Liberate Your Time: Accelerate With R

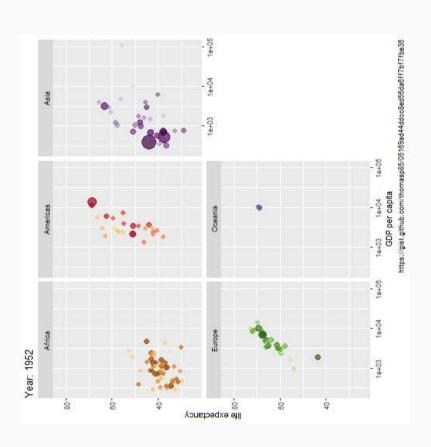
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Highlights and Examples

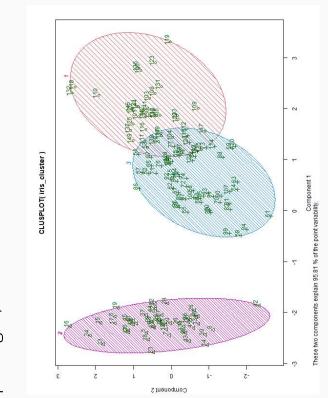
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So Many Project Ideas, Not Enough Time!

Fancy Visualizations (gganimate)



Fancy Machine Learning (lots of R packages):



It can be quite hard to find the time to explore and enhance

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Objective

Scope

- Demonstrate a few examples of leveraging a tool like R to speed up processes.
- Highlight key R packages and brief overview of the code flow.
- Spur curiosity and ideas.
- If you think, "Hey, I can do that better, or I might tweak that a bit." That's Great!

Overview

- Getting Data
- Wrangling Data
- Text File Creation
- Excel File Creation
- Multiple HTML/PDF Files Creation
- Discussion and Q&A

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College of Southern Idaho (CSI)

Analytics and Institutional Research (AIR) Team

• FTE: 2.5 to 3.0

Scope: Decision support, business intelligence, data-related compliance. Teamwork with IT on data governance.

Implemented Software

Jenzabar EX ERP / SIS

Microsoft SQL Server

No Enterprise Data Warehouse

Power BI

These solutions should be agnostic to the software used at most institutions

Live Coding Session



Notes

Limitations

- Reporting requirement changes.
- Business process changes.
- Software changes.

Outcomes

This work has allowed for... (team effort big time!!!)

- Implementation of fairly wide-spread business intelligence usage
- https://www.csi.edu/institutional-effectiveness/institutional-research/data-at-a- Promptly keeping up with new requirements (e.g. NWCCU disaggregation) glance/default.aspx
- Predictive analytics and implementation with stakeholders.
- Beginning of data literacy training.
- Improving institution-wide data documentation.

Conclusion

https://github.com/ThomasSharpeISU/AccelerateWithRAIR2023



Discussion and Q&A