one language will add lots of overhead and context switching



DevOps / IT

Two languages means 2x the infrastructure needed, and 2x support tickets



**Data Science Team Leads** 

Different languages will make it harder for my team to collaborate, re-use each other's work, and deliver that work to the rest of the organization



## In Practice



#### **Data Scientists**

Using more than one language will add lots of overhead and context switching New tools make it easy to combine R and Python in one project



DevOps / IT

Two languages means 2x the infrastructure needed, and 2x support tickets

Common infrastructure can support multiple languages and *reduce* support costs



**Data Science Team Leads** 

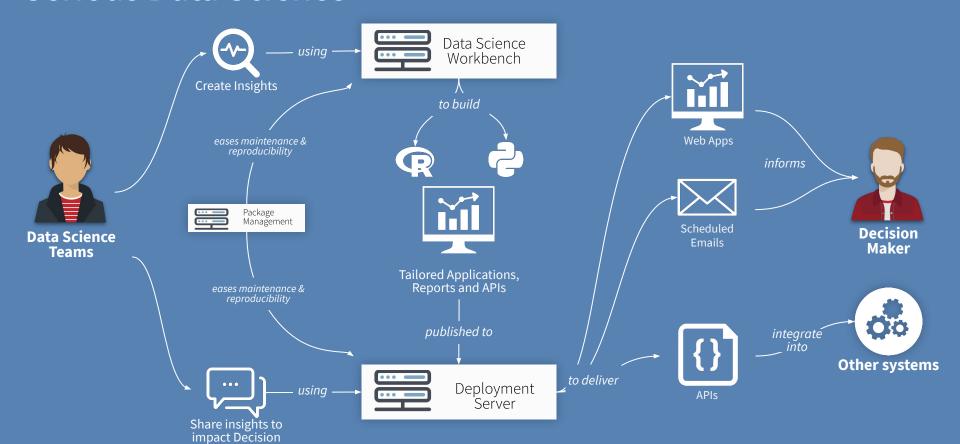
Different languages will make it harder for my team to collaborate, re-use each other's work, and deliver that work to the rest of the organization

Optimizing for people, not a single language, allows teams to hire better talent, collaborate and deliver valuable, "wow" results



## Serious Data Science

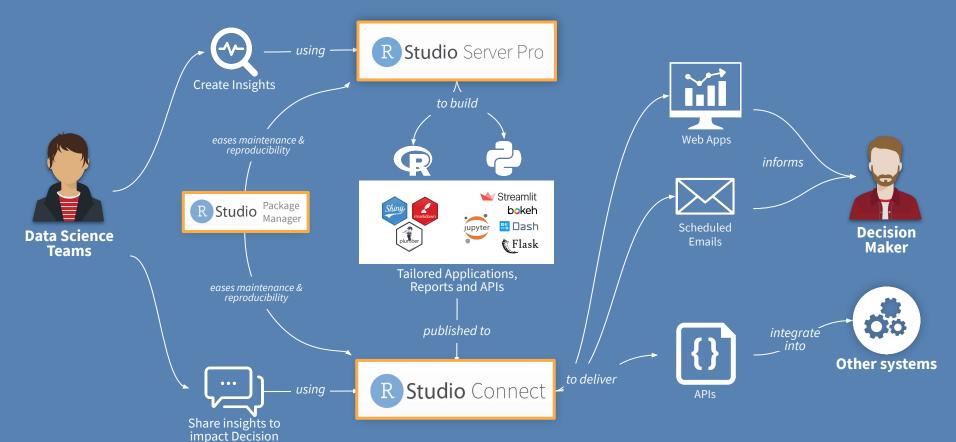
Making



Questions: rstd.io/rpy-ga

## Serious Data Science

Making



Questions: rstd.io/rpy-qa

# Demo

1. Create a R Markdown document that uses R, Python & RStudio 🧙



- Publish this reproducible document to share and schedule
- Import a Jupyter Notebook
- 4. Share model results with a Python app and a model API
- Preview Python app deployment from RStudio Workbench & VS Code

# Solving the Major Challenges for R & Python Teams



#### **Data Scientists**

- Use each language for its strength, without overhead
- Use your preferred IDE, visual editing of RMarkdown
- Deliver "wow" results



#### DevOps/IT

- Support common tools for R & Python in centralized development environments
- Operationalize both languages without doubling work



#### **Data Science Leaders**

- Optimize for people not single language
- Enable collaboration, within the team and with stakeholders
- Access wider talent pools



#### **Business Stakeholders**

- Access up-to-date interactive analyses, dashboards and emails (regardless of underlying language)
- Get answers when you need them to make better decisions



RStudio Team Enterprise

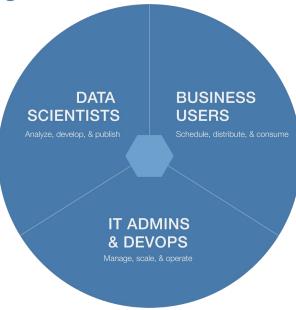
A single home for R and Python Data Science Teams



#### **RStudio** Server Pro

#### **ANALYZE DATA**

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





#### PUBLISH RESULTS

Business Users and Collaborators use R and Python 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 and Python packages that Data Scientists need to create and share data products.

Questions: rstd.io/rpy-qa

# RStudio, trusted by the world's leading brands

- Thousands of active commercial software customers.
- 59% of Fortune 100 use our commercial software
- In addition to millions of people using our open source software every week













































# R Studio Reviews on TrustRadius.com

#### **Verified Anonymous**

Analyst Real Estate Tech Company "I am more of a python user so I have a mixture of dash, flask and jupyter notebooks on RStudio. I like it because I don't have to configure a server in order to run dash or flask. I just upload and it works."

#### Carlos Celada

Business Intelligence & Pricing Manager
Millicom (Tigo)
Telecommunications

"RStudio products are great for technical teams / team members. The integration of both R and Python in a single product allows developers to make use of their preferred language for data analysis."

#### Jeff Keller Lead Data Scientist Cox Automotive, Inc

"We use RStudio Connect as a publishing platform for R and Python documents, apps, and APIs. It provides us with a professional, clean looking interface to share our work with internal clients and stakeholders."

Questions: rstd.io/rpy-qa

# Ongoing Investment in R & Python Communities



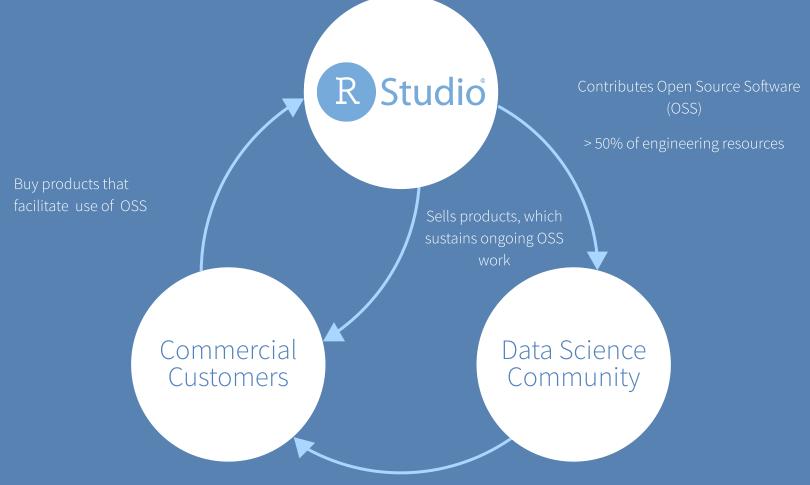












## For More Information

- Overview of R & Python: A Love
   Story: rstudio.com/python
- Recap of recent Python features
- Contact us at <u>http://rstd.io/r and python</u> to learn more, get answers
- Webinar recording
- Slides and code will be shared with attendees

- Combining R & Python in RStudio
  - <u>reticulate package website</u>
  - Examples and Webinar
- Common Home for Both Languages
  - RStudio Server Pro and Python
  - Sharing Python Content in RStudio
     Connect
- RStudio Community



# Learning Python for R users

#### Books

- Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython or Python Data Science
  - More "data first", as opposed to "programming first"

Please share your recommendations on the Community thread at <a href="http://rstd.io/rpy-qa">http://rstd.io/rpy-qa</a>



## Wrapping Up

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- Follow-up thread on RStudio Community at <a href="http://rstd.io/rpy-qa">http://rstd.io/rpy-qa</a>

### **Further Questions?**

- Robert@RStudio.com
- Sales@RStudio.com





# Questions? rstd.io/rpy-qa

(This link will point to Slido for the live webinar, RStudio Community for those watching the recording later)

Or to set up a conversation: rstd.io/r\_and\_python