

Welcome to R-Ladies East Lansing

Janani Ravi | jananiravi@rladies.org

Camille Archer | camille@rladies.org

July 25, 2018

Welcome!

You are in the right place!

whether you are an R-novice or an R-expert!



Welcome to R-Ladies East Lansing!

a local chapter of R-Ladies Global

- Please fill out our Getting Started survey: bit.ly/rlel-gettingstarted
- If you are here, please make sure you have RSVP'ed on Meetup!
- Join us: bit.ly/rladies-eastlansing

Let us know you!

Pick up some

Find someone you've not met before!

Find out their:

1. Name
2. Where are they from?
3. How & When did they start using R?
4. One interesting factoid about them!

Introduce them to us!

Agenda

Intro

- to each other ✓
- to R-Ladies
- to R-Ladies East Lansing

R

- Snapshot: R
- Snapshot: Fun with R
- Snapshot: Data Vis. w/ R

Activities

- Topics for future meetups!
- Getting involved!
- Sign up

R community



DynamicWebPaige @ \$HOME 
@DynamicWebPaige

Following 

The #rstats community is obsessed with:

- straightforward documentation
- effective communication
- data visualization+storytelling
- intuitive, developer-centric tooling
- inclusivity
- reproducible research
- code peer reviews

If any of that resonates:

ropensci.org/blog/2018/02/0...

4:38 PM - 11 Feb 2018



2



84



286

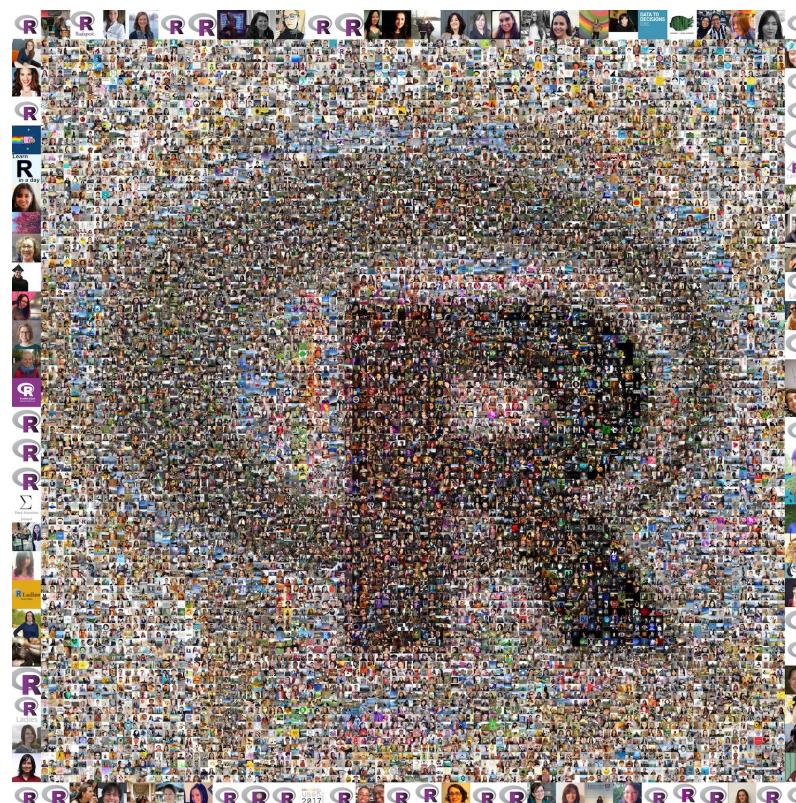


 Credits: @DynamicWebPaige

Who we R

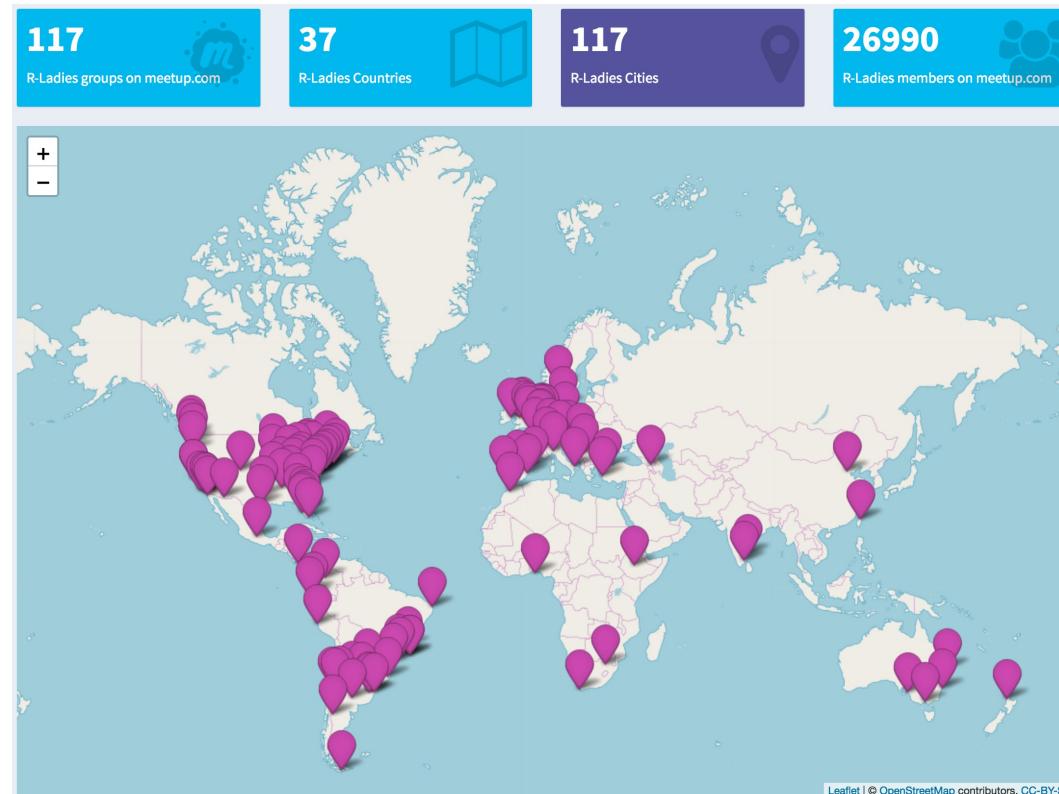


Worldwide organization that
promotes **gender diversity** in
the **#rstats** community via
meetups and mentorship in a
friendly and **safe** environment



Credits: Lucy D'Agostino McGowan | R-Ladies Nashville

Where we are: R-Ladies Worldwide



Credits: Gabriela de Queiroz | R-Ladies Founder + Leadership Team + R-Ladies SF |
<https://gqueiroz.shinyapps.io/rshinyLady/>



R-Ladies: A force for good

LatinR |
ConectaR | Costa Rica
Call of Data | R-Ladies Madrid
Working with PAWS | R-Ladies Philly
UseR | R-Ladies Global
R-Ladies Abstracts | R-Ladies Global R-
consortium | policy change → safe & inclusive
events | R-Ladies Global



R-Ladies: A force for good

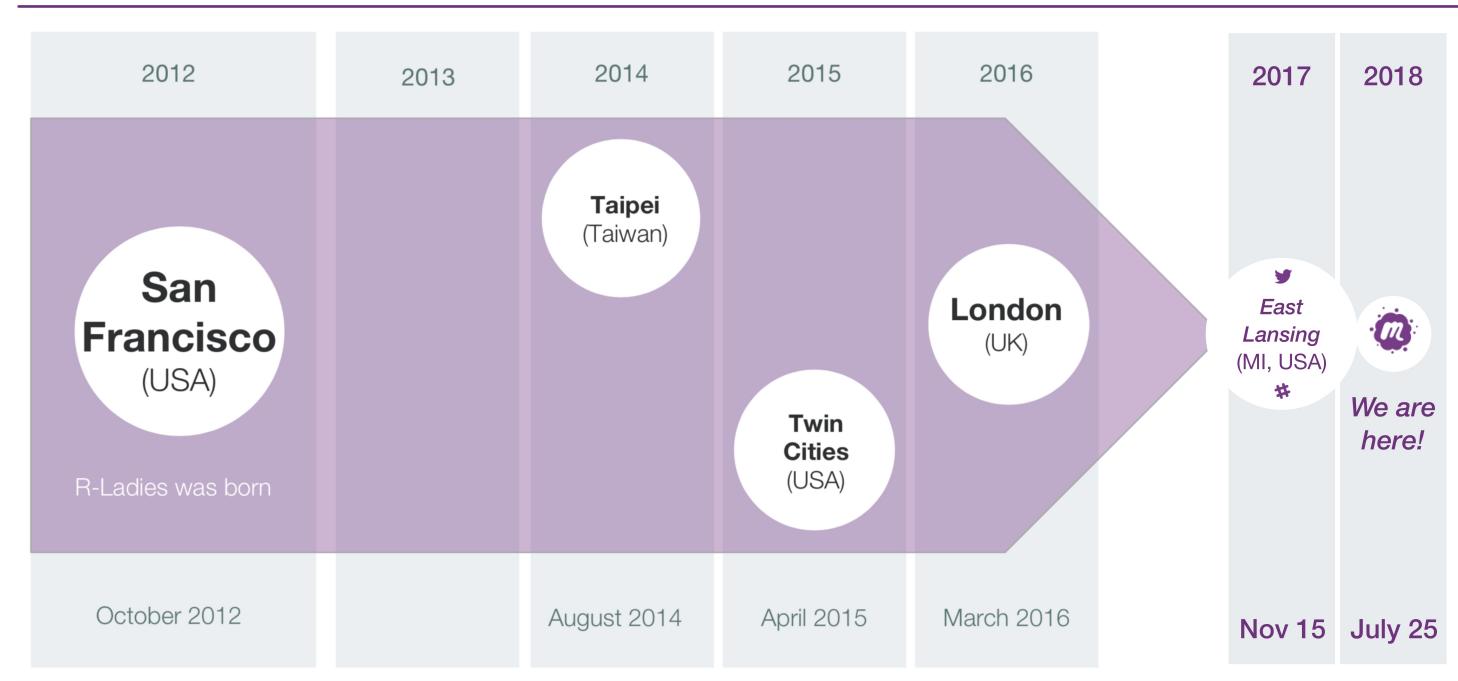
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R-Ladies Taipei got together with [@pyladies](#) and [@GirlsinTech](#), to teach the Taiwanese president how to code!

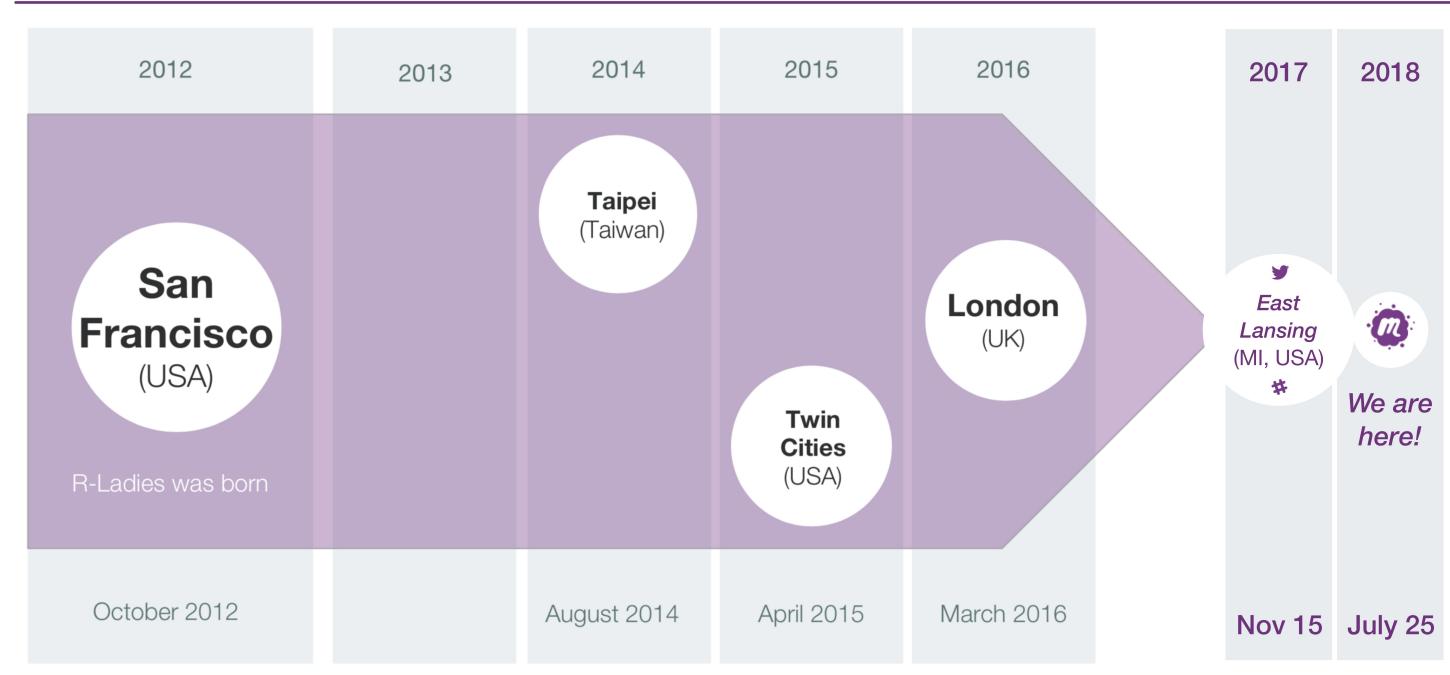


R-Ladies East Lansing



Credits: Adapted from UseR 2017!

R-Ladies East Lansing



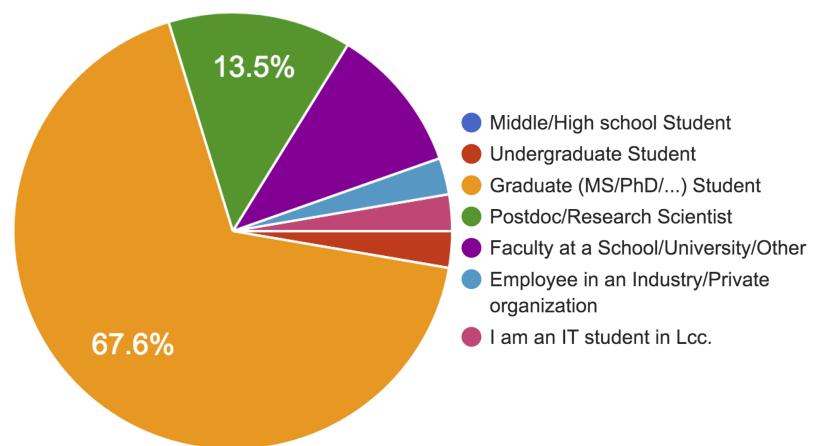
Credits: Adapted from UseR 2017!



Meetup tips? East Lansing meets Chicago | July 06, 2018!

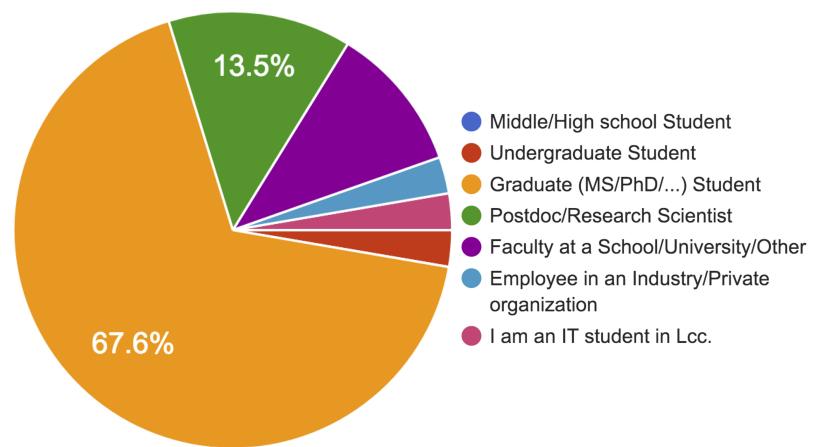
R-Ladies East Lansing

User Level

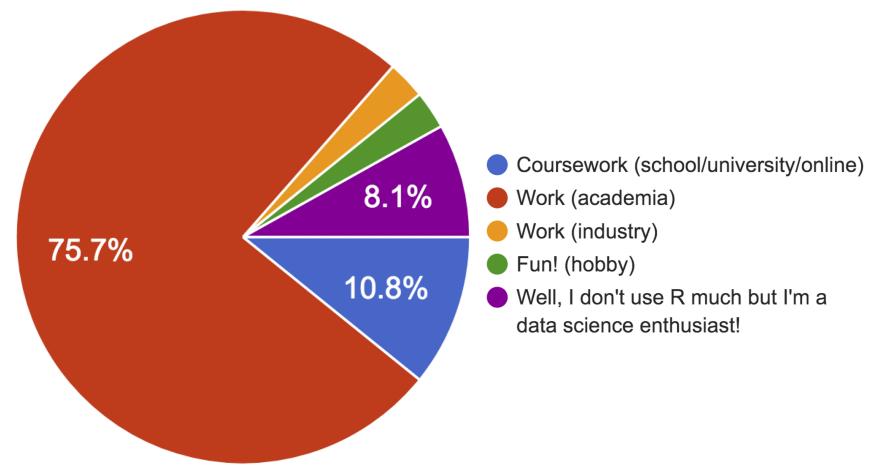


R-Ladies East Lansing

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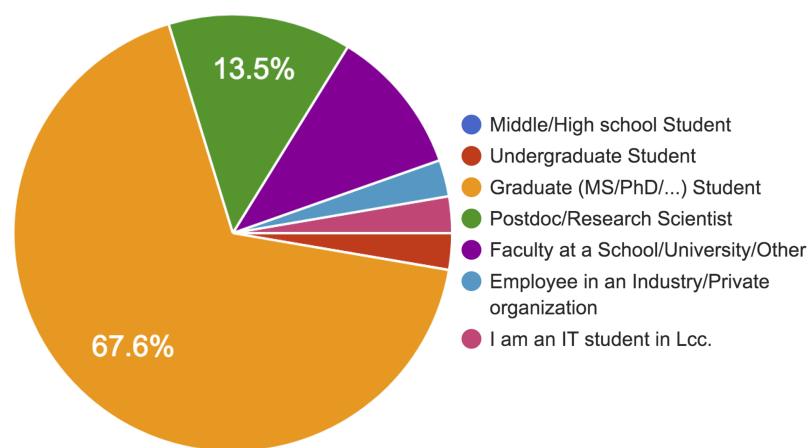


R usage scope

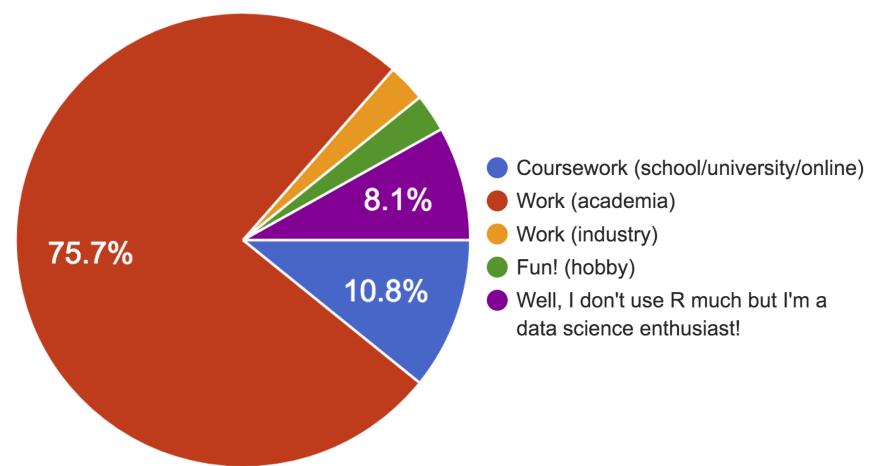


R-Ladies East Lansing

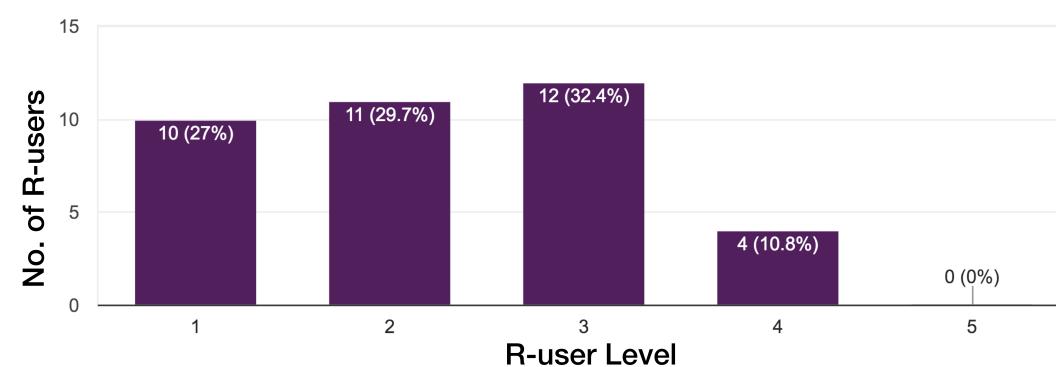
User Level



R usage scope



R-user Level



R-Ladies East Lansing

Things we could do

- 👁 Choose topics you would like to (Learn | Teach | Help)
- ❑ Pick the corresponding large stickies
- pencil Write your names
- ✓ Stick them below the topics of your interest
- ✚ Feel free to add additional comments/ideas in your stickies
- ❑ Find Camille/me if you need help

Get involved

Support

Local Chapters :

- FREE venue
- Sponsorship for food and drink

Advocate

- R-Ladies directory
- Opportunities e.g. conferences, jobs etc

Inspire

Raise your voice

- Join R-Ladies
- Code Share
- Inspire and support others
- Teach
- Blog
- Tweet

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Learn 

Present/Teach/Lead discussions

Be an R helper: Technical >_

Social   

Website & Blogs: 

Content management:   G Drive

Get involved

Learn 

Present/Teach/Lead discussions

Be an R helper: Technical

Social   

Website & Blogs: 

Content management:  

 Pick small stickies

 Write your names

 Stick 1 up against each of these

 Find Camille/me if you need help

Next meeting(s)?

Show of hands!

How often should we meet? Biweekly?

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Fall schedule Every other Monday, 6-730p?

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First 3 meetings Lightning talks?

How do you use R in your work?
Cool R packages?

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First 3 meetings Lightning talks?

How do you use R in your work?
Cool R packages?

Please sign up!

Fun with R!

Want to add GIFs to your RMarkdown presentation?



Credits: haozhu233/giphyr

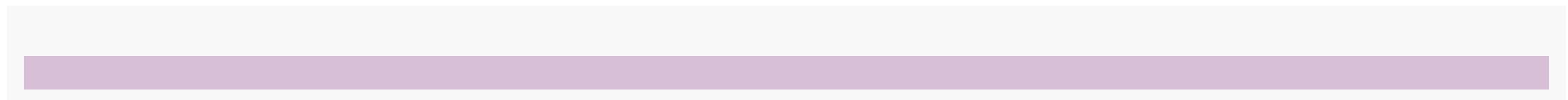
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Want to add emojis to your RMarkdown presentation?

⌚ Credits: hadley/emo

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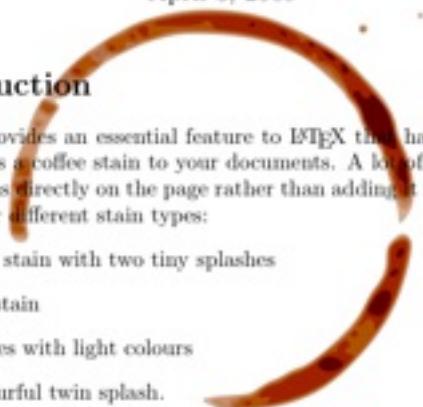
⌚ Credits: hadley/emo

Want coffee stains on your documents instead?

LaTeX Coffee Stains

Hanno Rein
<http://hanno-rein.de>
Cambridge University

April 3, 2009



1 Introduction

This package provides an essential feature to L^AT_EX that has been missing for too long. It adds a coffee stain to your documents. A lot of time can be saved by printing stains directly on the page rather than adding it manually. You can choose from four different stain types:

1. 270° circle stain with two tiny splashes
2. 60° circle stain
3. two splashes with light colours
4. and a colourful twin splash.

☕ Credits: Hanno Rein | hanno-rein.de

How-to-R



Jesse Maegan
@kierisi

Following

My #rstats learning path:

1. Install R
2. Install RStudio
3. Google "How do I [THING I WANT TO DO] in R?"

Repeat step 3 ad infinitum.

9:19 AM - 18 Aug 2017

86 739 2.6K



Hannah A. Brazeau
@moietymouse

Following

Impost-R syndrome: when you're convinced everyone but you learns R effortlessly.

3:28 PM - 17 Feb 2017

23 506 1.2K



Mattias P Johansson ✅
@mpjme

Following

New programmers, take note: When people say "simple", "intuitive" or "easy" they very frequently mean "familiar to me"

2:54 PM - 2 May 2018

88 1.7K 5.3K



Credits: @kierisi | @moietymouse | @mpjme

Acknowledgements

People

- Camille Archer  ICER, MSU
- Arjun Krishnan  CMSE, MSU
- Nate Davis  MSU Data Science
- Nichole Nadkarni  Red Fish Viral

R-Ladies

- Katherine Simeon & Amy Wang  Chicago
- Jen Richmond  Sydney
- Melina Vidoni  Santa Fe
- Jennifer Thompson  Nashville
- Alison P Hill  Portland
- Bruna Wundervald  Curitiba

Packages & communities

- Xaringan theme  yihui/xaringan
 - R-Ladies 
- KnitR, R Markdown, remark.js
- Emo, GiphyR, FontAwesome
- MeetupR | Gabriela de Queiroz  rshinylady
- R-Ladies Global 
- R-Ladies Remote 

Today's Sponsor!



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 All you folks for being here for our Kick-off meeting!

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- R-Ladies Remote  #

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Find us Online!

R-Ladies

East Lansing

-  eastlansing@rladies.org
-  [@RLadiesELansing](https://twitter.com/RLadiesELansing)
-  [rladies-east-lansing](#)
-  [@rladies-eastlansing](#)
-  [rladies-eastlansing.slack.com](#)
-  ICER, Michigan State University

Global

-  [rladies.org](#)
-  [@RLadiesGlobal](#)

Organizers

Janani Ravi

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-  [@jananiravi](#)
-  [@janani137](#)
-  [jananiravi.github.io](#)

Camille Archer

-  camille@rladies.org
-  [@archerc5](#)
-  [@camillearcher5](#)
-  [camille.archer.1](#)

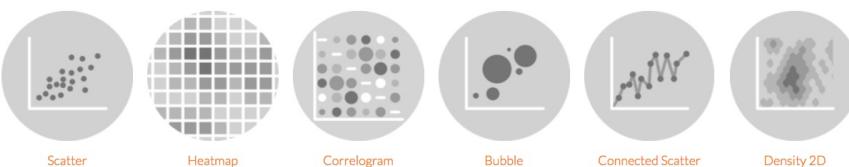
R for DataViz



Distribution



Correlation



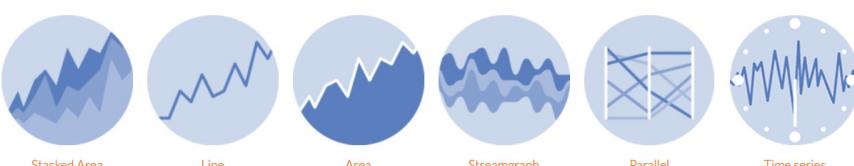
Rankings



Part of a whole



Evolution



from Data to Viz



from Data
to Viz

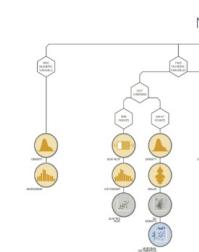
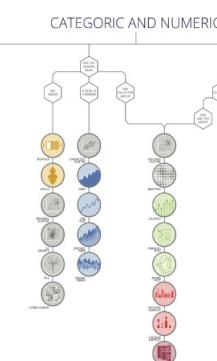
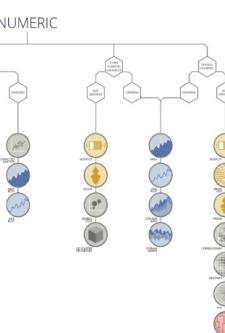
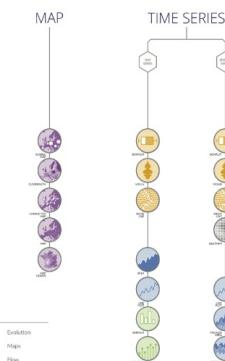
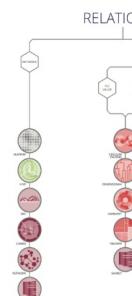
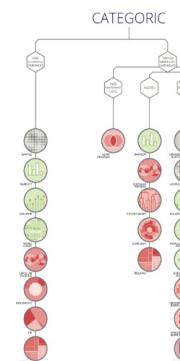
'From Data to Viz' is a classification of chart types based on the type of data they represent. It will help you find the perfect chart in three simple steps:

- ① Identify what type of data you have.
- ② Go to the corresponding decision tree and follow it down to a set of possible charts.
- ③ Choose the chart from the set that will suit your data and your needs best.

data-to-viz.com

Dataviz is a world with endless possibilities and this project does not claim to be exhaustive. However it provides a good starting point for your search. For an interactive version and much more, visit:

data-to-viz.com



© 2014 by Ben Heidorn & Daniel Lüdtke for www.dataviz-for-r.com

R for DataViz

VIOLIN PLOT

[definition](#) - [mistake](#) - [related](#) - [code](#)



Definition

Violin plot allows to visualize the distribution of a numeric variable for one or several groups. Each ‘violin’ represents a group or a variable. The shape represents the density estimate of the variable: the more data points in a specific range, the larger the violin is for that range. It is really close to a [boxplot](#), but allows a deeper understanding of the distribution.

Here is an example showing how people [perceive probability](#). On the [/r/samplesize](#) thread of reddit, questions like *What probability would you assign to the phrase “Highly likely”* were asked. Answers between 0 and 100 were recorded, and here is the distribution for each question:

[CODE](#)

