```
library(dplyr)

rladies_global %>%
  filter(city == 'Milan')
```



# Kickoff event July 20<sup>th</sup> 2017 19-20.30





# Big thanks to our sponsor & host



#### Who are Rladies?



- Founded by statistician Gabriela de Queiroz
- San Francisco, Oct 2012
- To create a community of R-ladies users to encourage ladies to:
- Join the coding community
- Develop R packages
- Increase the attendance/visibility of women as speakers at R conferences and meetings

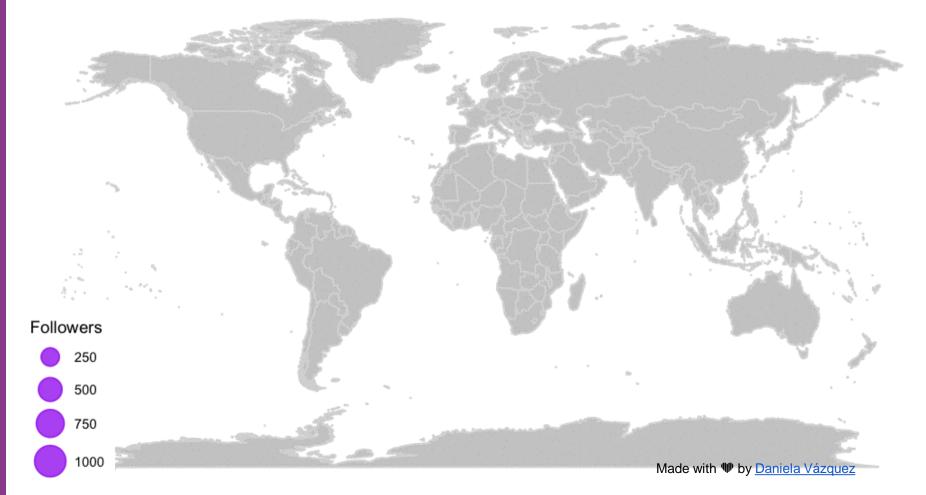


#### Where are rladies now?





#### Twitter followers by each chapter





14% R package developers are female

26% Only make up data professionals

20% Of all tech startups across the world are founded by women

- 1) http://blog.revolutionanalytics.com/2016/09/all-the-r-ladies.html
- 2) <a href="https://www.betterbuys.com/bi/women-in-data-science/">https://www.betterbuys.com/bi/women-in-data-science/</a>
- 3) http://www.dailyinfographic.com/33-must-know-facts-about-women-in-technology





# Rladies Milan

- Founded in 30 june 2017
- 35 members











- Senior Data scientist @ EY
- Studied in computer science in Polimi
- 3 years experience in data processing & analytics & machine learning
- My interests are machine learning, artificial intelligence and analytics





#### Erica Yu

- Studied architecture in Polimi
- Working as a freelance designer
- Passionate about analytics & data mining
- Intend to find a job related to data science

### Our mission is simple



#### Why we are here

- Gather who are passionate about data science
- Improve R knowledge
- Know new people
- Launch new ideas

#### Our goal

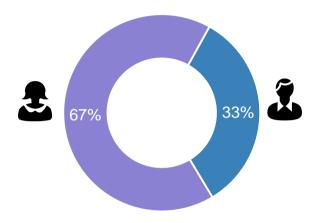
- Monthly workshops
- Monthly talks
- Monthly projects
- Facilitate the access to R community
- Grow network

More
Woman
leader

More
Woman
developer

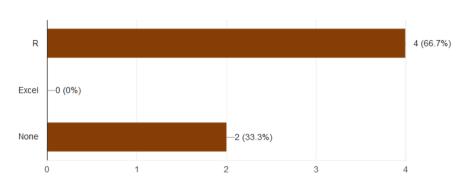
More
Women
speaker





#### Do you have experience in analytics by R or Excel?

6 responses



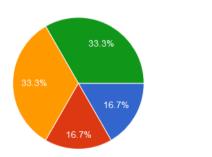


1 out f 2 participated in survey



#### What is your R level?

6 responses



#### What is you job title?

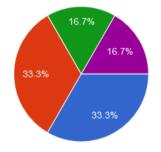
6 responses

Beginner

Advanced

Intermediate

I dont know R

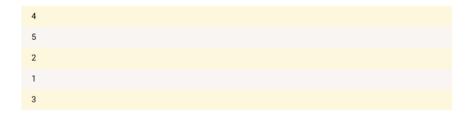






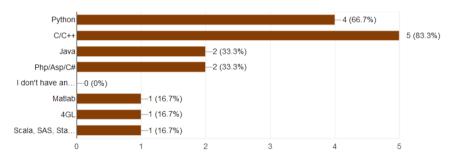
#### If you are working, please provide how many years

5 responses



#### Do you have programming experience with any of listed languages?

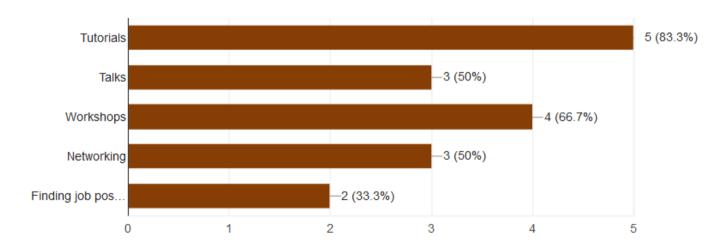
6 responses





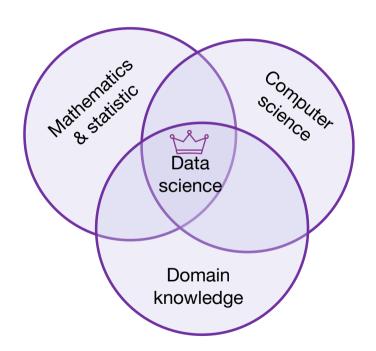
#### What would you like to see in R-Ladies Milan?

6 responses





#### What is data science?

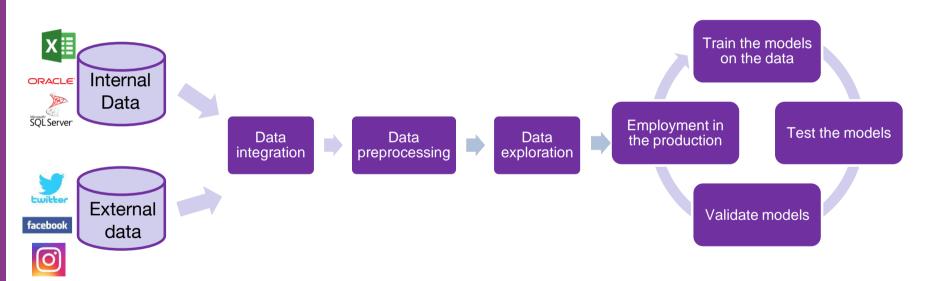


#### Data is the new oil!

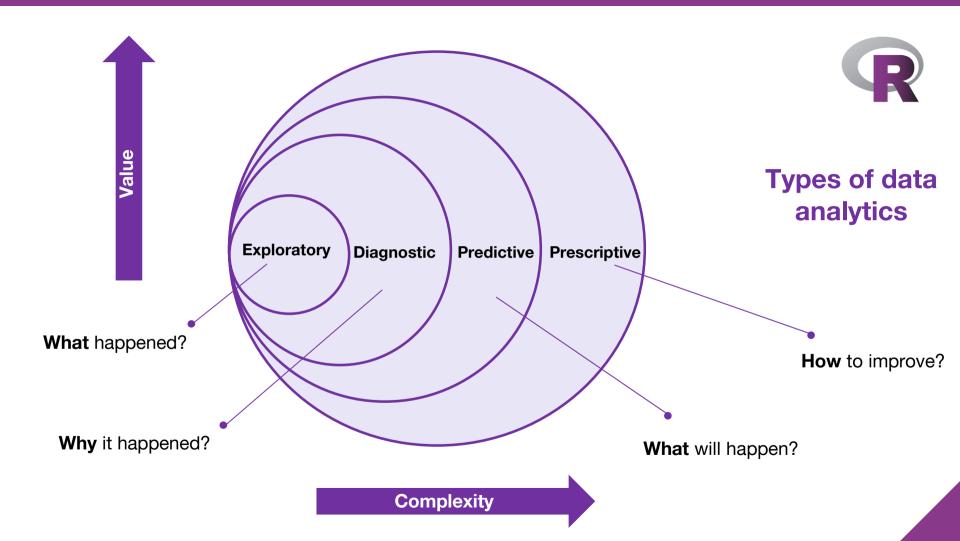
- It is the art of analyzing and extracting patterns and trends from the data through various tools
- It is about discovering new insights that they are not visible just by raw numbers



# What is the workflow of data analytics?



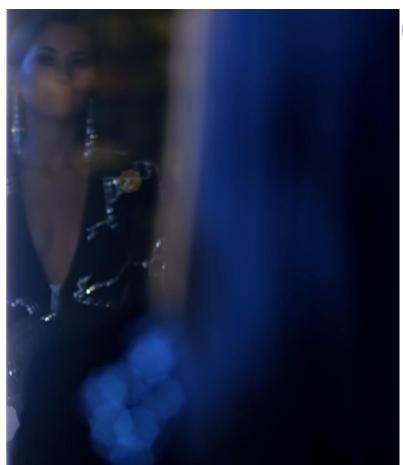
Make invisible, visible!





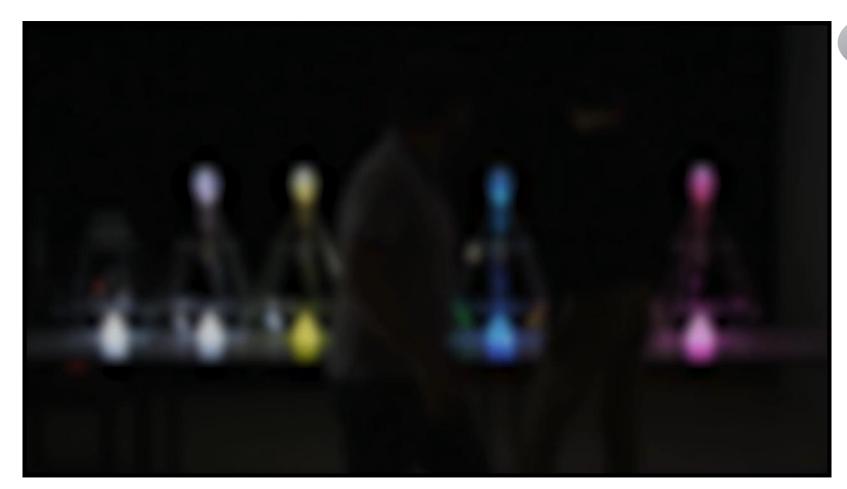
Data Driven Sculpture







Data Dress





Data Cocktail





A data scientist is better at statistic than a software engineer and is better at software engineering than a statistician "



#### MODERN DATA SCIENTIST

Data Scientist, the sexiest job of the 21th century, requires a mixture of multidisciplinary skills ranging from an intersection of mathematics, statistics, computer science, communication and business. Finding a data scientist is hard. Finding people who understand who a data scientist is, is equally hard. So here is a little cheat sheet on who

#### & STATISTICS

- ☆ Machine learning
- ☆ Statistical modeling
- ☆ Experiment design
- ☆ Ravesian inference
- ☆ Unsupervised learning: clustering. dimensionality reduction
- ☆ Optimization: gradient descent and

#### DOMAIN KNOWI FDGF & SOFT SKILLS

- ☆ Passionate about the business
- ☆ Curious about data
- ☆ Influence without authority
- ☆ Hacker mindset
- ☆ Problem solver
- innovative and collaborative

#### **PROGRAMMING** & DATABASE

- ☆ Computer science fundamentals
- ☆ Statistical computing packages, e.g.,
- ☆ Databases: SOL and NoSOL
- ☆ Relational algebra
- ☆ Parallel databases and parallel quer
- ☆ MapReduce concepts
- ☆ Hadoop and Hive/Pig
- ☆ Custom reducers
- ★ Experience with xaaS like AWS

#### COMMUNICATION & VISUALIZATION

- ☆ Able to engage with senior
- ☆ Story telling skills
- ☆ Translate data-driven insights into
- ☆ Visual art design
- R packages like ggplot or lattice
- ☆ Knowledge of any of visualization







#### **Data scientists**

 Use analytics & technical skills to extract data















#### **Statistician**

Understand statistic and apply it on real problems











#### **Data engineer**

- Responsible for architecture of data
- Ensure the flow of data within servers & applications







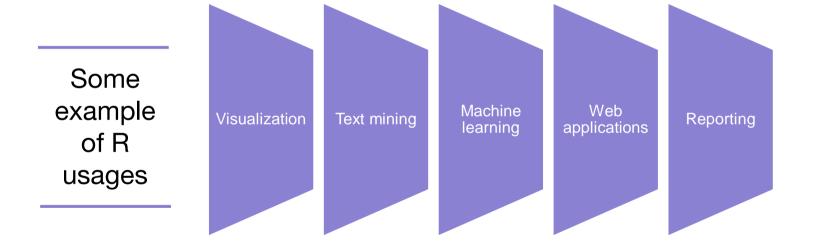






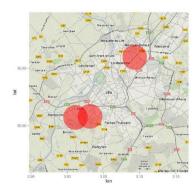
R is a free software environment for statistical computing, graphics, machine learning, etc.

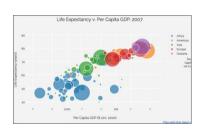
It consists of various packages which are focused for different objectives and use cases.

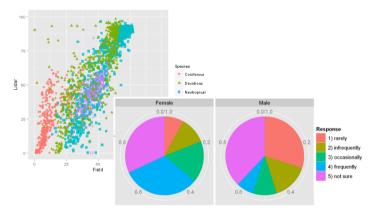




#### Visualization







ggmap

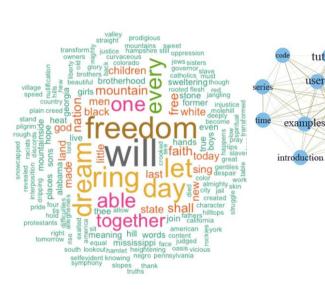
**htmlwidgets** for R



ggplot2



Text mining



tutorial slides

> r mining data

analysis

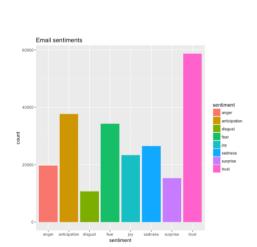
package

network

postdoctoral

users

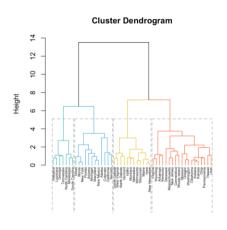
examples

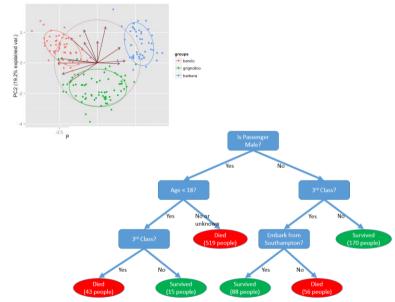






## Machine learning





the caret package

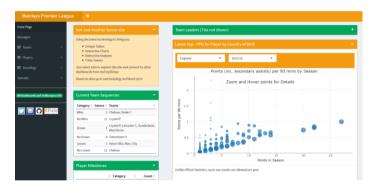




# Web applications



25 🕟 records per page							Seale	
Incident	Nature	Priority	DateTime	UeltNum	Block	Street	Deat	ReportingArea
16-1008686	DASF-Dist Active Shooter Foot	1	May 25 2006 12 24PM	Date	4000	Bryan St	196	2013
16-1009469	DAEF-Olst Armed Encounter Foot	1	May 25 2005 F00PM	CISS	3000	South Blvd	343	2113

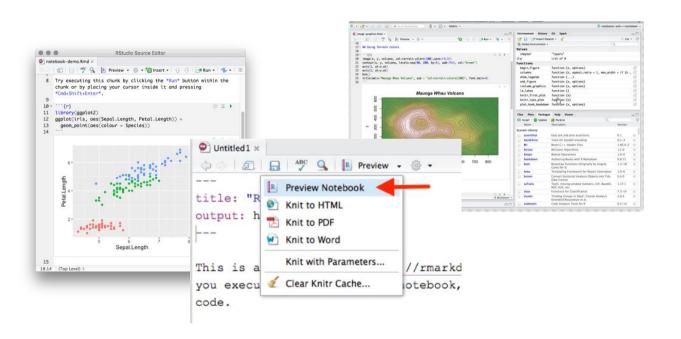






#### Reporting







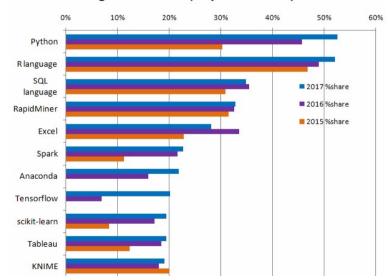
- 1. It is free!
- Free to install, use, update and clone

	SPSS	Matlab	Minitab	STATISTICA QC
Business	\$99,00 USD per user per month	€2,000 individual	11001100	€1,612,00 Single license



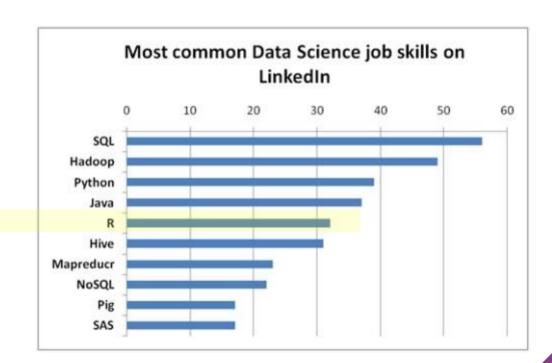
2. It is popular

#### KDnuggets Analytics, Data Science, Machine Learning Software Poll, top tools share, 2015-2017





3. It is among data science skills that it is necessary to learn



\*2016 CrowdFlower analysis on job position in linkedin

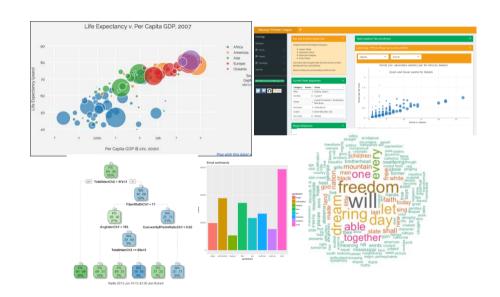


3. Highest paid technical skill in US\*

CVIII	2012	YR/YR CHANGE	
SKILL	2013	CHANG	
R	\$ 115,531	n/a	
NoSQL	\$ 114,796	1.6%	
MapReduce	\$ 114,396	n/a	
PMBok	\$ 112,382	1.3%	
Cassandra	\$ 112,382	n/a	
Omnigraffle	\$ 111,039	0.3%	
Pig	\$ 109,561	n/a	
SOA (Service Oriented Architecture)	\$ 108,997	-0.5%	
Hadoop	\$ 108,669	-5.6%	
Mongo DB	\$ 107,825	-0.4%	



4. R is powerful: Able to handle various set of problem from normal simulation and analysis till interactive web applications





5. R is well supported by its community



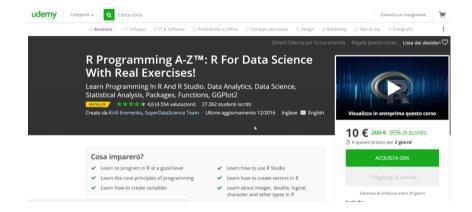


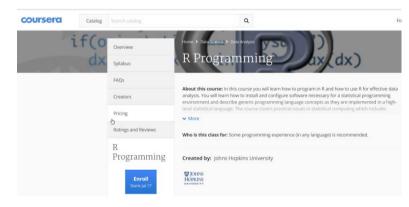








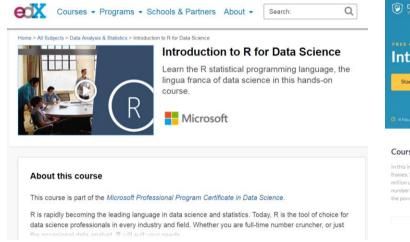


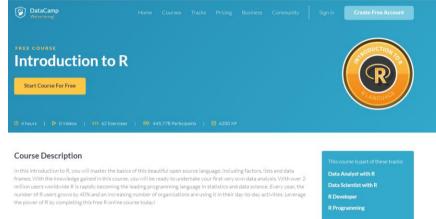










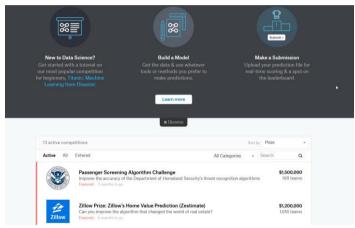


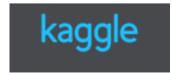




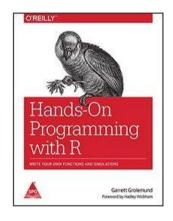


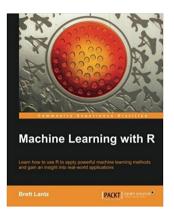


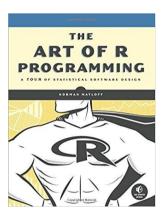


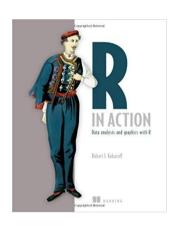
















R RDocumentation





Be ready for the journey!



# Famous female data scientists (some examples)



#### **Hillary Mason**

- Founder of FastForward Labs
- Fortune 40 under 40
- Top 100 most creative people in business by Fast Company



#### **Carla Gentry**

- Data Scientist at Talent Analytics
- Experience over 20 years which includes working for Fortune 500 companies like Hershey, Kraft, Johnson & Johnson, Kellogg's and Firestone
- One of the most popular personalities in Big Data community to follow on Twitter



# Famous female data scientist (some examples)



#### **Diane Greene**

- Senior Vice President at Google
- Founder and CEO of VMWare
- Frontrunner in the advancement of cloud and data technology



#### **Daphne Koller**

- President and Co-Founder of Coursera
- Various awards such as ONR Young Investigator Award, ACM Infosys Award, MacArthur Foundation Fellowship, etc.
- Professor @ Stanford University for almost 18 years

#### Follow us





https://twitter.com/RladiesMilan



https://www.meetup.com/R-Ladies-Milan/



https://www.facebook.com/rladiesmilan/



We are looking forward for you ideas & feedbacks

#### **Events**



20 july Kickoff **September Workshop** 

November Project

#### How to get involved?

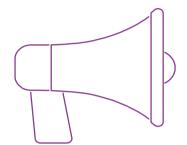


- Join our meetups
- Follow us in twitter & facebook

- Give a talk
- Lead a workshop
- Be a co-organizer

- Share your experience with others
- Ask your company to sponsor us





# We are looking always for sponsors and speakers



# Print("Thank you")



