ToOoOlTiPs: An R package for Customizable Tooltips in Interactive Graphics

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Abstract An abstract of less than 150 words.

Introduction

Interactive graphics is a type of visualization that allows users to interactively inspect a plot. One of the most basic interactivity is through tooltips, where users can request additional information about a plot element by mouse hovering ...

This paper will first review some R packages on interactive graphics and their tooltip implementations. Next, a new package ToOoOITiPs will be proposed for customizing tooltips. Some gallery plots will then be given to showcase how these tooltips help users to better read the graphics.

Literature review

Some packages on interactive graphics include **plotly** (Sievert, 2020) that interfaces with Javascript for web-based interactive graphics, **crosstalk** (Cheng and Sievert, 2021) that specializes cross-linking elements across individual graphics, and most recently, **tsibbletalk** (Wang and Cook, 2021) for working with time series data in a tsibble structure . . .

Customizing tooltip design with ToOoOlTiPs

ToOoOlTiPs is a packages for customizing tooltips in interactive graphics, it features ...

A gallery of tooltips

We first show a baseline plot, in Figure 1, made by the **plotly** package with **palmerpenguins** data (Horst et al., 2020).

Now we will re-create the same plot using the ToOoOlTiPs package for different tooltips designs

Summary

We have displayed various tooltips that are available in the package **ToOoOlTiPs**. These tooltips ...

Bibliography

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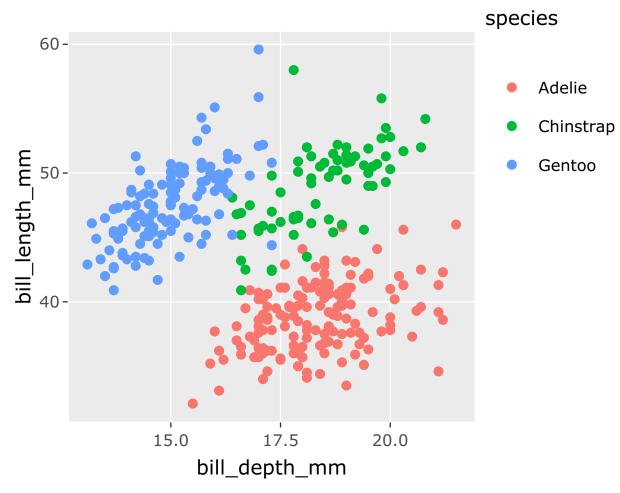


Figure 1: A basic interactive plot made with the plotly package on palmer penguin data. Three species of penguins are plotted with bill depth on the x-axis and bill length on the y-axis. When hovering on a point, a tooltip will show the exact value of the bill depth and length for that point, along with the species name.

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