

Analyse & Explore



The tidyverse is an opinionated collection of R packages designed for data science. All packages share an underlying philosophy and common APIs.

[Project Site Link >](#)



ggplot 2 is an enhanced data visualization package for R. Create stunning multi-layered graphics with ease.

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dplyr is the next iteration of plyr, focussing on only data frames. dplyr is faster and has a more consistent API.

[Project GitHub Link >](#)



tidyr makes it easy to "tidy" your data. Tidy data is data that's easy to work with: it's easy to munge (with dplyr), visualise (with ggplot2 or ggvis) and model (with R's hundreds of modelling packages).

[Project Paper Link >](#)

Connect & Integrate



Sparklyr is an R interface to Apache Spark, a fast and general engine for big data processing. This package connects to local and remote Apache Spark clusters, a "dplyr" compatible back-end, and an interface to Spark's ML algorithms.

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Plumber enables you to convert your existing R code into web APIs by merely adding a couple of special comments.

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The reticulate package provides a comprehensive set of tools for interoperability between Python and R.

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Model & Predict



TensorFlow™ is an open-source software library for Machine Intelligence. The R interface to TensorFlow lets you work productively using the high-level Keras and Estimator APIs and the core TensorFlow API.

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Sparklyr provides bindings to Spark's distributed machine learning library. Together with sparklyr's dplyr interface, you can easily create and tune machine learning workflows on Spark, orchestrated entirely within R.

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The tidymodels framework is a collection of packages for modeling and machine learning using tidyverse principles.

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Communicate & Interact



Shiny makes it incredibly easy to build interactive web applications with R. Shiny has automatic "reactive" binding between inputs and outputs and extensive pre-built widgets.

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Use R Markdown to develop your code and ideas in a reproducible document. Knit plots, tables, and results together with narrative text, and create analyses ready to be shared.

[Project Site Link >](#)



Use flexdashboard to publish groups of related data visualizations as a dashboard.

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