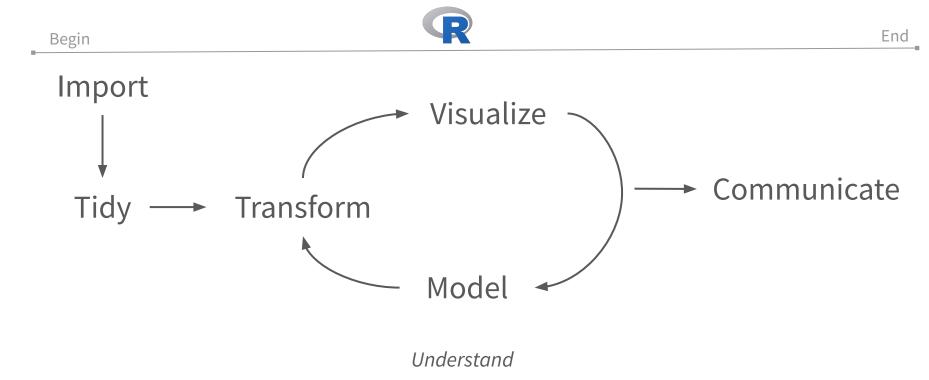
Getting Started with R and Spark

Edgar Ruiz

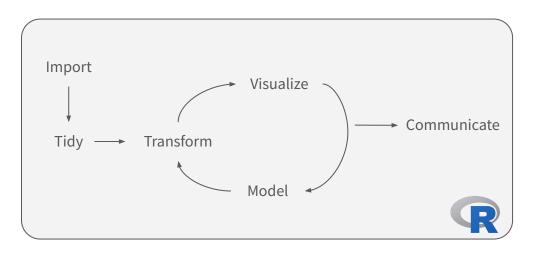
github.com/edgararuiz twitter.com/theotheredgar linkedin.com/in/edgararuiz

Data Science Workflow



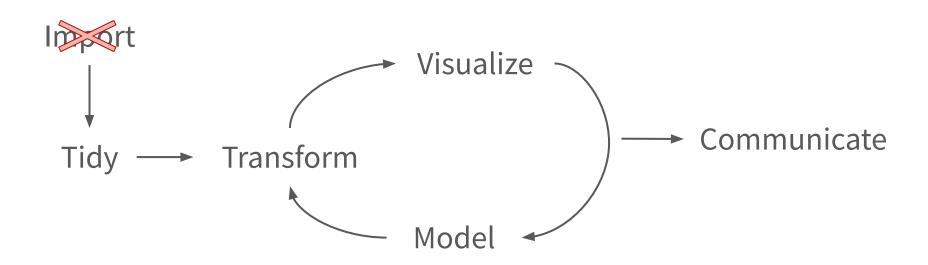
R for Data Science - Grolemund & Wickham

A single laptop handles "small data" easy



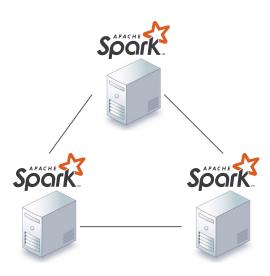
My laptop

What about data larger than memory or disk?



What is Spark?

- Allows the ability to work with data larger than disk or memory
- Interact with and manipulate data via SQL
- Has additional data transformators that go beyond SQL
- Has a robust set of Machine Learning routines
- Allows the creation of formal modeling pipelines
- Unlike DB's, Spark allows for easy in-memory data caching

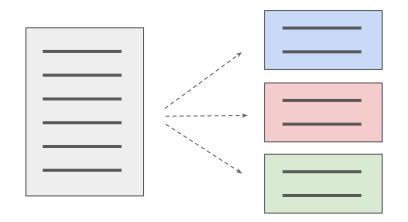


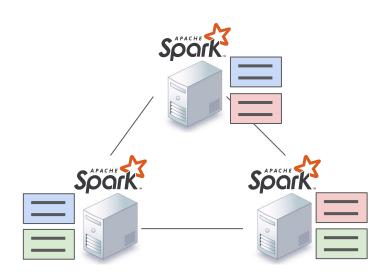
How does Spark work?

Original large data file

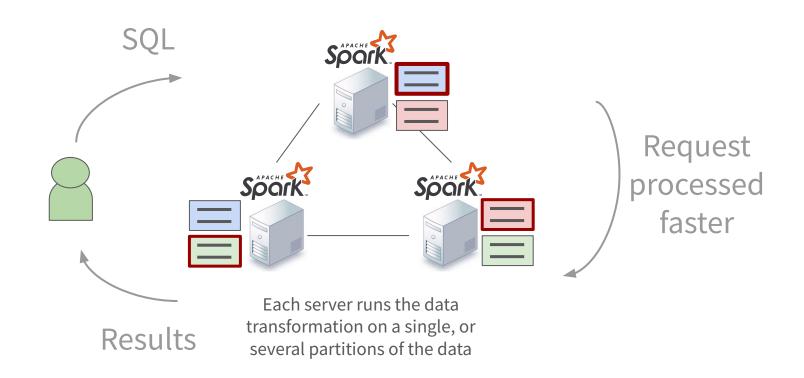
File is partitioned logically

One or several partitions are sent to each server's **memory** in the cluster

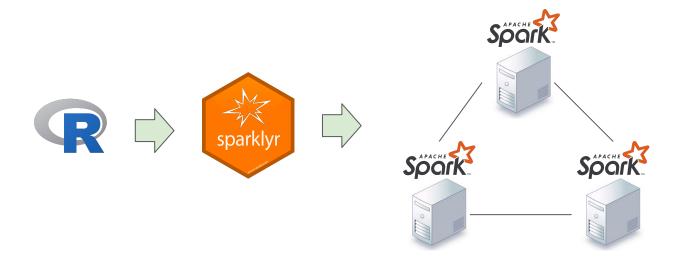




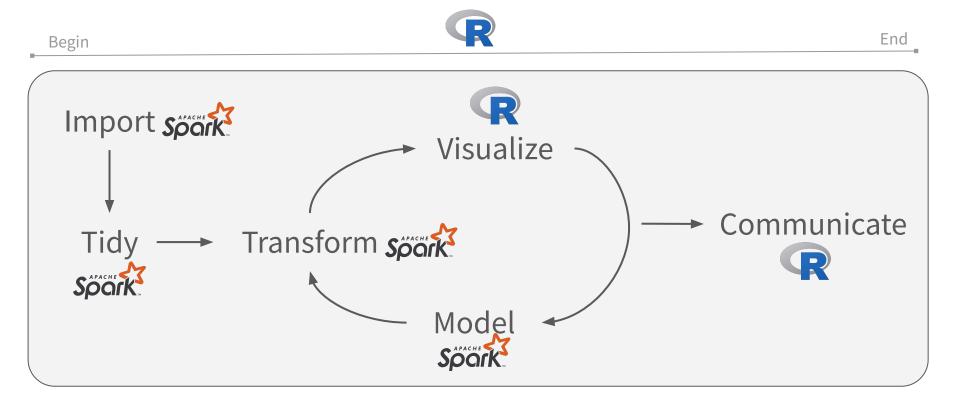
How does Spark work?



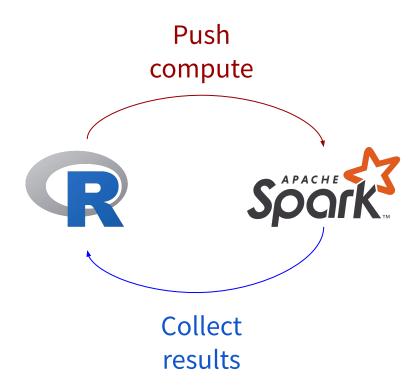
How do I interact with Spark?



Data Science with R, and Spark

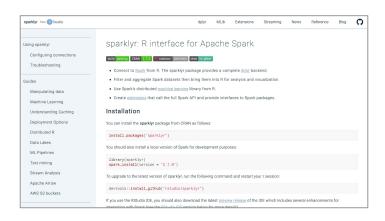


Main takeaway when working with R and Spark

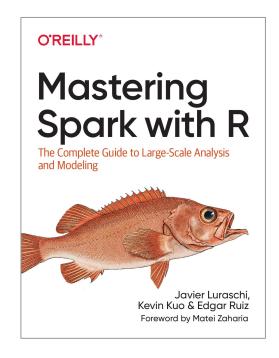


Learn more...

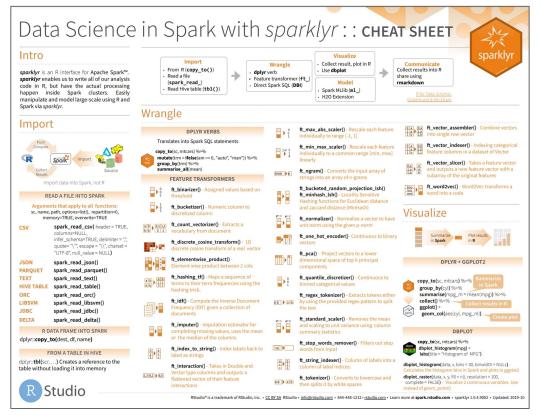
spark.rstudio.com



therinspark.com

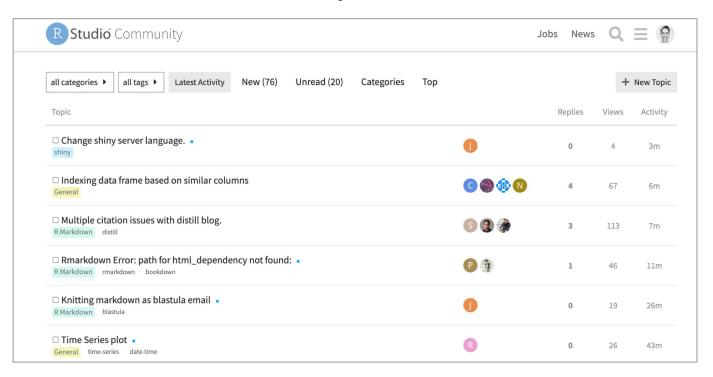


sparklyr cheatsheet



Join the community...

community.rstudio.com



Thank you!

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