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S O F T W A R E



Fast Analytics for Everyone

Tableau Desktop

Business Intelligence

Tableau Server

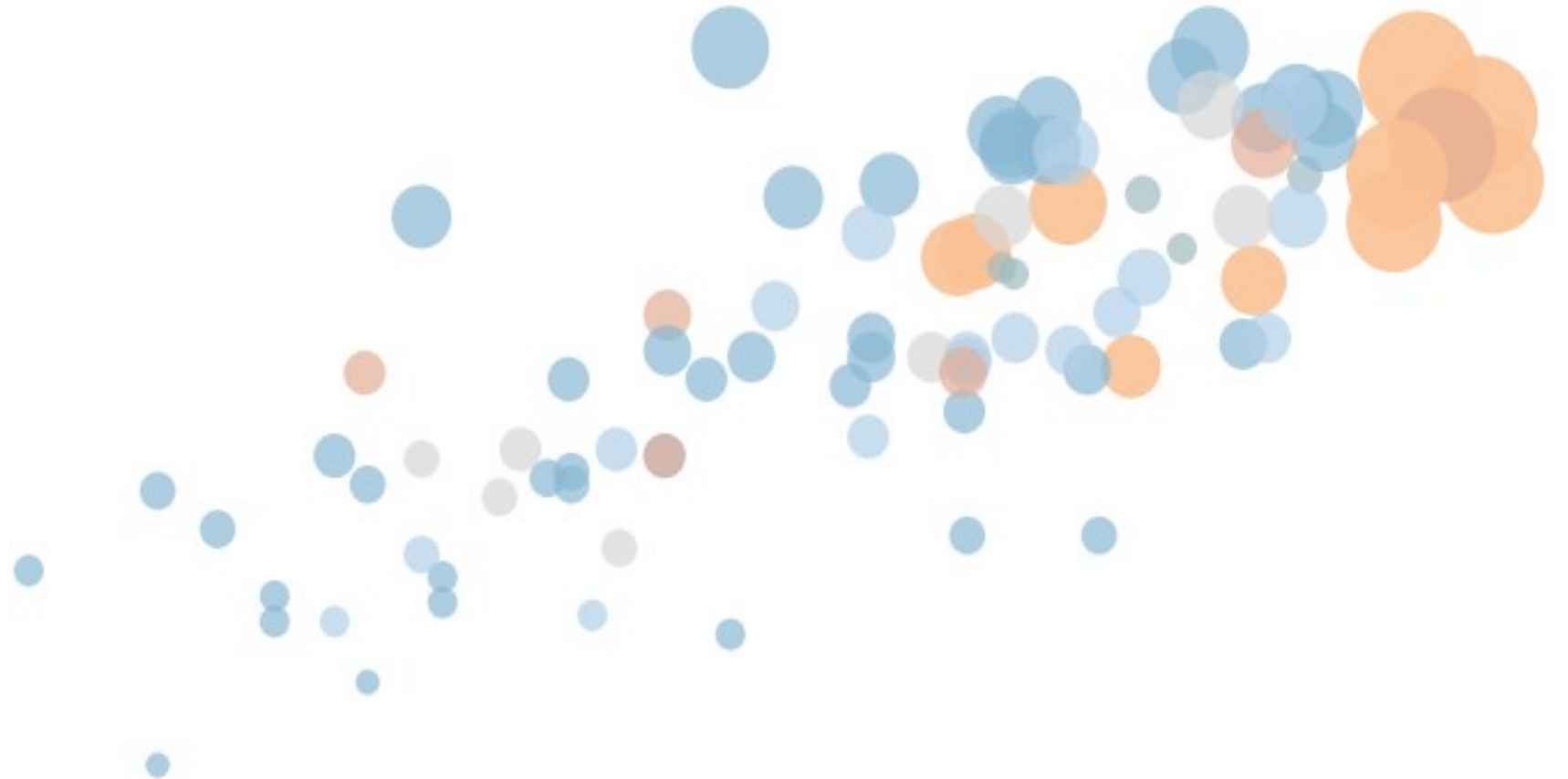
Storytelling on the Web

Tableau Digital

What's New in Tableau 7.0

Game-changing features

Data Visualization



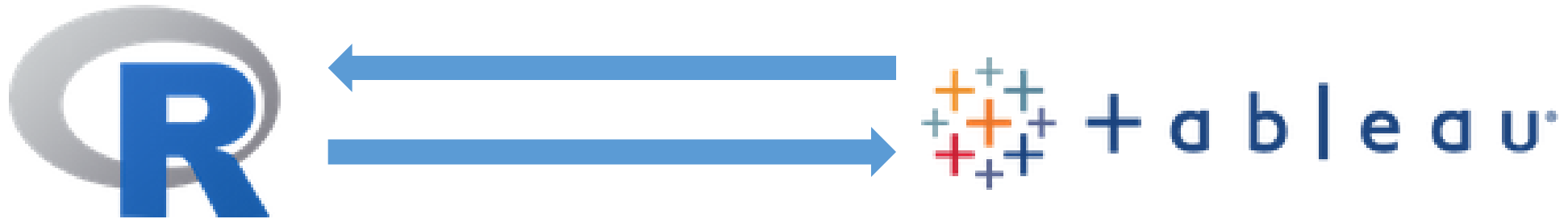
Objectives

- Tableau and R integration
- Examples

Introduction to Tableau and R Integration

- What are the benefits of using Tableau and R integration?

Access R packages or functions for quantitative analysis



Take advantages of Tableau's data visualization capacities

Introduction to Tableau and R Integration

- How is Tableau integrating with R?

- Install Rserve Package

```
install.packages("Rserve")  
library(Rserve)  
Rserve()
```

- Tableau → Help → Setting and Performance -> Manage External Service Connection → Give 127.0.0.1 and Port.No:6311 and testconnection → it will gives success connection

- Create Calculation Field in Tableau

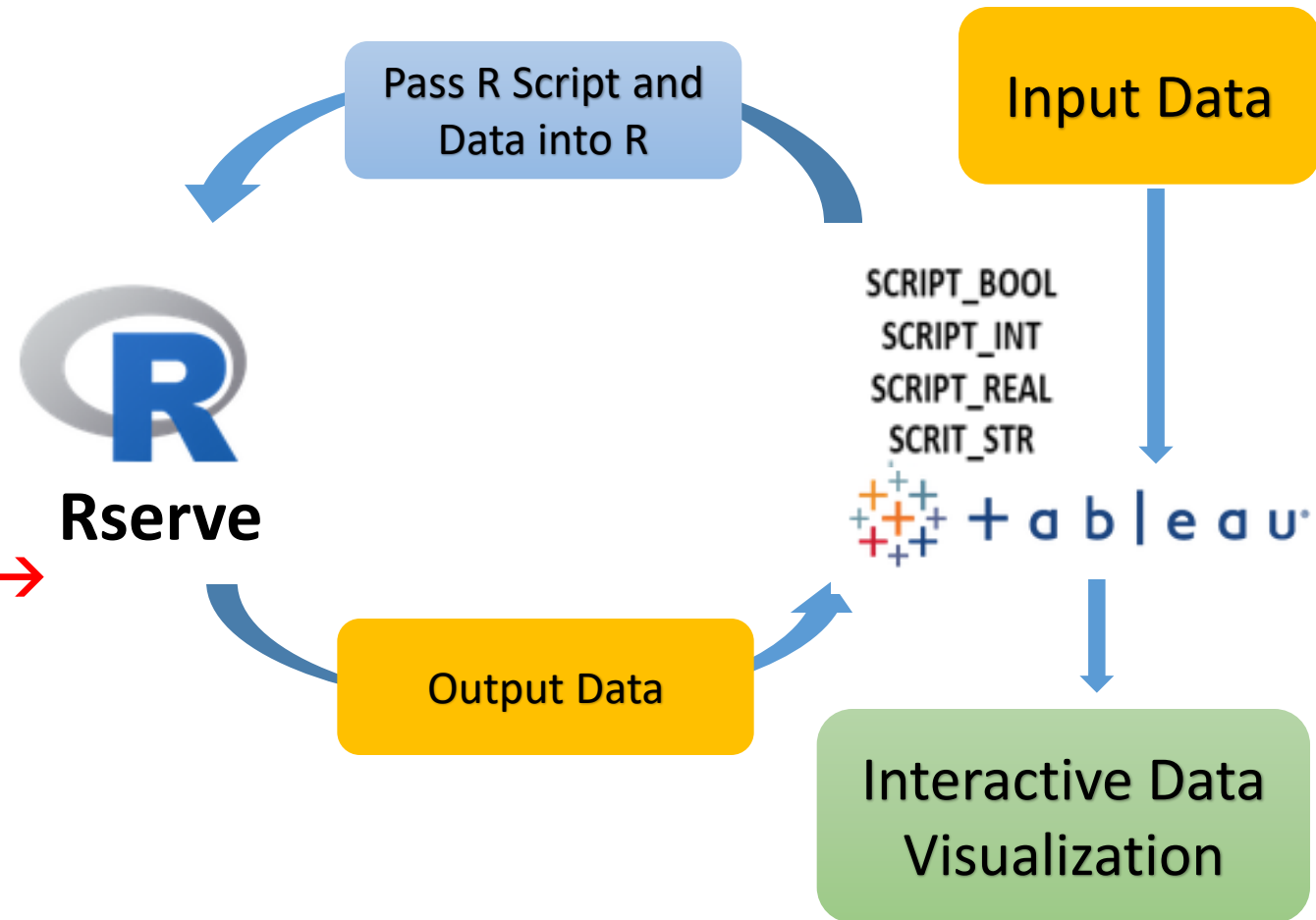
- Use one of the four functions:

SCRIPT_BOOL: Return a Boolean

SCRIPT_INT: Return an Integer

SCRIPT_REAL: Return a Real

SCRIPT_STR: Return a String



Introduction to Tableau and R Integration

- How Tableau sends Data to R:
 - Uses `SCRIPT_*`() → work as a table calculation. It requires aggregate functions.
 - If the data is not in aggregate manner → wrap it up.

K-Mean Clustering coding for Iris dataset 4 parameters with 3 clusters.

- `SCRIPT_INT('set.seed(42);result <-
kmeans(data.frame(.arg1,.arg2,.arg3,.arg4), 3);result$cluster;', SUM([F1]),
SUM([F2]),SUM([F3]),SUM([F4]))`

Questions?



THANK YOU