BioMarin R Training Roadmap



pdf slides

Other topics & packages covered:



Tibbles vs. data frames



Introduction to RStudio, file naming, and projects.

pdf slides

Other topics & packages covered:



Reproducible examples with reprex and



Introduction to reproducible reports (YAML, markdown, knitr, and pandoc).

pdf slides html slides exercises

RStudio.Cloud project

Sent as PDFs (not delivered as training)

Other topics & packages covered:





Create multiple file outputs with .Rmd and knitr

Introduction to Data Manipulation

Common data manipulation tasks, dplyr's verbs, the pipe (%>%).

pdf slides

html slides

RStudio.Cloud project

Other topics & packages covered:





Write clearer code with pipelines, logical string detection with filter()



Data Transformation & Joins

Pivoting data, multiple table joins, manipulating columns and rows.

Other topics & packages covered:





Rename columns, reproducible file management



Advanced Data Manipulations

Conditional mutations, create multiple columns at once, and missing data.

Other topics & packages covered:





Dealing with date/times, standardizing column names, etc.



Data Visualization

Introduction to the grammar of graphics, aesthetics, and themes.

Other topics & packages covered:



Repel text labels, ggthemes, etc.



Data Dashboards

Introduction to shiny and flexdashboards.

Other topics & packages covered:





plotly Create interactive dashboards with R Markdown, shiny, and plotly.