



# RStudio Package Manager

---

*RStudio Package Manager is a new professional product to organize and centralize R packages across your team, department, or entire organization.\* \*\**

# RStudio Package Manager

---

*RStudio Package Manager is a new professional product to organize and centralize R packages across your team, department, or entire organization.\* \*\**

**\* Not so secret: Alpha and Beta has been available for the past year**

# RStudio Package Manager

---

*RStudio Package Manager is a new professional product to organize and centralize R packages across your team, department, or entire organization.\* \*\**

**\* Not so secret: Alpha and Beta has been available for the past year**

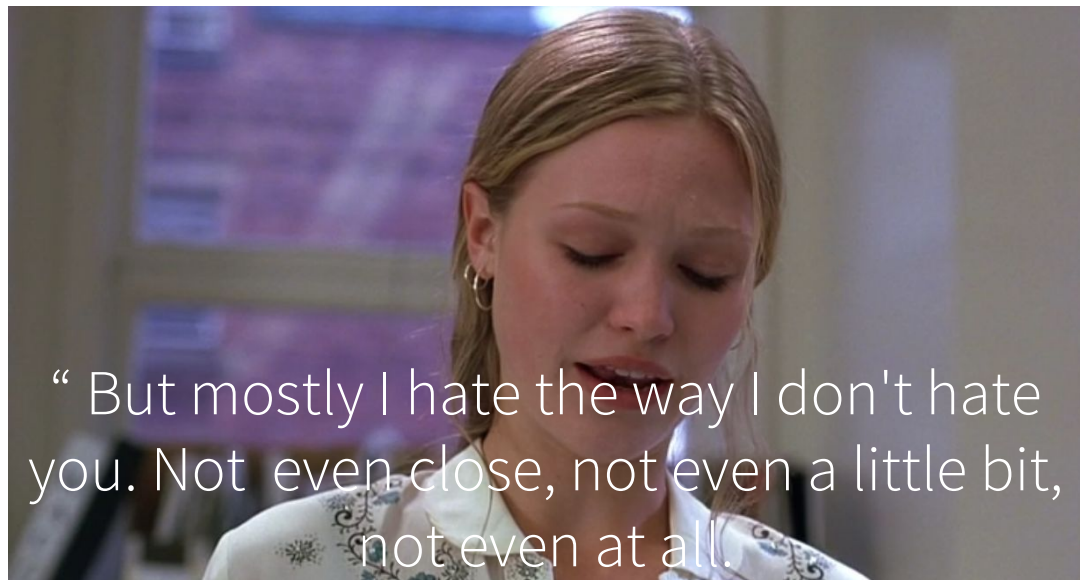
**\*\* Sneak peak at the 1.0 release coming this month**

# Game Plan

---

- Why
- Who
- What
- Where
- How
  - CRAN
  - Curated CRAN
  - Internal Packages
  - GitHub
- When

# Alternative Talk: 10 Things I Hate About R Packages





## Jr. Analyst

Just hired, but learned R in college.



Has to  
**DISCOVER**  
tribal knowledge



## Sr. Analyst

Built functions to connect to the company's database.



Wants to  
**SHARE**  
code without  
emailing files



## Statistician

Submitted validated trial results to the FDA



Needs to  
**REPRODUCE**  
results, without  
worrying about  
packages



## IT / Ops

Receives install and upgrade requests.



Goal is to  
**MAINTAIN**  
servers without  
breaking R code.



## InfoSec

Enforces legal and risk policies.



Requires  
**SECURE**  
downloads that  
meet standards

## R Packages



GitHub



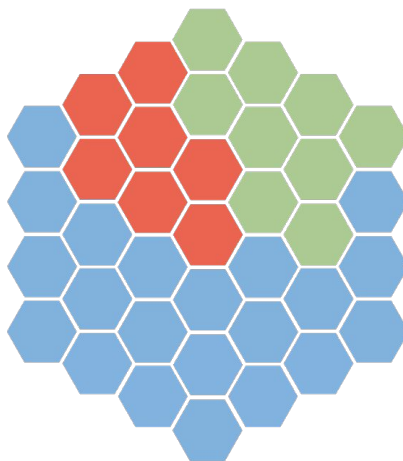
Internal



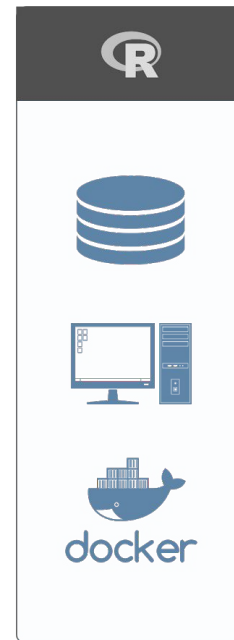
CRAN



## Administrators



## Users







CRAN, GitHub, Local Tar Files



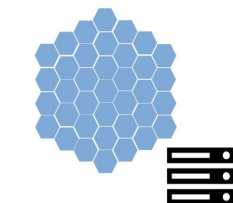
Hobbyist, Student



RStudio Package Manager



Day-to-day R User



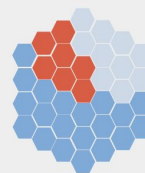
RStudio CRAN  
Package Service

Automatic Updates  
Lazy Downloads

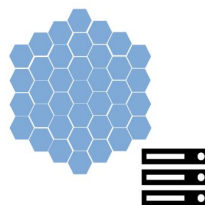


RStudio Package  
Manager “Bridge”  
Server

Corporate Network



Offline Packages



RStudio CRAN  
Package Service

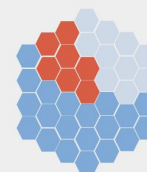
Manual Updates



Copy of RStudio  
CRAN Service



RStudio Package  
Manager Offline



Offline Packages

Offline Network

# CRAN

---

**>13K**

packages

**~30**

updates / day

# Using Repository Versioning

---

FROM ubuntu

RUN apt-get install \

...

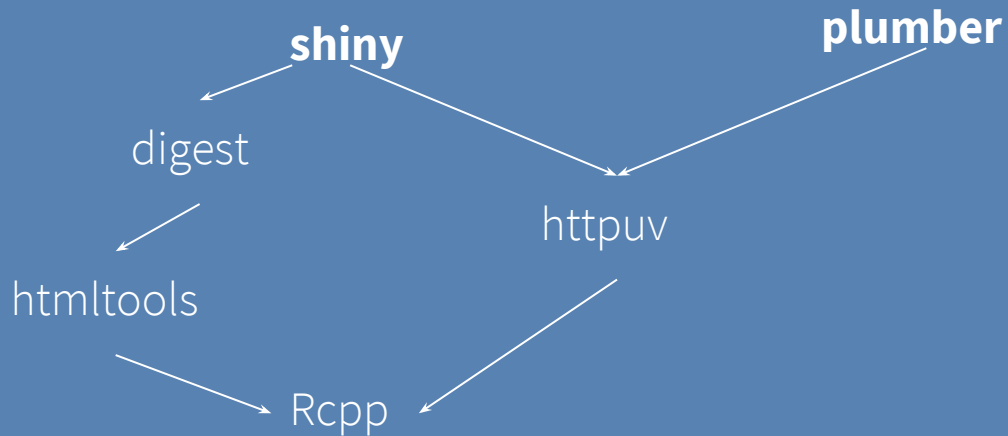
~~RUN R -e 'install.packages(...)~~

RUN R -e 'install.packages( ... ,  
          repos = "<https://r-pkgs.example.com/cran/189>")'

CMD <some process>

# Curated CRAN

---



# Internal Packages

---

**devtools::install\_github ?**

# Summary

---

- **Organize** packages in a central repository
- Automatic **versioning**
- Track usage **metrics**
- **Integrated** with R, RStudio, RStudio Connect
- **CRAN, curated CRAN , local packages, Git(Hub)**

The details...

---

**[rstudio.com/package-manager](https://rstudio.com/package-manager)**





Questions?