

tidyverse



Overview

The tidyverse is a set of packages that work in harmony because they share common data representations and API design. The **tidyverse** package is designed to make it easy to install and load core packages from the tidyverse in a single command.

If you'd like to learn how to use the tidyverse effectively, the best place to start is [R for data science](#).

Installation

```
# Install from CRAN
install.packages("tidyverse")

# Or the development version from GitHub
# install.packages("devtools")
devtools::install_github("hadley/tidyverse")
```

Usage

`library(tidyverse)` will load the core tidyverse packages:

- [ggplot2](#), for data visualisation.
- [dplyr](#), for data manipulation.
- [tidyr](#), for data tidying.
- [readr](#), for data import.
- [purrr](#), for functional programming.
- [tibble](#), for tibbles, a modern re-imagining of data frames.
- [stringr](#), for strings.
- [forcats](#), for factors.

You also get a condensed summary of conflicts with other packages you have loaded:

```
library(tidyverse)
#> — Attaching packages —
tidyverse 1.2.0.9000 —
#> ✓ ggplot2 2.2.1.9000    ✓ purrr 0.2.4
#> ✓ tibble 1.4.2          ✓ dplyr 0.7.4
#> ✓ tidyr 0.8.0           ✓ stringr 1.3.0
#> ✓ readr 1.1.1           ✓ forcats 0.3.0
#> Warning: package 'stringr' was built under R version 3.4.3
#> — Conflicts —
tidyverse_conflicts() —
#> ✗ dplyr::filter() masks stats::filter()
#> ✗ dplyr::lag() masks stats::lag()
#> ✗ dplyr::vars() masks ggplot2::vars()
```

You can see conflicts created later with `tidyverse_conflicts()`:

```
library(MASS)
```

```
#>
#> Attaching package: 'MASS'
#> The following object is masked from 'package:dplyr':
```

```
#>      select
tidyverse_conflicts()
#> — Conflicts —————
tidyverse_conflicts() —
#> X dplyr::filter() masks stats::filter()
#> X dplyr::lag()     masks stats::lag()
#> X MASS::select()  masks dplyr::select()
#> X dplyr::vars()   masks ggplot2::vars()
```

And you can check that all tidyverse packages are up-to-date with `tidyverse_update()`:

```
tidyverse_update()
#> The following packages are out of date:
#> * broom (0.4.0 -> 0.4.1)
#> * DBI   (0.4.1 -> 0.5)
#> * Rcpp  (0.12.6 -> 0.12.7)
#> Update now?
#>
#> 1: Yes
#> 2: No
```

Packages

As well as the core tidyverse, installing this package also installs a selection of other packages that you're likely to use frequently, but probably not in every analysis. This includes packages for:

- Working with specific types of vectors:
 - [hms](#), for times.
 - [lubridate](#), for date/times.
- Importing other types of data:
 - [feather](#), for sharing with Python and other languages.
 - [haven](#), for SPSS, SAS and Stata files.
 - [httr](#), for web apis.
 - [jsonlite](#) for JSON.
 - [readxl](#), for .xls and .xlsx files.
 - [rvest](#), for web scraping.
 - [xml2](#), for XML.
- Modelling
 - [modelr](#), for modelling within a pipeline
 - [broom](#), for turning models into tidy data