Who are the ggplot2 extenders, and how can you become one? An Overview

ggplot2 extensions: first CRAN releases

- `ggplot` `2006-04-06`
- `ggplot2` `2007-06-10` (*now an adult...*)
- `GGally` `2010-02-01`
- `ggmap` `2011-11-30`

Source: https://cran.r-project.org/src/contrib/Archive/

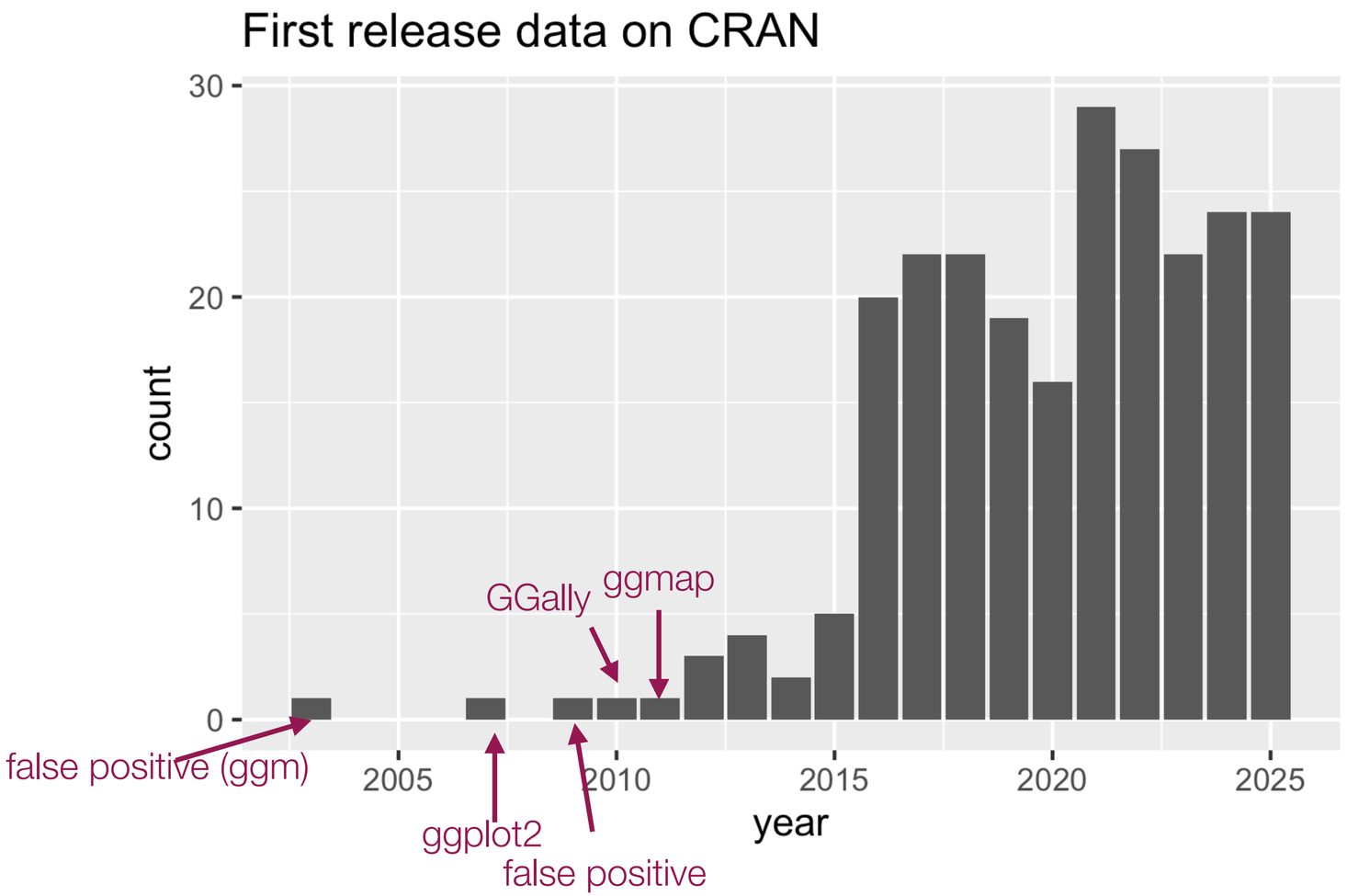
How do we define the ecosystem? (NAME)

- Packages that start with "gg"
  - but not...
- Packages that depend on ggplot2
- Other

How do we define the ecosystem? (LOCATION)

- Tidyverse Extension Gallery
- CRAN
- GitHub
- Other

CRAN release dates



Early extensions 2012-2015

	package	first_release_date
	<chr>	<date>
1	gglasso	2012-04-30
2	ggmcmc	2012-09-05
3	ggthemes	2012-12-22

	package	first_release_date
	<chr>	<date>
1	ggswissmaps	2014-11-07
2	ggvis	2014-06-24

	package	first_release_date
	<chr>	<date>
1	ggdendro	2013-01-28
2	GGIR	2013-08-08
3	ggparallel	2013-08-20
4	ggtern	2013-12-18

	package	first_release_date
	<chr>	<date>
1	gge	2015-12-14
2	ggenealogy	2015-03-02
3	ggExtra	2015-03-27
4	ggfortify	2015-10-04
5	ggplot2movies	2015-08-25

2015/2016

- 1st version of "Extending ggplot2" vignette

- ggplot2 2.0.0 released December 2015
- ggplot2 book, 2nd edition released June 2016

2016

	package	first_release_date
	<chr>	<date>
1	ggalt	2016-01-04
2	ggrepel	2016-01-09
3	ggcorrplot	2016-01-12
4	ggiraph	2016-01-28
5	ggpmisc	2016-01-30
6	GGMridge	2016-02-02
7	ggspectra	2016-02-06
8	ggbeeswarm	2016-02-21
9	ggraptR	2016-03-04
10	ggThemeAssist	2016-03-09
11	ggnetwork	2016-03-25
12	ggsci	2016-04-04
13	ggpubr	2016-07-20
14	ggghost	2016-08-07
15	ggpolypath	2016-08-10
16	ggdmc	2016-10-28
17	ggforce	2016-11-22
18	ggiraphExtra	2016-12-03
19	ggmosaic	2016-12-30
20	gghalfnorm	2016-12-31

"Add-on" packages

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.
- ggmcmc, http://xavier-fim.net/packages/ggmcmc/, 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.

A great place to track new extensions is http://www.ggplot2-exts.org, by Daniel Emaasit.

Time Series

- total download count?
- total number of packages?
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