

Beyond ggplot2

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Beyond ggplot2

- ggplot2 is powerful itself but it doesn't solve every problem in practice
- Thankfully, ggplot2 was built to be easily extended to solve new problems
- [ggplot2 extensions gallery](#)
- In addition, there are other visualization packages unrelated to ggplot2 which address other problems

gganimate

- Animate your visualizations!
- Useful when you want to show how something changes over time
- [gganimate homepage](#)

esquisse (sketch)

- Explore your data interactively
- After finalizing the plot, you can export the code that generates the plot and insert into a script
- [esquisse homepage](#)

sf

- Manipulate and visualize spatial data
- `ggplot2` and `dplyr` are optimized for rectangular data
- Examples:
 - Covid cases for each state (color-coded)
 - Traffic volume in Los Angeles
- [sf homepage](#)

ggraph

- Visualize relational data (graphs and trees)
- Graphs: connected data structure
- Trees: hierarchical data structure
- Examples:
 - Social Media: Facebook friend graph
 - E-commerce: Grouping products into categories and sub-categories
 - Transportation: tracking ride share vehicle movement, airline network maps
 - Biology: family trees, mouse movement
- [ggraph homepage](#)