

Harnessing the Power of Nivo React in R/Shiny: A Guide to Building Custom Shiny Packages with reactR.

Keywords: R/Shiny, React.js, Data Visualization, Data Analysis, reactR, nivo

Abstract:

R/Shiny, a popular web application framework, empowers data scientists and developers to create interactive data visualizations and dashboards. While Shiny offers a wide range of built-in components, extending its capabilities with third-party libraries can unlock even more possibilities. One such library is Nivo React, a powerful charting and visualization library that offers an extensive collection of customizable and interactive data visualizations.

This presentation aims to demonstrate how to leverage the capabilities of Nivo React within R/Shiny applications by converting it into a custom Shiny package using the reactR package. The reactR package seamlessly integrates React components into Shiny, allowing for a seamless combination of R's analytical power and React's rich visualizations.

The session will begin with an introduction to Nivo React and its key features. We will then dive into the process of building a custom Shiny package that incorporates Nivo React components. Attendees will learn how to set up the Shiny package structure, install the necessary packages, and define wrapper functions to encapsulate Nivo React components within the R environment.

Through step-by-step demonstrations, we will guide attendees in constructing their own Nivo React-based Shiny package. We will cover topics such as defining component props, handling interactivity between R and React components, and best practices for optimizing performance.

Furthermore, we will explore real-world examples showcasing the power of Nivo React in various data visualization scenarios. From dynamic and responsive charts to sophisticated maps and diagrams, attendees will gain insights into how Nivo React can elevate the visual storytelling capabilities of their Shiny applications.

By the end of this session, attendees will have a solid understanding of how to integrate Nivo React into their R/Shiny workflows using a custom Shiny package. They will be equipped with the knowledge and tools necessary to create visually stunning and interactive data visualizations that seamlessly combine the analytical prowess of R with the engaging visualization capabilities of Nivo React.

Join us in this session to unlock the potential of Nivo React and revolutionize your R/Shiny applications with captivating data visualizations.

Life demo: <https://nolik2k.shinyapps.io/nivoRexample>