

R

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1 Introduction

tidyverse R

R

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(: ggplot, tidyverse)



1 (0)

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- install.packages(" ")
- library()

1.1



Front End

- Markup and web languages such as HTML, CSS and Javascript
- Asynchronous requests and Ajax
- Specialized web editing software
- Image editing
- Accessibility
- Cross-browser issues
- Search engine optimisation



Back End

- Programming and scripting such as Python, Ruby and/or Perl
- Server architecture
- Database administration
- Scalability
- Security
- Data transformation
- Backup

Back end

tidyverse

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2 2

1. R , (1)

<https://dplyr.tidyverse.org/articles/dplyr.html>

2. dplyr (2)

<https://m-clark.github.io/data-processing-and-visualization/intro.html>