

An introduction to the ggplot2 extension ecosystem

ggplot2 extenders club

← → ↺

ggplot2-extend-ers.github.io/ggplot-extension-club/

☆ 📄 🗂️ 🔍 🌐

ggplot2 extenders 🐱


Home Meet Discuss Educational Resources

🔗 📄 🔍

Welcome to ggplot2 extenders/ggplot2 extension club. This forum exists to facilitate conversations about extension experiences. We like to talk about motivations, challenges, equivocations, design decision — in general, extension journeys!

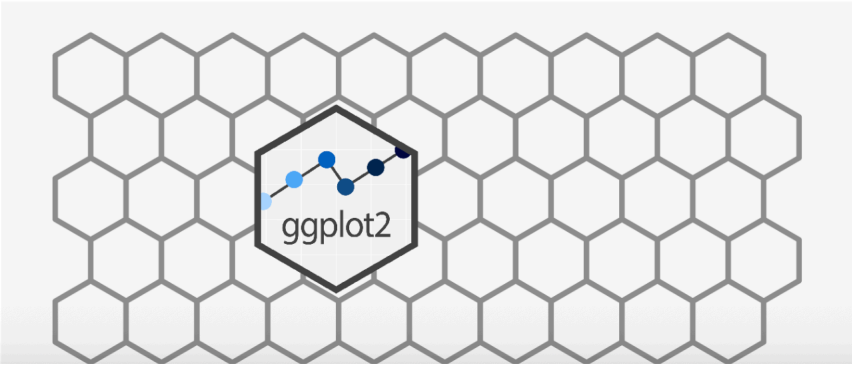
Our main activities are [meetings](#) and [discussions](#).

Want to be notified of our meetings? Please leave your contact info [here](#) and let us know a little about your interest in ggplot2 extension so we can be in touch!



Interested in joining us?

Note that the extension ecosystem is extensive and other initiatives exist to support extenders, check out some [other resources](#).



On this page

[What people are saying](#)

Meeting history (go to meetings page)

Coordination of this space is generously supported by Posit PBC. 🙏

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What is a ggplot2 extension package?

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- ggplot2 extension gallery packages? (151 packages)



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<https://exts.ggplot2.tidyverse.org/>
- Packages on CRAN that start with “gg” or “GG”? (273 packages)

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- ggplot2 extension gallery packages? (151 packages)
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- Packages on CRAN that starts with “gg” or “GG” *and* mentions ggplot2 in the title, description, depends, imports, or suggests fields? (254 packages)

What is a ggplot2 extension package?

- Depends on ggplot2? (411 packages)

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- Suggests ggplot2? (1625 packages)

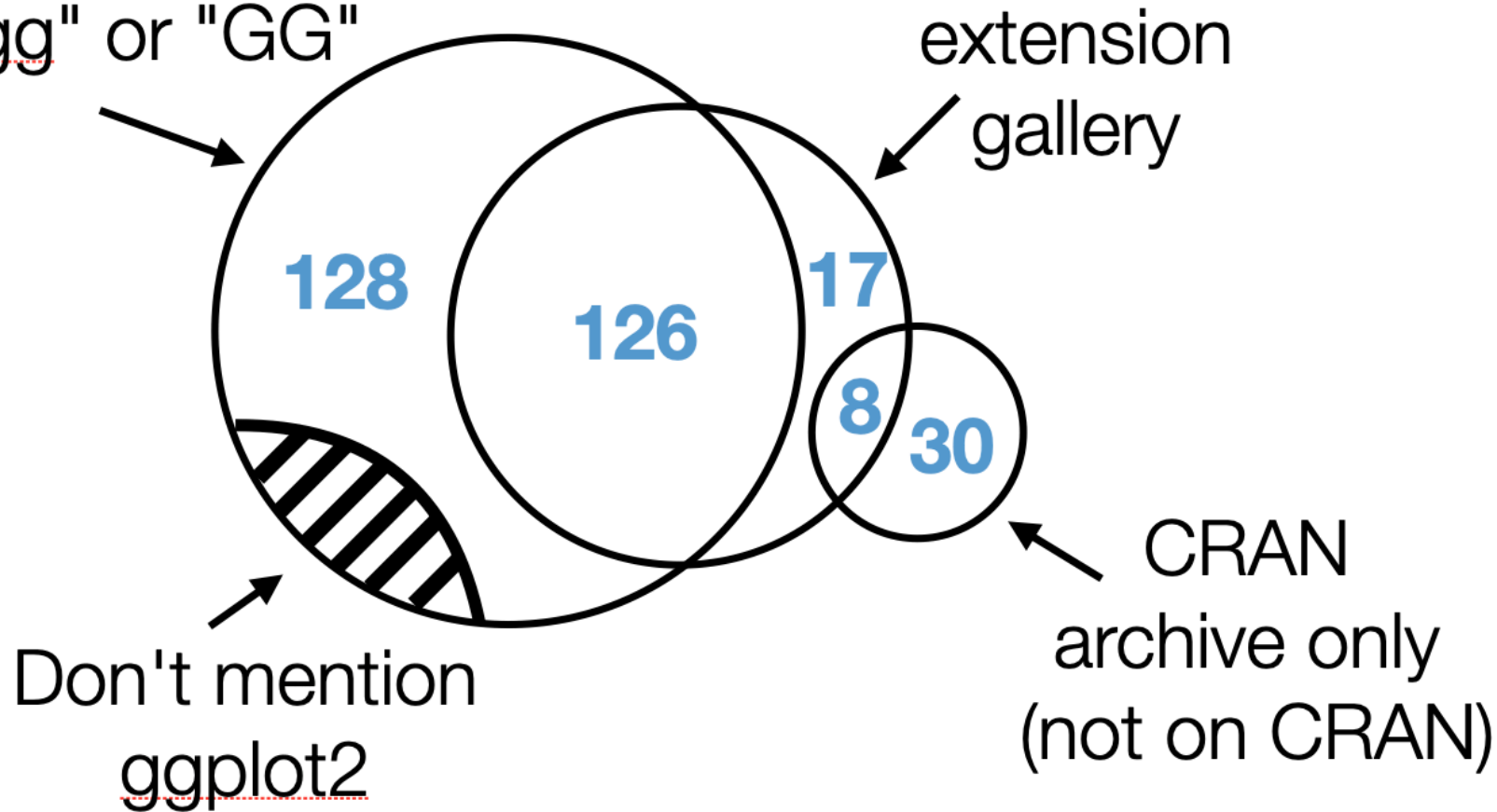
What is a ggplot2 extension package?

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- Imports ggplot2? (3773 packages)
- Suggests ggplot2? (1625 packages)
- The above account for 25.79% of all packages currently on CRAN!

Working definition ==> 309 packages

on CRAN, start with

"gg" or "GG"



First 10 extensions to appear on CRAN

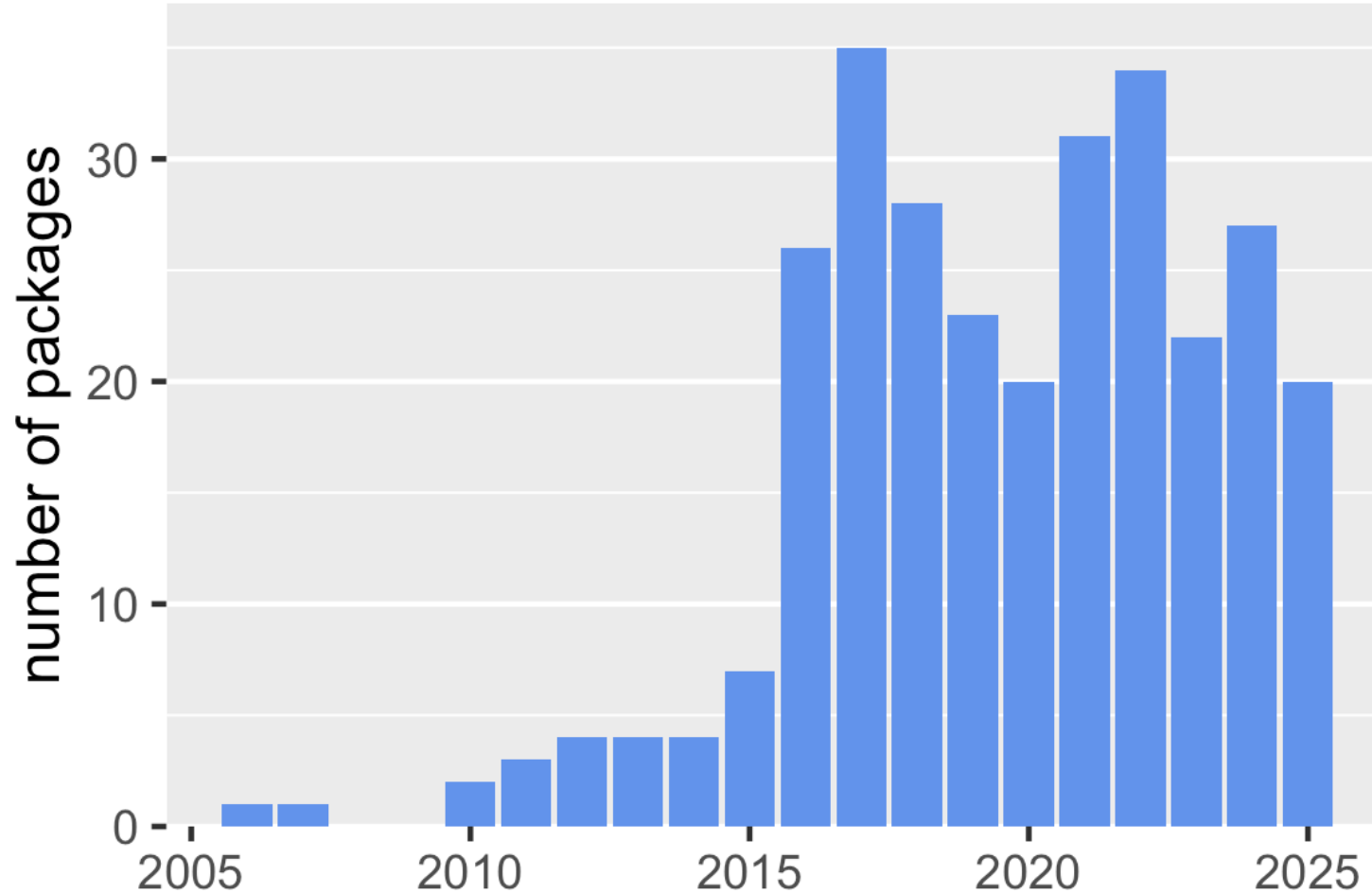
package	first_release	on_cran
ggplot	2006-04-06	FALSE
ggplot2	2007-06-01	TRUE
GGally	2010-02-01	TRUE
directlabels	2010-11-26	TRUE
ggcolpairs	2011-02-16	FALSE
GGEBiplotGUI	2011-08-29	FALSE
ggmap	2011-11-30	TRUE
ggparallel	2012-08-18	TRUE
ggsubplot	2012-09-04	FALSE
ggmcmc	2012-09-05	TRUE

Last 10 extensions to appear on CRAN

package	first_release	on_cran
ggtreebar	2025-05-16	TRUE
ggpedigree	2025-05-23	TRUE
ggtime	2025-06-10	TRUE
ggmRSCU	2025-06-24	TRUE
gggda	2025-07-09	TRUE
ggtranslate	2025-07-10	TRUE
ggchord	2025-07-16	TRUE
ggcorrheatmap	2025-07-28	TRUE
ggplayfair	2025-07-28	TRUE
ggdibbler	2025-07-31	TRUE

First release on CRAN by year

292 packages



The new era of ggplot2 extensions

Commit `6d541c3`



hadley committed on Aug 5, 2015

Rough start on extending ggplot2 vignette. [#1140](#)



main



v3.5.2 ... v2.0.0

- ggplot2 2.0.0 released December 2015, introduced ggproto
- ggplot2 book, 2nd ed released June 2016
 - references extension vignette
 - lists “add-on” packages

Early extensions

From the ggplot2 book 2nd edition (2016):

3.14 Add-on Packages

If the built-in tools in ggplot2 don't do what you need, you might want to use a special purpose tool built into one of the packages built on top of ggplot2. Some of the packages that I was familiar with when the book was published include:

- animInt, <https://github.com/tdhock/animint>, lets you make you ggplot2 graphics interactive, adding querying, filtering and linking.
- GGally, <https://github.com/ggobi/ggally>, provides a very flexible scatterplot matrix, amongst other tools.
- ggbio, <http://www.tengfei.name/ggbio/>, provides a number of specialised geoms for genomic data.
- ggdendro, <https://github.com/andrie/ggdendro>, turns data from tree methods in to data frames that can easily be displayed with ggplot2.
- ggfortify, <https://github.com/sinhrks/ggfortify>, provides fortify and autoplot methods to handle objects from some popular R packages.
- ggenealogy, <https://cran.r-project.org/package=ggenealogy>, helps explore and visualise genealogy data.
- ggmmcmc, <http://xavier-fim.net/packages/ggmmcmc/>, provides a set of flexible tools for visualising the samples generated by MCMC methods.
- ggparallel, <https://cran.r-project.org/package=ggparallel>: easily draw parallel coordinates plots, and the closely related hammock and common angle plots.
- ggtern, <http://www.ggtern.com>, lets you use ggplot2 to draw ternary diagrams, used when you have three variables that always sum to one.
- ggtree, <https://github.com/GuangchuangYu/ggtree>, provides tools to view and annotate phylogenetic tree with different types of meta-data.
- granovaGG, <https://github.com/briandk/granovaGG>, provides tools to visualise ANOVA results.
- plotluck, <https://github.com/stefan-schroedl/plotluck>: the ggplot2 version of Google's "I'm feeling lucky". It automatically creates plots for one, two or three variables.

Beginnings of a typology

The file is view-only. No edits can be made to this file. Contact file owner for details.																											
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y		
				Scraped Data				categories			niche								alternate plot function								
	package	downloads	stars	gallery	description	CRAN	ggplot2 grammar	has alternative initialize function	pre / post plot customization	GUI / Add-in		standalone?	new geom	new scale	new stat	new facet	new theme		data transform?	new components?	ggplot2 object?	notes					
3	ggplot2	159099092	NA	FALSE	Create Elegant Data Visualisation	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	has geoms to repel overlapping text labels away from each other and from data points					
4	ggrepel	23345337	1228	TRUE	Automatically Position Non-Overlapping Text Labels	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	labels/text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	helps arrange multiple plots in a grid layout figure (plot_grid()), often used for public presentations					
5	cowplot	17969538	712	TRUE	Streamlined Plot Theme and Plot Arrangement	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	plot position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	uses functions like ggboxplot() / ggbarplot() that wrap ggplot(), stat_compare_means(), etc.					
6	ggpubr	16228504	1154	TRUE	ggplot2 Based Publication Ready Plots	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	simplify	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	scientific journal color palettes with scales compatible with ggplot2 aes. e.g., scale_color_brewer(), scale_color_ggsci()					
7	ggsci	12072118	676	TRUE	Scientific Journal and Sci-Fi Themed Color Palettes	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	color/theme	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	add significance brackets with p values over comparison groups with geom. e.g., geom_stat_sig()					
8	ggisignif	12007419	597	TRUE	Significance Brackets for 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	stats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	arrange multiple ggplot2 plots - not new ggplot components. e.g., plot_layout(), plot_facet()					
9	patchwork	7732489	2504	TRUE	The Composer of Plots	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	plot position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	allows user to add data on top of maps using layering ggplot2 syntax. ggmap() pulls map data from Google Maps					
10	ggmap	7276878	NA	FALSE	Spatial Visualization with ggplot2	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	map	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	creates of multivariate visualizations. reduce complexity of combining geoms e.g., geom_density_2d()					
11	GGeary	6718408	594	TRUE	Extension to 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new theme and scale options					
12	ggthemes	6224812	1326	TRUE	Extra Themes, Scales and Geoms	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	color/theme	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new specialized geoms to fill in gaps in ggplot2					
13	ggforce	5186610	918	TRUE	Accelerating 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	misc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	creates ridgeline plots (stacked density plots) to visualize distributions over groups					
14	ggridges	4852762	414	TRUE	Ridgeline Plots in 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ridgeline plot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	cleans text into tidy format for downstream plotting					
15	tidytext	4002048	NA	FALSE	Text Mining using 'dplyr', 'ggplot2', and 'tidytext'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	labels/text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	extends ggplot2 with geoms and layouts for relational data structures. best for network visualizations					
16	ggraph	3650294	1083	TRUE	An Implementation of Grammar of Graphics	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	network plot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	additional themes and scales that focus on font/typography					
17	ggtext	3299854	657	TRUE	Improved Text Rendering Support	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	labels/text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	create default plot outputs from statistical models that can then be customized with ggthemes					
18	hrbrthemes	2985553	1252	TRUE	Additional Themes, Theme Components, and Scales	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	color/theme	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	visualization of survival analysis results - survival curves, forest plots, build's upon ggfortify					
19	ggfortify	2900352	528	TRUE	Data Visualization Tools for Statistical Models	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	stats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	computes marginal effects and adjusted predictions from stat models that can then be used in ggplot2					
20	waterfalls	2527261	NA	FALSE	Create Waterfall Charts using 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	waterfall chart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	creates dendrogram plots and tree diagrams. ggden dendrogram(). Also has function to convert dendrogram to ggplot2					
21	survminer	2386700	521	TRUE	Draws Survival Curves using 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	survival plot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	visualization of correlation matrices. ggcorplot()					
22	ggdendro	1820304	NA	FALSE	Create Dendrograms and Tree Diagrams	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	dendrogram	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	converts base/facets plots to ggplot objects with as.ggplot()					
23	ggcorplot	1786784	189	TRUE	Visualization of a Correlation Matrix	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	correlation matrix	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	misc ggplot2 extensions. e.g. geom_bracket() for curved brackets or annotation, linetype, etc.					
24	ggplotly	1608433	NA	FALSE	Convert Plot to 'ggplot' or 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	data type conversion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	horizontal versions of geoms. e.g. geom_barh(), geom_colh() for transposing plots					
25	ggfun	1484263	NA	FALSE	Miscellaneous Functions for 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	misc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new geom. quasirandom() and geom_beeswarm()					
26	ggstance	1417333	201	TRUE	Horizontal 'ggplot2' Components	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	plot position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new geoms for statistical annotation (p vals, regression outputs, etc.) e.g. geom_cc(), geom_stat_sig()					
27	ggbeeswarm	1354568	546	TRUE	Categorical Scatter (Violin Point)	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	point position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	data package with dataset of movies used to demo ggplot2					
28	ggstats	1341141	35	TRUE	Extension to 'ggplot2' for Plotting Statistics	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	stats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	attach subplots (marginal plots, legends, etc.) to the sides of a main plot. e.g. inset(), facet_wrap()					
29	ggplot2movies	1293860	NA	FALSE	Movies Data	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	improve text layout inside rectangles by automatically resizing or wrapping text to fit					
30	aplot	1283274	NA	FALSE	Decorate a 'ggplot' with Annotations	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	plot position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new interface for creating plots within its own new grammar with formula syntax y~x					
31	ggfittext	1281696	306	TRUE	Fit Text Inside a Box in 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	labels/text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	adds animation by defining transitions and frames across a variable. e.g. transition_states(), transition_reverses()					
32	ggformula	1270507	38	TRUE	Formula Interface to the Grammar of Graphics	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	misc	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	allows you to use multiple fill/color scales in one plot. new_scale_color()					
33	gganimate	1215551	1958	TRUE	A Grammar of Animated Graphics	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	animation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new geoms for creating treemaps. geom_treemap()					
34	ggnewscale	1046863	410	TRUE	Multiple Fill and Colour Scales in 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	color/theme	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	defines own plotting system with unique functions and syntax focusing on interactivity					
35	treemapify	1023475	215	TRUE	Draw Treemaps in 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	treemap	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	add marginal plots to the axes of scatterplots					
36	ggvis	948278	NA	FALSE	Interactive Grammar of Graphics	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	interactivity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	makes graphs interactive by adding tooltips, hover effects, etc.					
37	ggExtra	908229	385	TRUE	Add Marginal Histograms to 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	plot position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new geoms and stats for visualizing distributions and uncertainty					
38	ggiraph	853159	817	TRUE	Make 'ggplot2' Graphics Interactive	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	interactivity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	various extensions to ggplot2 including stats for adding model fits, equations, and confidence intervals					
39	ggdist	835895	857	TRUE	Visualizations of Distributions and Uncertainty	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	stats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	arrangement and layout of ggplot2 plots, aligning panels, setting panel sizes, etc.					
40	ggpmisc	806689	102	TRUE	Miscellaneous Extensions to 'ggplot2'	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	stats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	new themes and color palettes					
41	egg	756580	NA	FALSE	Extensions for 'ggplot2': Custom Themes, Scales, and Geoms	TRUE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	plot position	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

Beginnings of a typology

- Category I. “In grammar” extensions: new `geom_`, `stat_`, `coord_`, `facet_`, etc. elements are provided that work with the `ggplot()` plot initialization function.
- Category II. “Complete plot” extensions: “autoplots”, “out of grammar”, “wrappers”, many (most?) of which are not counted in our list of extensions.
- Category III. Extensions that are neither in nor out of grammar, but are, rather, “variations in dialect tailored to domain-specific needs” that extend `ggplot2` in very elegant and unexpected ways