


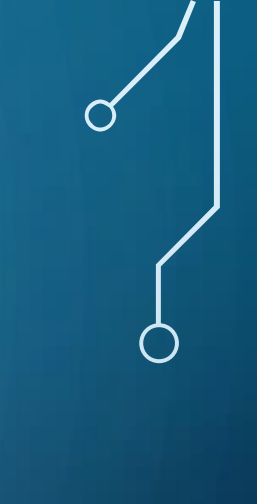
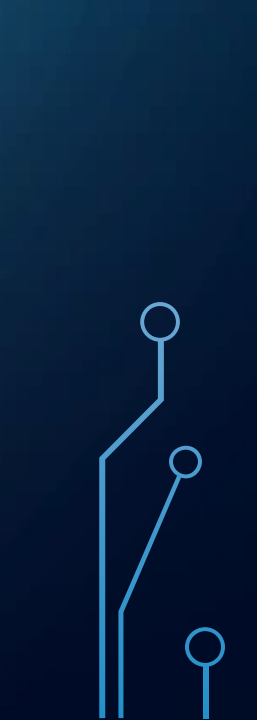
A decorative graphic on the left side of the slide, consisting of white and light blue lines that resemble a circuit board or a network diagram. These lines are vertical and horizontal, with small circles at various points, creating a stylized, abstract pattern.

THE ONE THAT REBOOTED

JOHANNESBURG R USER GROUP



AGENDA

- 8:00 Networking and coffee
 - 8:15 Introduction & R-Ladies
 - 8:30 Robert Benetto - Tidy geometries
 - 9:30 Closing and next meeting
- 
- 
- 

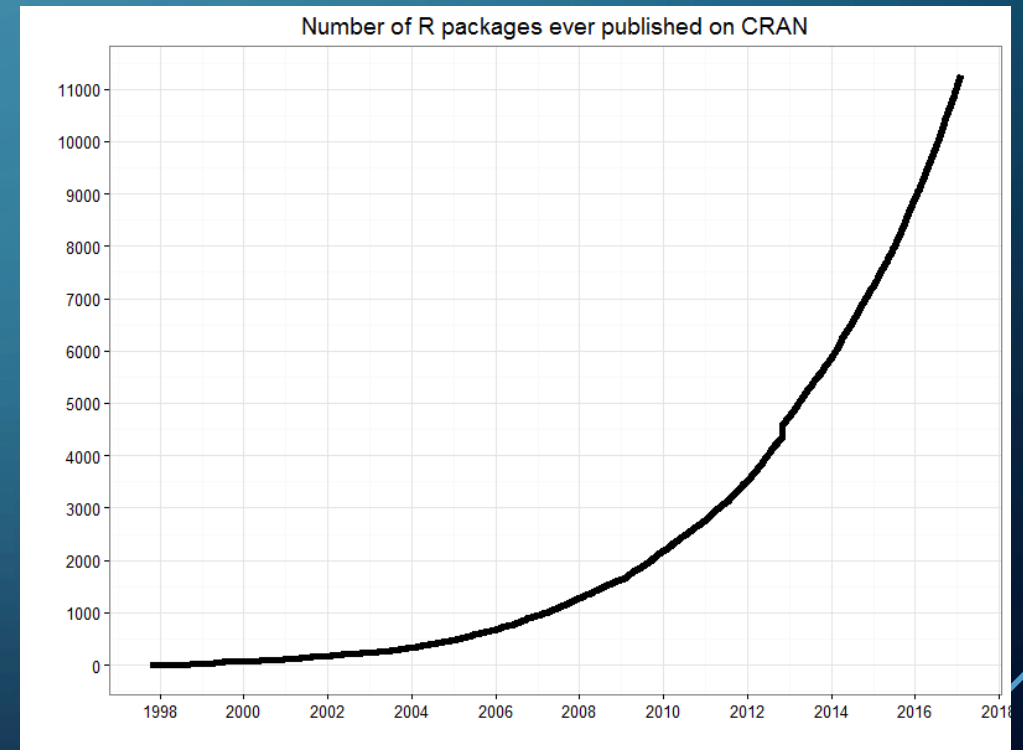
The image features a dark blue gradient background. In the corners, there are white line-art illustrations of circuit boards or neural network connections, consisting of lines and small circles.

```
[~]$ whoami
```

POWER OF R

R LANGUAGE + PACKAGES

- R is an open source language and environment for statistical computing and graphics.
- R is an open source (GNU) version of the S language developed by John Chambers et al. at Bell Labs in 80's
- R was initially written in early 1990's by Robert Gentleman and Ross Ihaka then with the Statistics Department of the University of Auckland


























from: <http://blog.revolutionanalytics.com/2017/01/cran-10000.html>

IEEE SPECTRUM TOP PROGRAMMING LANGUAGES

Language Types (click to hide)

☐ Web ☐ Mobile ☐ Enterprise ☐ Embedded

Language Rank	Types	2017 Spectrum Ranking	2016 Spectrum Ranking
1. Python	 	100.0	100.0
2. C	  	99.7	98.1
3. Java	  	99.4	98.0
4. C++	  	97.2	95.9
5. C#	  	88.6	87.7
6. R		88.1	86.5
7. JavaScript	 	85.5	82.5
8. PHP		81.4	81.8
9. Go	 	76.1	74.2
10. Swift	 	75.3	71.5
23. SQL		50.5	50.8

Compare a ranking. Click a data source to toggle its inclusion in the ranking and drag its slider to reweight it.

Use data from: 2017 2016 2015 2014

Google (search)	<input type="range" value="50"/>	Google (trends)	<input type="range" value="50"/>
Github (active)	<input type="range" value="50"/>	Github (created)	<input type="range" value="30"/>
Stack Overflow (?s)	<input type="range" value="30"/>	Stack Overflow (views)	<input type="range" value="30"/>
Reddit	<input type="range" value="20"/>	Hacker News	<input type="range" value="20"/>
Career Builder	<input type="range" value="5"/>	Dice	<input type="range" value="5"/>
Twitter	<input type="range" value="20"/>	IEEE Xplore	<input type="range" value="100"/>










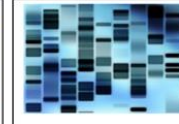






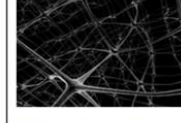


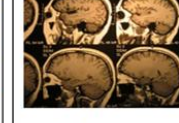

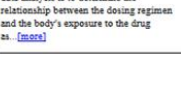



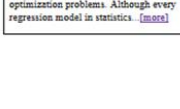


Cancel Save as Custom

POWER OF R R LANGUAGE + PACKAGES

CRAN: 11 000+ Add-on packages for R

CRAN Task Views

CRAN Task Views are guides to the packages and functions useful for certain disciplines and methodologies. Many long-term R users I know have no idea they exist. As an effort to make them more widely known I thought I'd jazz up the index page. Images are free to use, and got from [500px](#) stock photo site. Visual puns are mine. Task View links go to the [cran.r-project.org](#) site and not a mirror.

 Bayesian Inference Applied researchers interested in Bayesian statistics are increasingly attracted to R because of the ease of which one can code algorithms to sample. [more]	 Chemometrics and Computational Physics Chemometrics and computational physics are concerned with the analysis of data arising in chemistry and physics experiments, as well as the simulation of. [more]	 Clinical Trial Design, Monitoring, and Analysis This task view gathers information on specific R packages for design, monitoring and analysis of data from clinical trials. It focuses on including. [more]	 Cluster Analysis & Finite Mixture Models This CRAN Task View contains a list of packages that can be used for finding groups in data and modelling unobserved cross-sectional heterogeneity. Many... [more]	 Probability Distributions For most of the classical distributions, base R provides probability distribution functions (p), density functions (d), quantile functions (q), and. [more]	 Computational Econometrics Base R ships with a lot of functionality useful for computational econometrics, in particular in the stats package. This functionality is complemented by many... [more]	 Analysis of Ecological and Environmental Data This Task View contains information about using R to analyse ecological and environmental data. [more]	 Design of Experiments (DoE) & Analysis of Experimental Data This task view collects information on R packages for experimental design and analysis of data from experiments. Please feel free to suggest enhancements... [more]	 Empirical Finance This CRAN Task View contains a list of packages useful for empirical work in Finance, grouped by topic... [more]	 Statistical Genetics Great advances have been made in the field of genetic analysis over the last years. The availability of millions of single nucleotide polymorphisms (SNPs)... [more]
 Natural Language Processing This CRAN task view contains a list of packages useful for natural language processing... [more]	 Analysis of Pharmacokinetic Data The primary goal of pharmacokinetic (PK) data analysis is to determine the relationship between the dosing regimen and the body's exposure to the drug as... [more]	 Official Statistics & Survey Methodology This CRAN task view contains a list of packages that includes methods typically used in official statistics and survey methodology. Many packages provide... [more]	 Phylogenetics, Especially Comparative Methods The history of life unfolds within a phylogenetic context. Comparative phylogenetic methods are statistical approaches for analyzing historical... [more]	 Multivariate Statistics Base R contains most of the functionality for classical multivariate analysis, somewhere. There are a large number of packages on CRAN which extend this... [more]	 Optimization and Mathematical Programming This CRAN task view contains a list of packages which offer facilities for solving optimization problems. Although every regression model in statistics... [more]	 Machine Learning & Statistical Learning Several add-on packages implement ideas and methods developed at the borderline between computer science and statistics - this field of research is usually... [more]	 Graphic Displays & Dynamic Graphics & Graphic Devices & Visualization R is rich with facilities for creating and developing interesting graphics. Base R contains functionality for many plot types including coplots, mosaic... [more]	 High-Performance and Parallel Computing with R This CRAN task view contains a list of packages, grouped by topic, that are useful for high-performance computing (HPC) with R. In this context, we are... [more]	 Medical Image Analysis This task view is for input, output, and analysis of medical imaging files... [more]
 Analysis of Spatial Data Base R includes many functions that can be used for reading, visualizing, and analyzing spatial data. The focus in this view is on "geographical" spatial... [more]	 Survival Analysis Survival analysis, also called event history analysis in social science, or reliability analysis in engineering, deals with time until occurrence of an... [more]	 Time Series Analysis Base R ships with a lot of functionality useful for time series, in particular in the stats package. This is complemented by many packages on CRAN, which are... [more]	 Robust Statistical Methods Robust (or "resistant") methods for statistics modelling have been available in S from the start, in R in package stats (e.g., median(), mean(), trim =). [more]	 Statistics for the Social Sciences Social scientists use a wide range of statistical methods. To make the burden carried by this task view lighter, I have suppressed detail in some areas that... [more]	 gRaphical Models in R Wikipedia defines a graphical model as a graph that represents independencies among random variables by a graph in which each node is a random variable, and... [more]	 Reproducible Research The goal of reproducible research is to tie specific instructions to data analysis and experimental data so that scholarship can be recreated, better... [more]	 Psychometric Models and Methods Psychometrics is concerned with the design and analysis of research and the measurement of human characteristics. Psychometricians have also worked... [more]		

from: CRAN Task View by Barry Rowlingson: <http://www.maths.lancs.ac.uk/~rowlings/R/TaskViews/>
More packages on GitHub and BioConductor project



R is for hippies! ...(Quote from
a SAS user)

...or perhaps nerds with a quirky
sense of humor using words such as
Cran-tastic, Cranberries, and useRs



Activities and programs include:

- Promoting the growth and development of R as a leading platform for data science and statistical computing.
- Funding projects to enhance R and support its users.
- Fostering the continued growth of R community and the data science ecosystem.
- Enabling the use of R in commercial environments, and fostering collaboration between companies investing in R.

from: <https://www.r-consortium.org/about>

R Foundation Member



Platinum Members



Gold Members

Silver Members



DataCamp



esri



KETCHUM
TRADING, LLC



MANGO
SOLUTIONS



ProCogia

THE R ECOSYSTEM



R Core Group

 #rstats

CRAN

R-bloggers



R User Groups



 RDocumentation



consortium



from: <https://www.slideshare.net/RevolutionAnalytics/r-then-and-now>



CODE OF CONDUCT

A member of the R Community is:

Open: Members of the community are open to collaboration, whether it's on projects, working groups, packages, problems, or otherwise.

Considerate: Members of the community are considerate of their peers - other R users.

Respectful: Members of the community are respectful.



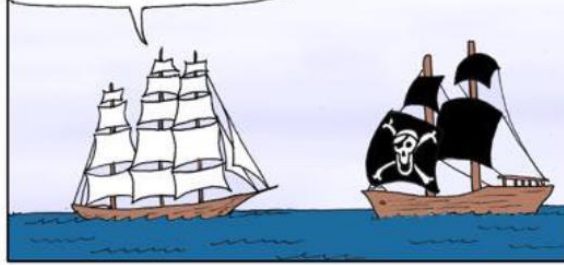


EVENTS

July 9-13: R Software Fundamentals with Applications to Statistical Analyses and Modelling. Wits, Johannesburg, South Africa.



Oh no, pirates!



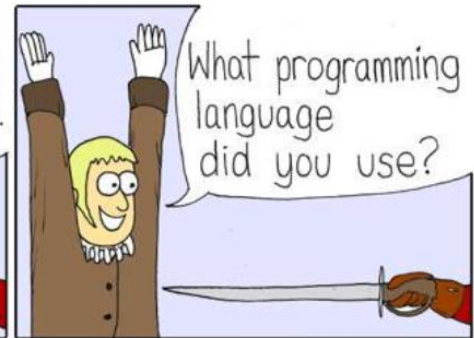
H... how did you find us?



I DEVELOPED SOFTWARE TO
CALCULATE YER MOST LIKELY
POSITION BASED ON STATISTICAL
ANALYSIS OF YER TRADE ROUTES.



That's... actually
quite impressive.



What programming
language
did you use?



R, MATEY.

HOW TO FIND US

- Website: <https://www.rusergroup.co.za>
- Meetup: <https://www.meetup.com/Joburg-R-Users-Group>
- Github: <https://github.com/rusergroupcoza>