

# iheatmapr: Interactive complex heatmaps in R

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## Software

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## Summary

The `iheatmapr` package is an R package (Team 2000) for creating complex, interactive heatmaps. Heatmaps are commonly used to visualize patterns in high-dimensional data, particularly in genomics research. Adding annotations and summary plots along the rows or columns of a heatmap can enhance a heatmap visualization. Pairing several heatmaps horizontally can enable association of data across multiple assays. Adding interactive features like tooltips and zooming can further enhance these complex heatmaps, enabling information-rich visualizations linking diverse, high-dimensional data sets.

There are great tools in R for creating simple interactive heatmaps (Galili 2016, Cheng and Galili (2016)) or creating static complex heatmaps (Gu, Eils, and Schlesner 2016). However, there are no tools facilitating the creation of complex, interactive heatmaps. The `iheatmapr` package fills this gap, enabling creation of highly customizable, interactive, complex heatmaps using the `plotly` library (Sievert et al. 2016). The resulting interactive visualizations can easily be incorporated into reproducible R Markdown reports for sharing with collaborators.

## References

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