

# Learn to analyze data with R and Tableau!

## R is a powerful language for data analysis

- R is the de facto language for quantitative researchers.
- Easy to learn, even with no previous programming experience.
- Packages like dplyr, ggplot2, and R Markdown make it easy to use Python for statistical computing tasks.
- A large online community with many resources is available in case you need help.



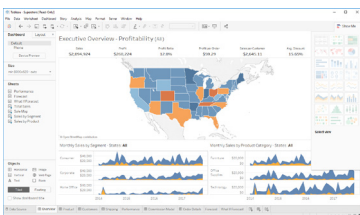
## Tableau helps visualize your data



- Tableau is a widely used platform for data analysis and business intelligence.
- Its pivot and organization features allow users to explore their data to look for patterns and trends.
- Tableau helps visualize and share data in forms that are easy for everyone to understand.

## R and Tableau skills are in-demand

- R is ranked as the #2 programming language to learn in 2018 by *TechRepublic*, a publication for IT professionals.
- R and Tableau help corporations like Google, IBM, REI, and PepsiCo perform data analysis and visualization.



## Learn R and Tableau with CS 293A

- CS293A is a 3-credit course that teaches what you need to know to code with R and visualize data with Tableau.
- No previous programming experience is required.

Learn more at [cs101.wvu.edu/r](https://cs101.wvu.edu/r)

## **About Computer Science 293A**

3 credits

No prerequisites

## **What you'll learn in CS293A**

R is an easy-to-use programming language for statistical computing. Tableau is a powerful tool for data analysis and visualization. In CS293A, you'll learn how to:

- Use decision structures like If statements
- Write For and While loops
- Organize data with vectors, matrices, factors, and dataframes
- Filter and subset data
- Create and use functions
- Read and write files
- Manipulate strings
- Use packages and external libraries
- Perform regression analysis
- Visualize data with Tableau and ggplot2

## **Who should take CS293A**

R programming skills can benefit many students. Consider taking CS293A if you:

- Want to learn how to program
- Have large datasets to analyze for your research or work
- Wish to learn valuable skills that employers want
- Are interested in Computer Science as a major or minor