R
Studio®

Validation Guidance Documents

Shiny and R Markdown

RStudio packages for web applications and reporting

tidyverse, tidymodels, r-lib, gt

RStudio affiliated analysis packages that share validated design principles and practices

RStudio Team

The premiere software bundle for data science teams

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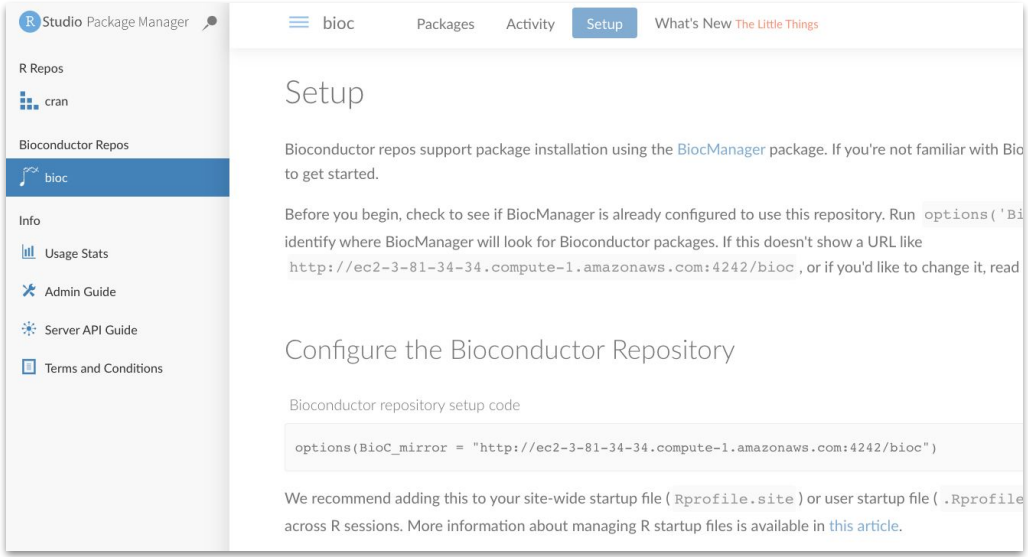
- Goal is to position some packages as trusted sources
- And emphasize the benefits of open source software for trustworthy and reproducible science

Bioconductor Support in RStudio Package Manager



- Offline or controlled access to Bioconductor

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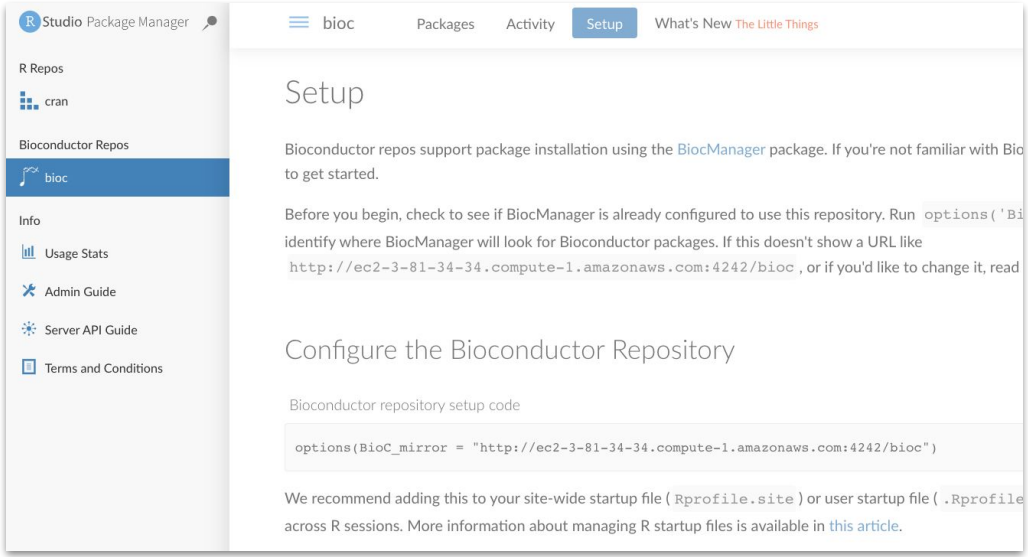

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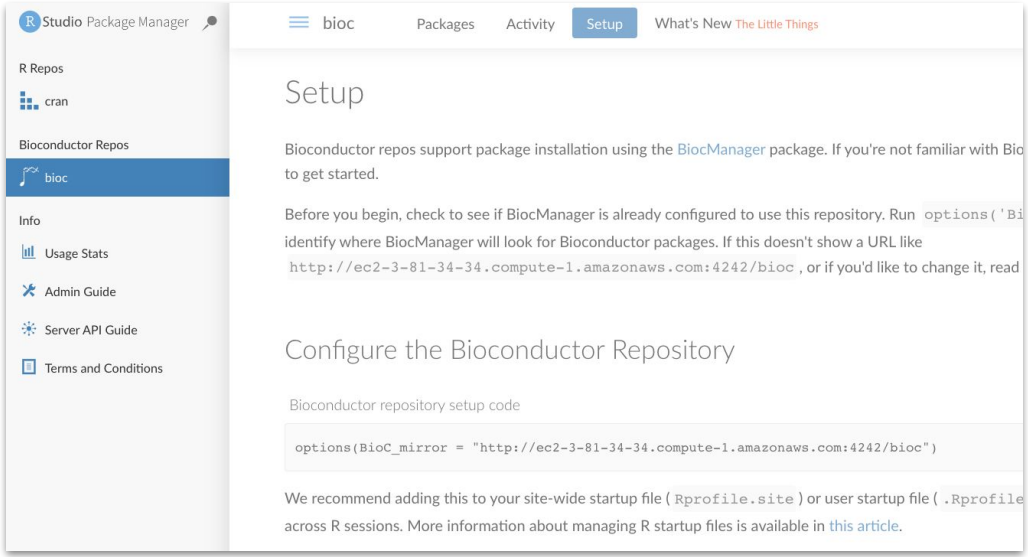

- Offline or controlled access to Bioconductor
- Compatible with BiocManager or install.packages
- Rectifies the tension between Bioc Releases & CRAN's rolling updates

RTF support in gt

```
table <- gt(data, groupname_col = "group") %>%
  fmt(
    rows = group == "Completed",
    columns = c("Placebo", "Low Dose", "High Dose", "Total"),
    fns = function(x) {sprintf("%d (%g%%)", x, round(x/254*100,0))}
  ) %>%
  summary_rows(
    groups = c("Early Termination"),
    columns = c("Placebo", "Low Dose", "High Dose", "Total"),
    fns = list(
      `Total` = ~sum(., na.rm = TRUE)
    ),
    formatter = fmt_number,
    decimals = 0
  ) %>%
  grand_summary_rows(
    columns = c("Placebo", "Low Dose", "High Dose", "Total"),
    fns = list(
      `Total in Trial` = ~sum(., na.rm = TRUE)
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```

- Write code once

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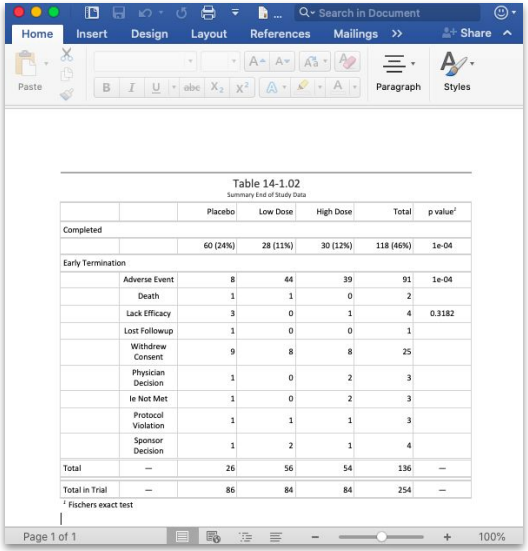

- Write code once
- Render to RTF
  (for current work)

RTF support in gt

```
19 table <- gt(data, groupname_col = "group") %>%
20   fmt(
21     rows = group == "Completed",
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30     ),
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32     decimals = 0
33   ) %>%
34   grand_summary_rows(
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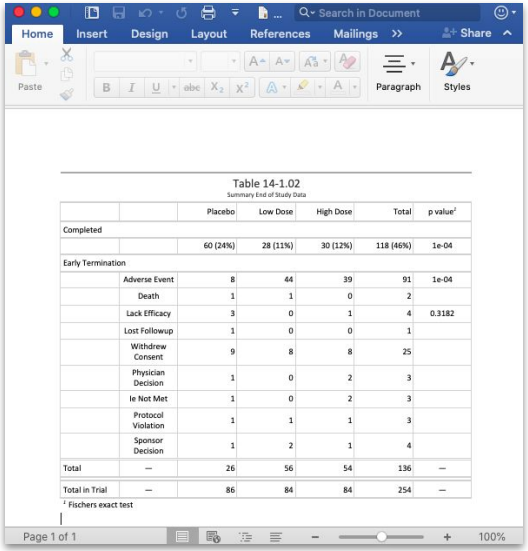

Table 14-1.02
Summary End of Study Data

		Placebo	Low Dose	High Dose	Total	p value[†]
Completed						
		60 (24%)	28 (11%)	30 (12%)	118 (46%)	1e-04
Early Termination						
	Adverse Event	8	44	39	91	1e-04
	Death	1	1	0	2	
	Lack Efficacy	3	0	1	4	0.3182
	Lost Followup	1	0	0	1	
	Withdrew Consent	9	8	8	25	
	Physician Decision	1	0	2	3	
	Ie Not Met	1	0	2	3	
	Protocol Violation	1	1	1	3	
	Sponsor Decision	1	2	1	4	
Total	—	26	56	54	136	—
Total in Trial	—	86	84	84	254	—

[†] Fischers exact test

- Write code once
- Render to RTF
  (for current work)
- Render to HTML
  (for the shiny future)

References

Validation documents available at the bottom of this page

Follow the RStudio blog for the RStudio Package Manager Release with Bioconductor support or visit the Public RStudio Package Manager

gt package with RTF support