

RStudio and R Resources

Happy Scientist Seminar

Emil Hvitfeldt

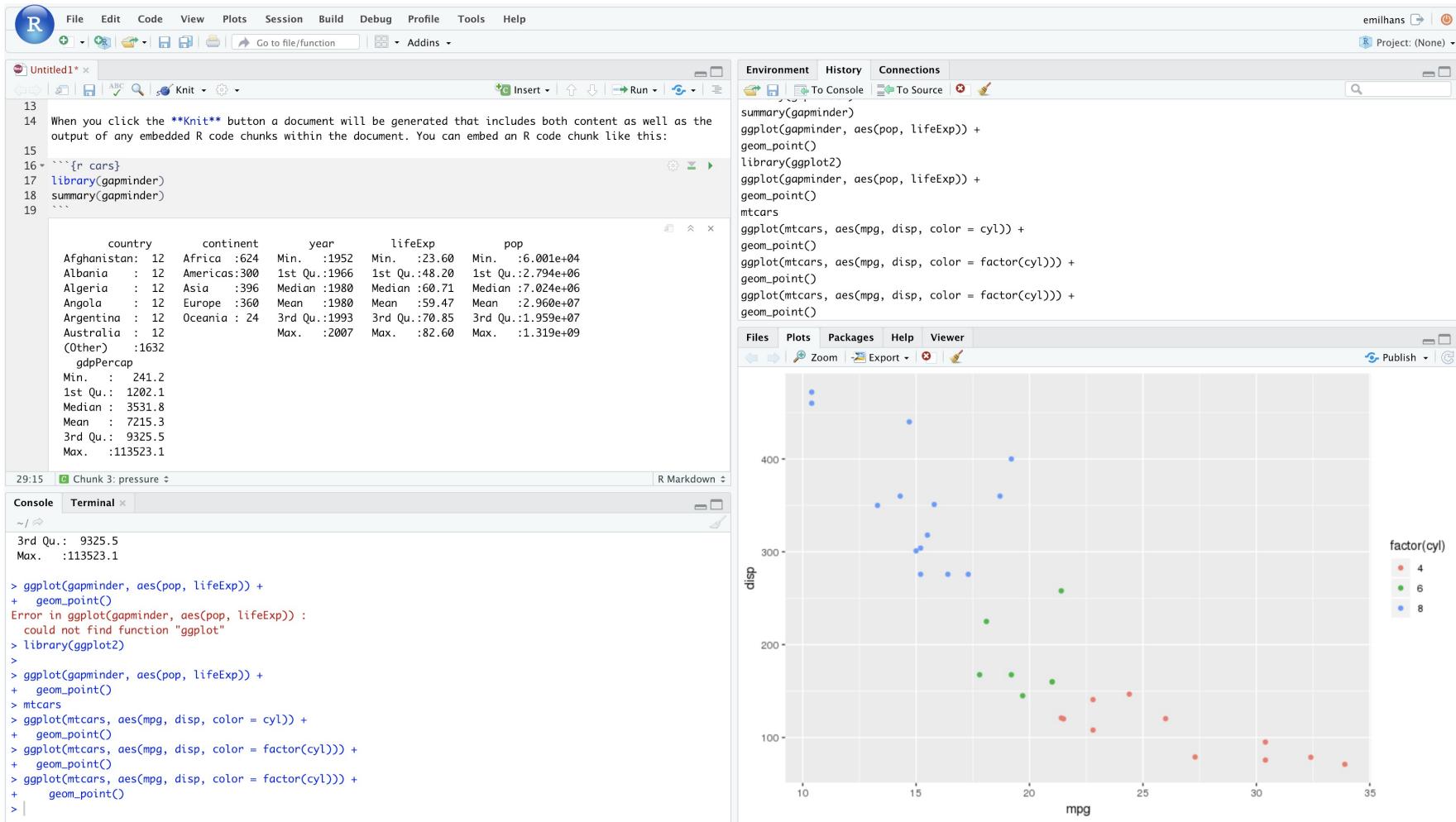
2019-1-22

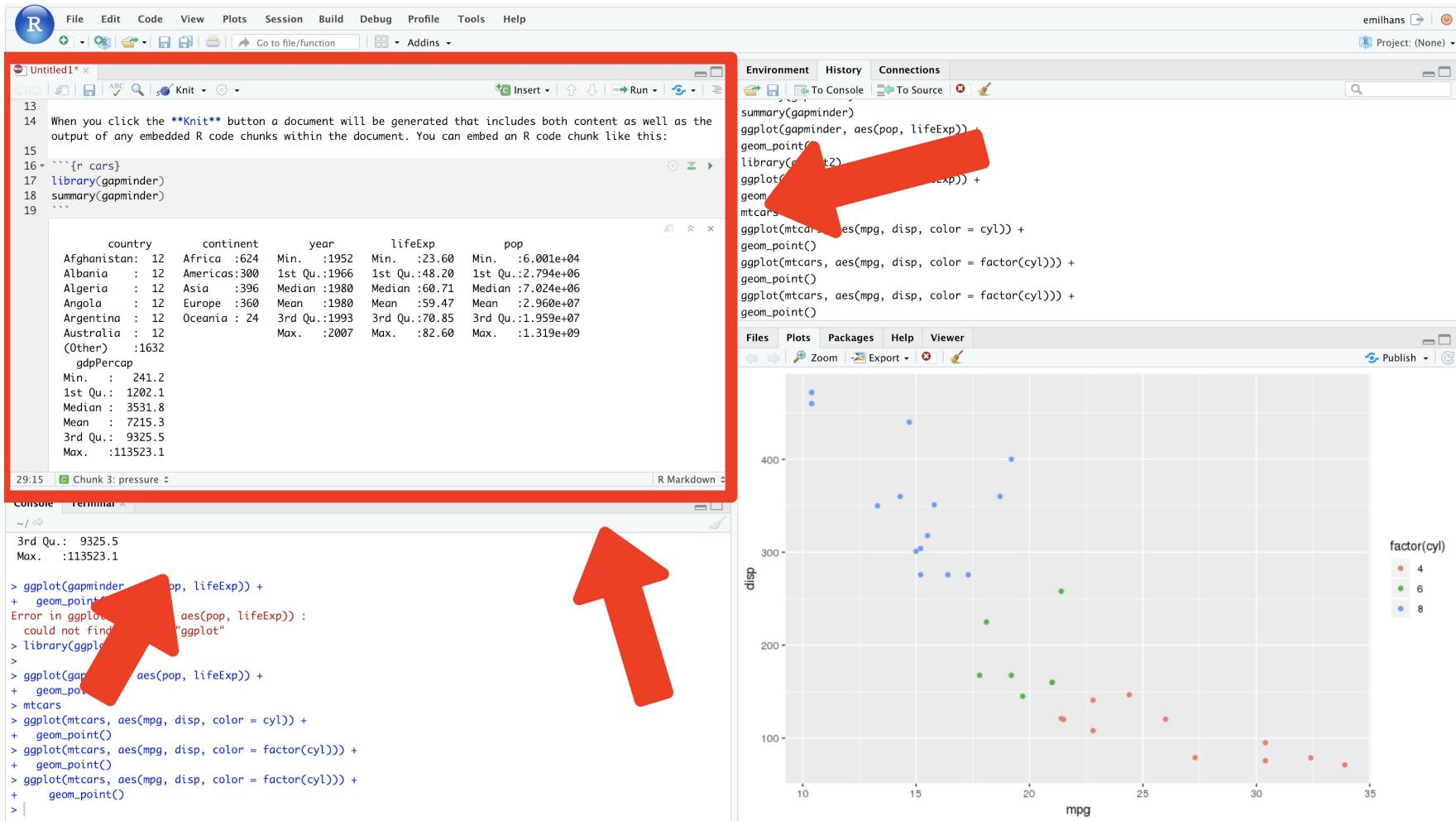
Motivation

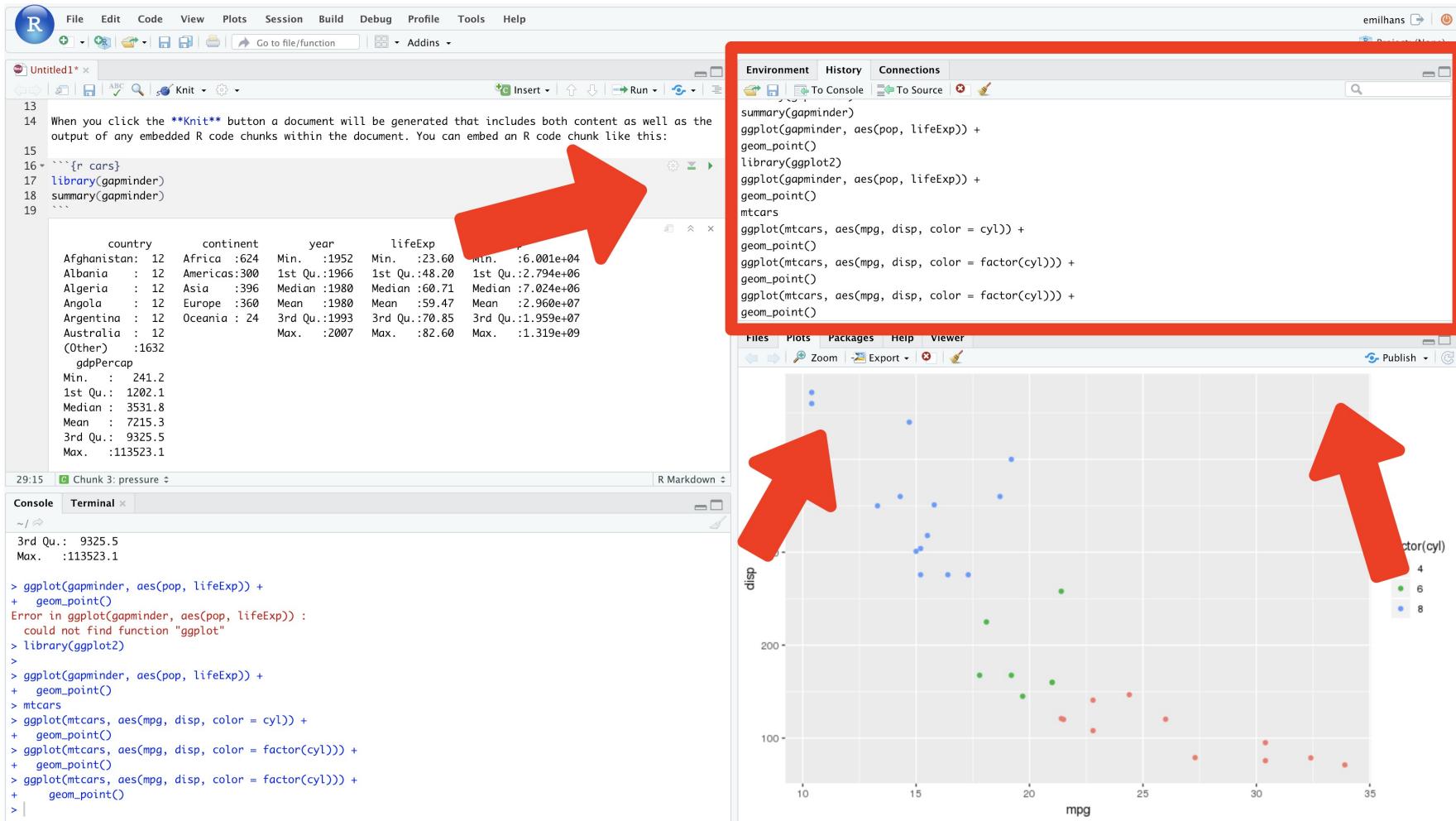
We will talk about what you are able to do in RStudio with R and where to find information and resources to do it great.

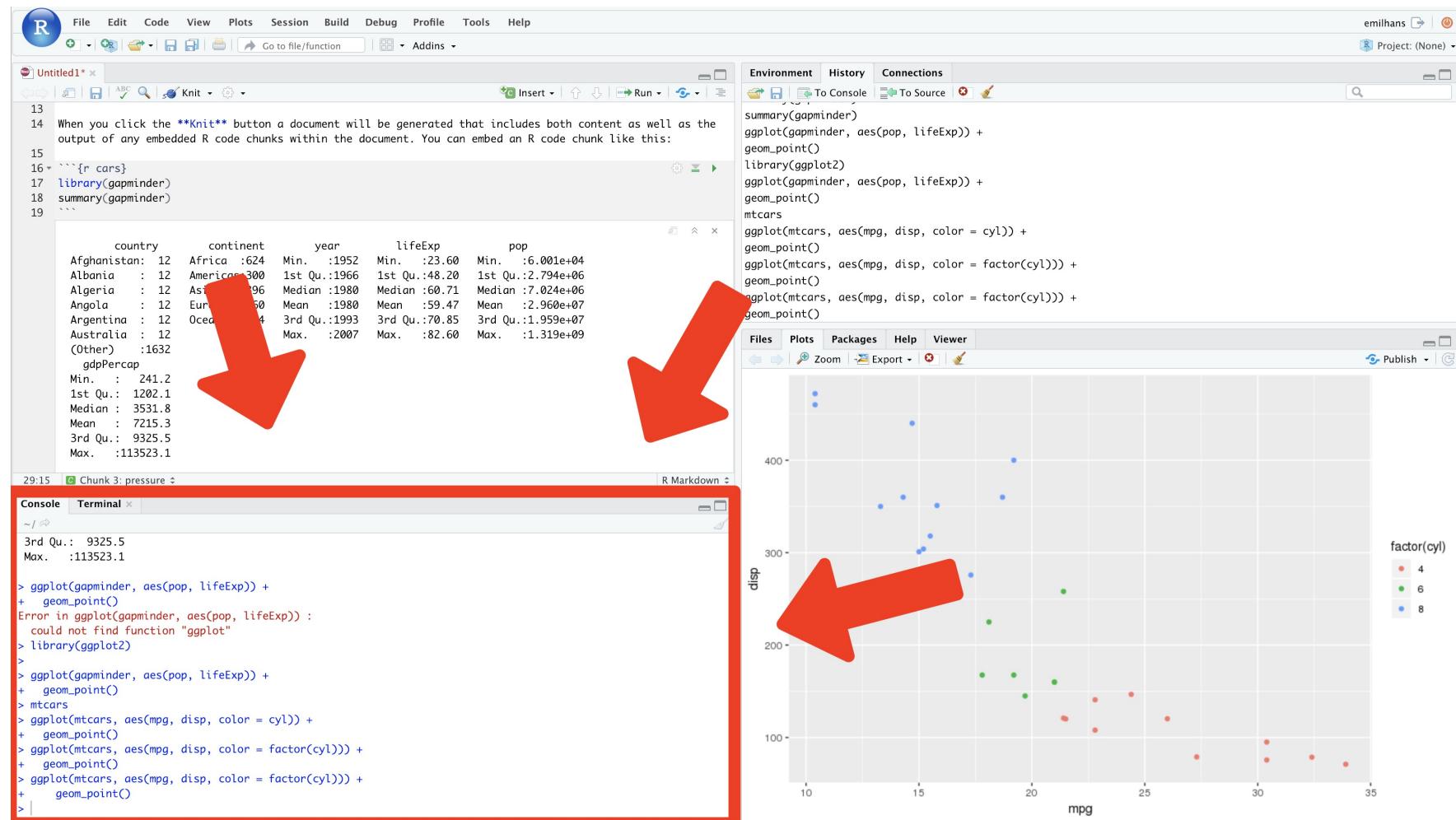


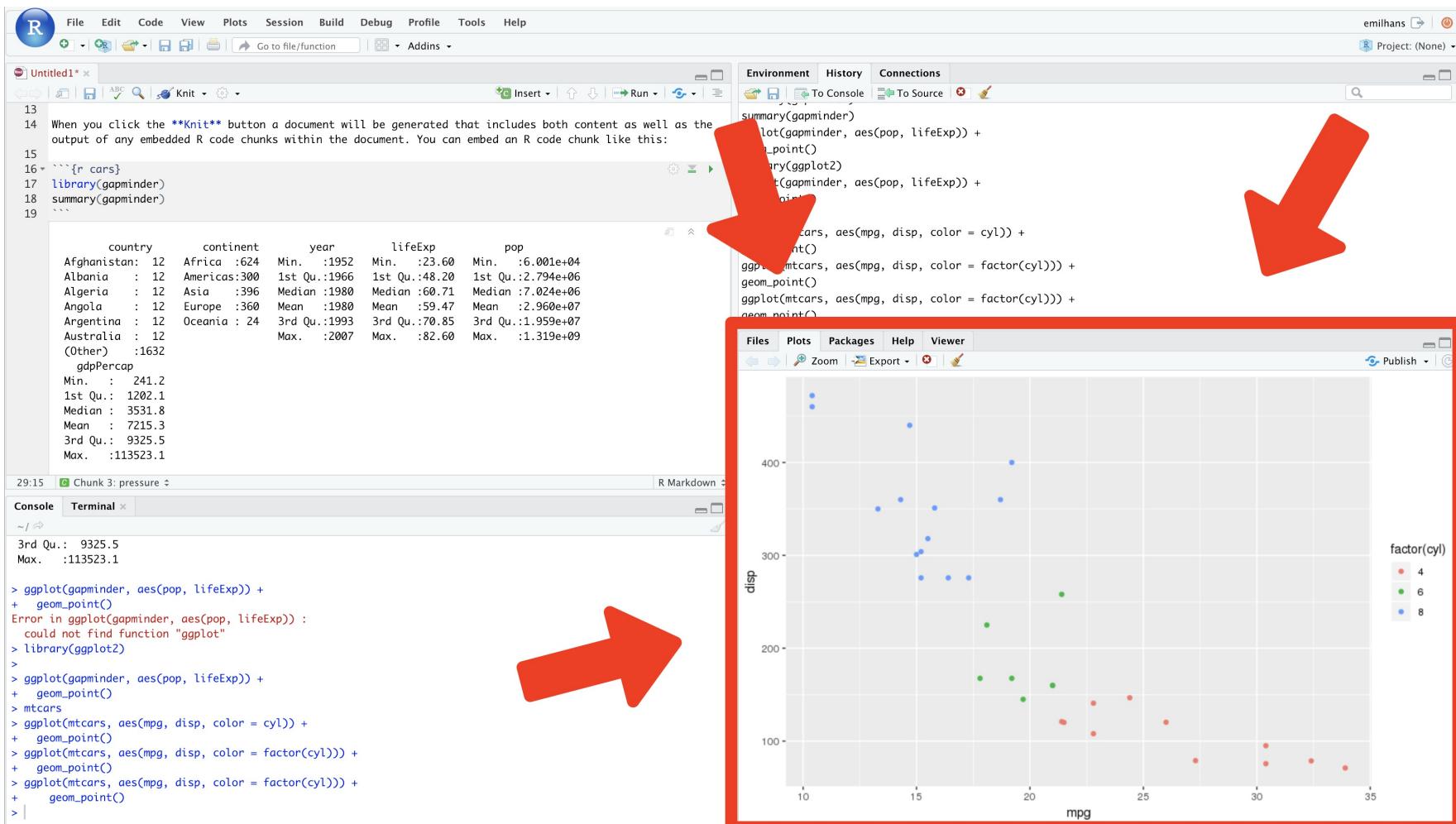
- Data analysis scripts
 - Interactive web applications
 - Documents
 - Reports
 - Graphs
 - more
- Syntax highlighting
 - code completion
 - smart indentation
 - Integrated R help
 - data viewer
 - Version control with Git











Packages

Idea -> Code -> Package -> Share -> Happiness

If you want to do something, chance has it someone have worked on it before

CRAN (The Comprehensive R Archive Network)



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Mirrors](#)
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[FAQs](#)
[Contributed](#)

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages. **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2018-12-20, Eggshell Igloo) [R-3.5.2.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

<https://cran.r-project.org/>

https://cran.r-project.org/web/packages/available_packages_by_name.html

Available CRAN Packages By Name

[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](#) [Z](#)

A3	Accurate, Adaptable, and Accessible Error Metrics for Predictive Models
abbyyR	Access to Abbyy Optical Character Recognition (OCR) API
abc	Tools for Approximate Bayesian Computation (ABC)
abc.data	Data Only: Tools for Approximate Bayesian Computation (ABC)
ABC.RAP	Array Based CpG Region Analysis Pipeline
ABCAnalysis	Computed ABC Analysis
abcdeFBA	ABCDE_FBA: A-Biologist-Can-Do-Everything of Flux Balance Analysis with this package
ABCOptim	Implementation of Artificial Bee Colony (ABC) Optimization
ABCp2	Approximate Bayesian Computational Model for Estimating P2
abcrf	Approximate Bayesian Computation via Random Forests
abctools	Tools for ABC Analyses
abd	The Analysis of Biological Data
abe	Augmented Backward Elimination
abf2	Load Gap-Free Axon ABF2 Files
ABHgenotypeR	Easy Visualization of ABH Genotypes
abind	Combine Multidimensional Arrays
abjutils	Useful Tools for Jurimetical Analysis Used by the Brazilian Jurimetrics Association
abn	Modelling Multivariate Data with Additive Bayesian Networks
abnormality	Measure a Subject's Abnormality with Respect to a Reference Population
abodOutlier	Angle-Based Outlier Detection
ABPS	The Abnormal Blood Profile Score to Detect Blood Doping
AbsFilterGSEA	Improved False Positive Control of Gene-Permuting GSEA with Absolute Filtering
AbSim	Time Resolved Simulations of Antibody Repertoires
abundant	High-Dimensional Principal Fitted Components and Abundant Regression
Ac3net	Inferring Directional Conservative Causal Core Gene Networks
ACA	Abrupt Change-Point or Aberration Detection in Point Series
acc	Exploring Accelerometer Data
accelerometry	Functions for Processing Accelerometer Data

<https://cran.r-project.org/web/views/>

CRAN Task Views

CRAN task views aim to provide some guidance which packages on CRAN are relevant for tasks related to a certain topic. They give a brief overview of the included packages and can be automatically installed using the [ctv](#) package. The views are intended to have a sharp focus so that it is sufficiently clear which packages should be included (or excluded) - and they are *not* meant to endorse the "best" packages for a given task.

- To automatically install the views, the [ctv](#) package needs to be installed, e.g., via

```
install.packages("ctv")
```

and then the views can be installed via `install.views` or `update.views` (where the latter only installs those packages are not installed and up-to-date), e.g.,

```
ctv::install.views("Econometrics")
```

```
ctv::update.views("Econometrics")
```
- The task views are maintained by volunteers. You can help them by suggesting packages that should be included in their task views. The contact e-mail addresses are listed on the individual task view pages.
- For general concerns regarding task views contact the [ctv](#) package maintainer.

Topics

Bayesian	Bayesian Inference
ChemPhys	Chemometrics and Computational Physics
ClinicalTrials	Clinical Trial Design, Monitoring, and Analysis
Cluster	Cluster Analysis & Finite Mixture Models
Databases	Databases with R
DifferentialEquations	Differential Equations
Distributions	Probability Distributions
Econometrics	Econometrics
Environmetrics	Analysis of Ecological and Environmental Data
ExperimentalDesign	Design of Experiments (DoE) & Analysis of Experimental Data
ExtremeValue	Extreme Value Analysis
Finance	Empirical Finance
FunctionalData	Functional Data Analysis
Genetics	Statistical Genetics
Graphics	Graphic Displays & Dynamic Graphics & Graphic Devices & Visualization
HighPerformanceComputing	High-Performance and Parallel Computing with R
Hydrology	Hydrological Data and Modeling
MachineLearning	Machine Learning & Statistical Learning
MedicalImaging	Medical Image Analysis
MetaAnalysis	Meta-Analysis
MissingData	Missing Data
ModelDeployment	Model Deployment with R
Multivariate	Multivariate Statistics
NaturalLanguageProcessing	Natural Language Processing
NumericalMathematics	Numerical Mathematics
OfficialStatistics	Official Statistics & Survey Methodology
Optimization	Optimization and Mathematical Programming
Pharmacokinetics	Analysis of Pharmacokinetic Data

<https://www.bioconductor.org/>

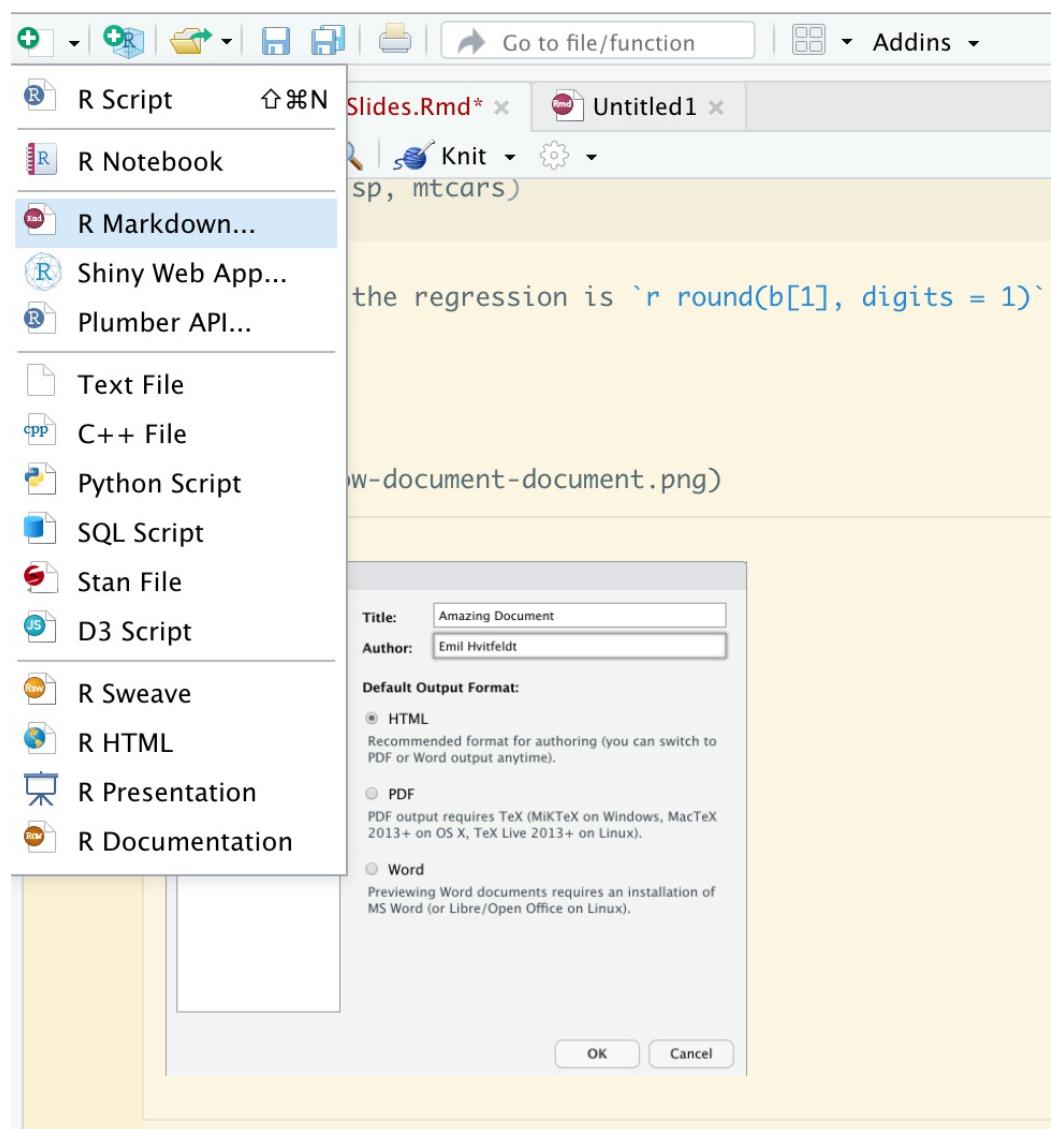
https://www.bioconductor.org/packages/release/BiocViews.html#__So

R Markdown

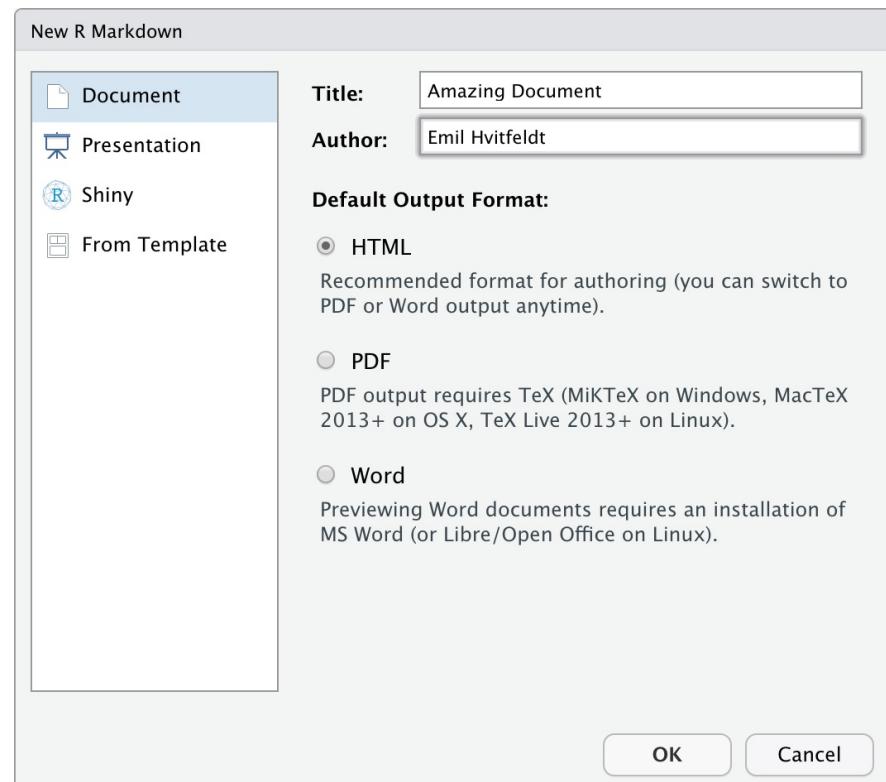


- Compile a single R Markdown document to a report in different formats, such as PDF, HTML, or Word.
- Make slides for presentations (HTML5, LaTeX Beamer, or PowerPoint).
- Build interactive applications based on Shiny.
- Write journal articles.
- Much more.

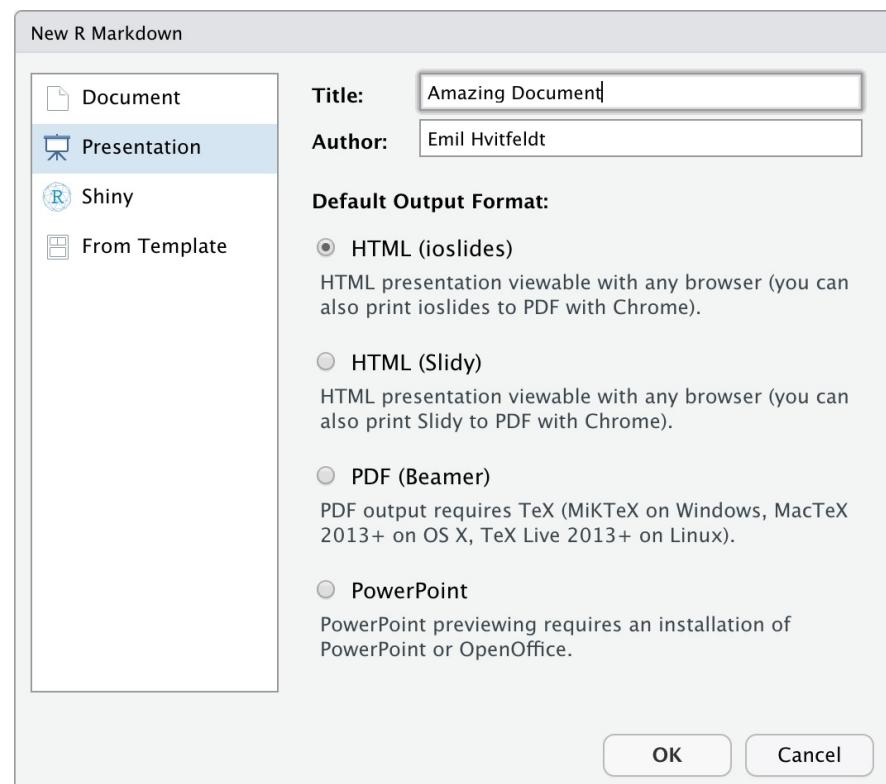
Creating a R Markdown file



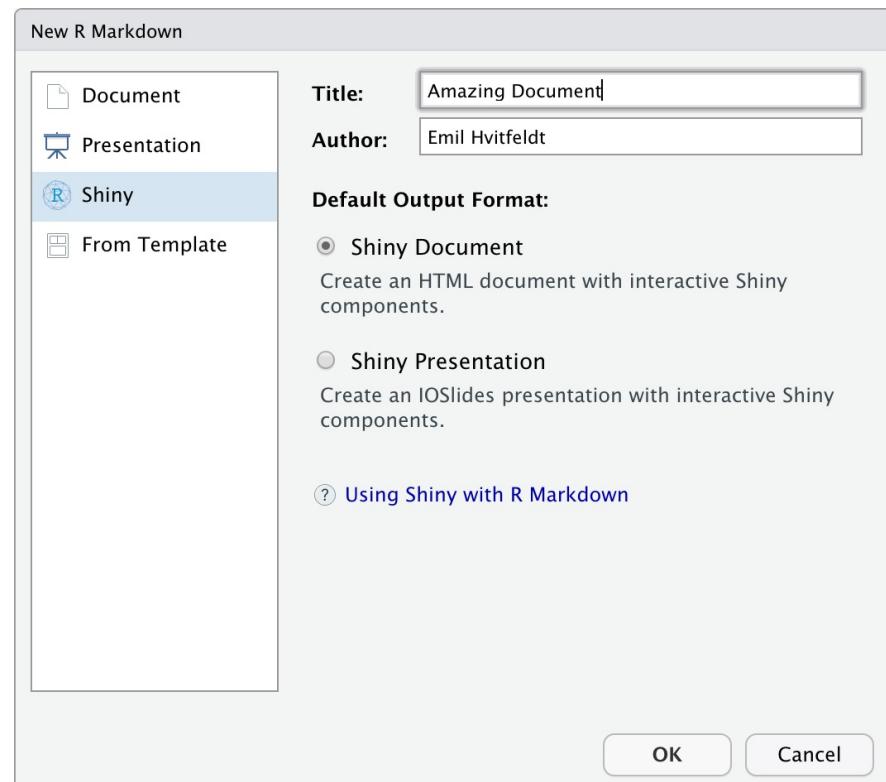
Creating a R Markdown file



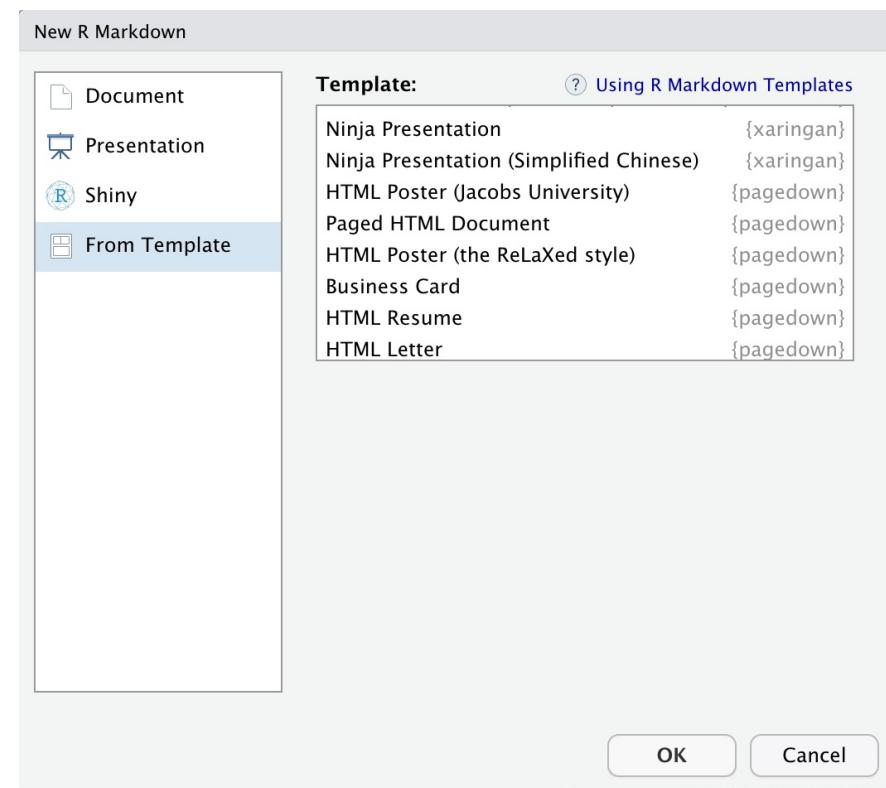
Creating a R Markdown file



Creating a R Markdown file



Creating a R Markdown file



```
---
```

```
title: "Amazing Document"
author: "Emil Hvitfeldt"
date: "1/20/2019"
output: html_document
```

```
---
```

YAML (optional)

```
---
title: "Amazing Document"
author: "Emil Hvitfeldt"
date: "1/20/2019"
output: html_document
---
```

YAML: YAML Ain't Markup Language

```
---
```

```
title: "Amazing Document"
author: "Emil Hvitfeldt"
date: "1/20/2019"
output: html_document
```

```
---
```

YAML (optional)

Chunks of code surrounded by

```
---
```

The R in R Markdown

```
---
```

```
title: "Amazing Document"
author: "Emil Hvitfeldt"
date: "1/20/2019"
output: html_document
```

```
---
```

Chunks of code surrounded by

```
---
```

Text with simple text formating.

YAML (optional)

The R in R Markdown

The Markdown in R Markdown

What we write

```
---
```

```
author: "Emil Hvitfeldt"
date: "1/20/2019"
output: html_document
```

```
--
```

We built a **linear** regression model.

```
```{r}
fit <- lm(mpg ~ disp, data = mtcars)
b <- coef(fit)
plot(mpg ~ disp, mtcars)
```
```

The slope of the regression is `r
round(b[1], digits = 1)` in the output.

What we write

```
---
```

```
author: "Emil Hvitfeldt"  
date: "1/20/2019"  
output: html_document
```

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```
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What we get

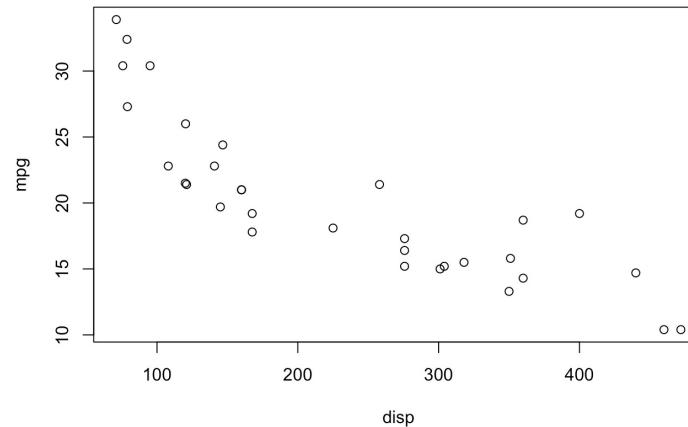
Amazing Document

Emil Hvitfeldt

1/20/2019

We built a **linear** regression model.

```
fit <- lm(mpg ~ disp, data = mtcars)
b   <- coef(fit)
plot(mpg ~ disp, mtcars)
```



The slope of the regression is 29.6 in the output.

What we write

```
---
```

```
author: "Emil Hvitfeldt"
date: "1/20/2019"
output: pdf_document
```

```
--
```

We built a **linear** regression model.

```
```{r}
fit <- lm(mpg ~ disp, data = mtcars)
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```
```

The slope of the regression is `r
round(b[1], digits = 1)` in the output.

What we write

```
---
```

```
author: "Emil Hvitfeldt"
```

```
date: "1/20/2019"
```

```
output: pdf_document
```

We built a **linear** regression model.

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What we get

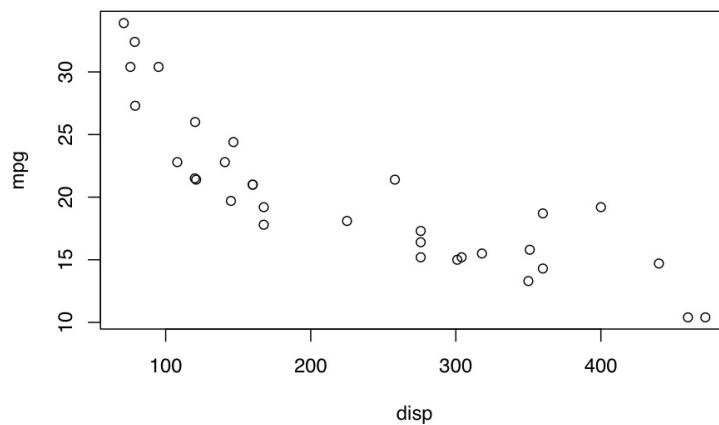
Amazing Document

Emil Hvitfeldt

1/20/2019

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plot(mpg ~ disp, mtcars)
```



The slope of the regression is 29.6 in the output.

Build-in Formats

- github_document
- html_document
- latex_document
- md_document
- odt_document
- pdf_document
- rtf_document
- word_document
- ioslides_presentation
- powerpoint_presentation
- slidify_presentation
- beamer_presentation

Notable Extensions

Notable Extensions

- xaringan

Notable Extensions

- xaringan
- flexdashboard

Notable Extensions

- xaringan
- flexdashboard
- learnr

Notable Extensions

- xaringan
- flexdashboard
- learnr
- rrticles

xaringan

[ʃæ.'rin̩.gæn]

build passing

An R package for creating slideshows with [remark.js](#) through R Markdown. The package name **xaringan** comes from [Sharingan](#), a dōjutsu in Naruto with two abilities: the "Eye of Insight" and the "Eye of Hypnotism". A presentation ninja should have these basic abilities, and I think `remark.js` may help you acquire these abilities, even if you are not a member of the Uchiha clan.

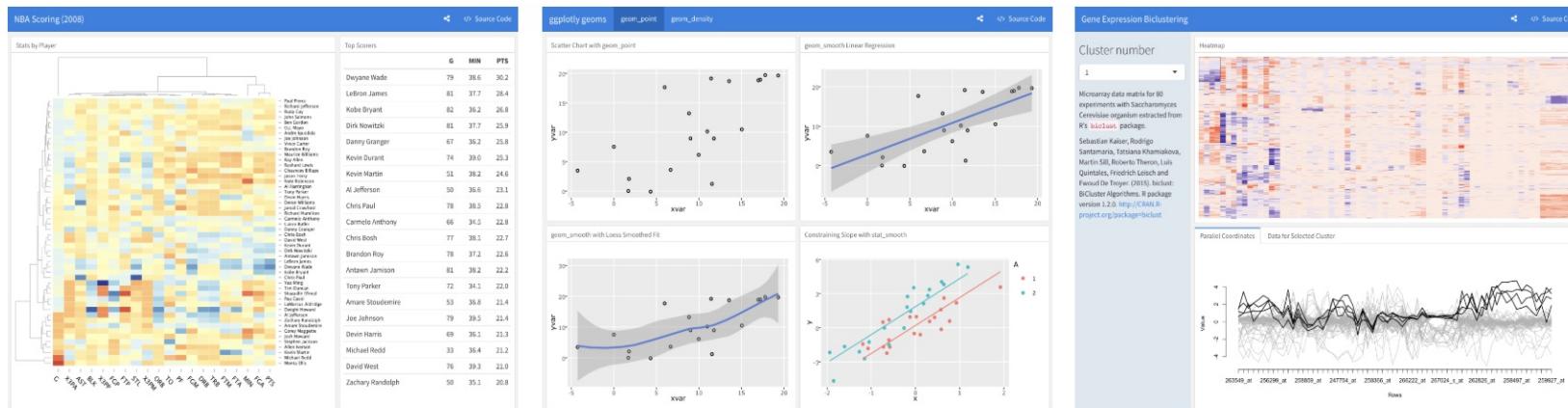
Please see the full documentation as a [presentation here](#) ([中文版在此](#)). The [remark.js](#) website provides a quick introduction to the underlying syntax upon which **xaringan** builds. If you prefer reading a book, **xaringan** is also documented in [the R Markdown book \(Chapter 7\)](#). You can use `remotes` to install the package:



<https://github.com/yihui/xaringan>

flexdashboard: Easy interactive dashboards for R

- Use [R Markdown](#) to publish a group of related data visualizations as a dashboard.
- Support for a wide variety of components including [htmlwidgets](#); base, lattice, and grid graphics; tabular data; gauges and value boxes; and text annotations.
- Flexible and easy to specify row and column-based [layouts](#). Components are intelligently re-sized to fill the browser and adapted for display on mobile devices.
- [Storyboard](#) layouts for presenting sequences of visualizations and related commentary.
- Optionally use [Shiny](#) to drive visualizations dynamically.



Learn more about flexdashboard: <http://rmarkdown.rstudio.com/flexdashboard/>

Sales Forecast

i
l
e

Sales by State

learnr: Interactive tutorials for R

The **learnr** package makes it easy to turn any [R Markdown](#) document into an interactive tutorial. Tutorials consist of content along with interactive components for checking and reinforcing understanding. Tutorials can include any or all of the following:

1. Narrative, figures, illustrations, and equations.
2. Videos (supported services include YouTube and Vimeo).
3. Code exercises (R code chunks that users can edit and execute directly).
4. Quiz questions.
5. Interactive Shiny components.

You can find documentation on using the **learnr** package here: <https://rstudio.github.com/learnr/>

Welcome

Visualisation is an important tool for generating insights, but your data won't always arrive ready to visualize. Often you'll need to filter unwanted observations from your data or create new variables and summaries to visualize. In this tutorial, you will learn how to filter your data, including:

- How to use `filter()` to extract observations that pass a logical test
- How to write logical comparisons in R
- How to combine logical comparisons with Boolean operators
- How to handle missing values within comparisons

The readings in this tutorial follow *R for Data Science* (<http://r4ds.had.co.nz/>), section 5.2.

[Continue](#)

The **rticles** package provides a suite of custom [R Markdown](#) LaTeX formats and templates for various formats, including:

- [ACM](#) articles
- [ACS](#) articles
- [AEA](#) journal submissions
- [AMS](#) articles
- [Biometrics](#) articles
- [Bulletin de l'AMQ](#) journal submissions
- [CTeX](#) documents
- [Elsevier](#) journal submissions
- [IEEE Transaction](#) journal submissions
- [JSS](#) articles
- [MDPI](#) journal submissions
- [Monthly Notices of the Royal Astronomical Society](#) articles
- [NNRAS](#) journal submissions
- [PeerJ](#) articles
- [Royal Society Open Science](#) journal submissions
- [Sage](#) journal submissions
- [Springer](#) journal submissions

Shiny

Combines the computational power of R with the interactivity of the modern web.

Powerful web framework.



<https://gallery.shinyapps.io/050-kmeans-example/>

Iris k-means clustering

X Variable
Sepal.Length

Y Variable
Sepal.Width

Cluster count
3

Kmeans example
by Joe Cheng <joe@rstudio.com>
(<http://www.rstudio.com/>)

server.R

ui.R

show with app

```
function(input, output, session) {  
  
  # Combine the selected variables into a new data frame  
  # ...  
}
```

37 / 52

<https://gallery.shinyapps.io/082-word-cloud/>

Word Cloud

Choose a book:

A Mid Summer Night's Dream

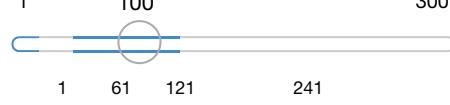
Change

Minimum Frequency:



1 15 50
1 11 21 31 41

Maximum Number of Words:



1 100 300
1 61 121 241

Word cloud

by Fereshteh Karimeddini
<fereshteh@rstudio.com>
(<http://www.rstudio.com/>)

A simple word cloud generator, based on

global.R

server.R

ui.R

↑ show with app

```
# Text of the books downloaded from:  
# A Mid Summer Night's Dream:  
# http://www.gutenberg.org/cache/epub/2242/pg2242.txt
```

38 / 52

<https://gallery.shinyapps.io/086-bus-dashboard/>

Show

- Northbound
- Southbound
- Eastbound
- Westbound

Note: a route number can have several different trips, each with a different path. Only the most commonly-used path will be displayed on the map.

[Zoom to fit buses](#)

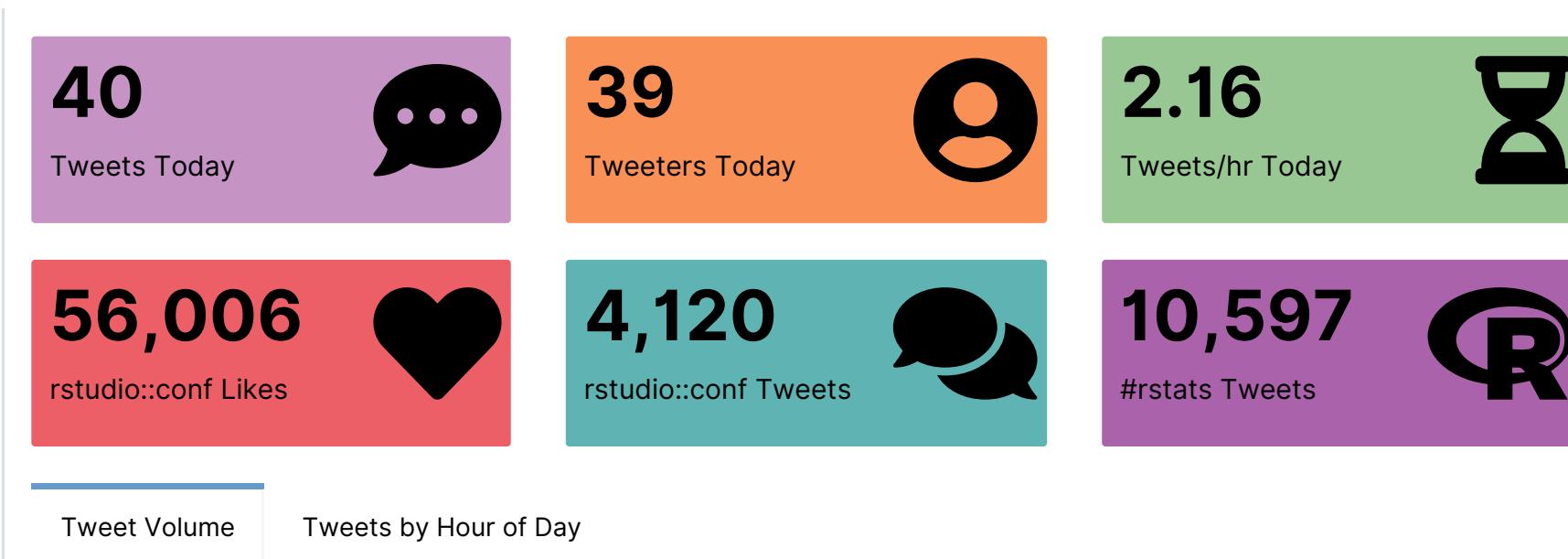
Refresh interval

1 minute ▾

[Refresh now](#)

Source data updates every 30 seconds.

<https://apps.garrickadenbuie.com/rstudioconf-2019/>



❤️ Most Liked in 12 Hours

40 / 52

<http://www.dataseries.org/>

Choose variable, e.g., GDP

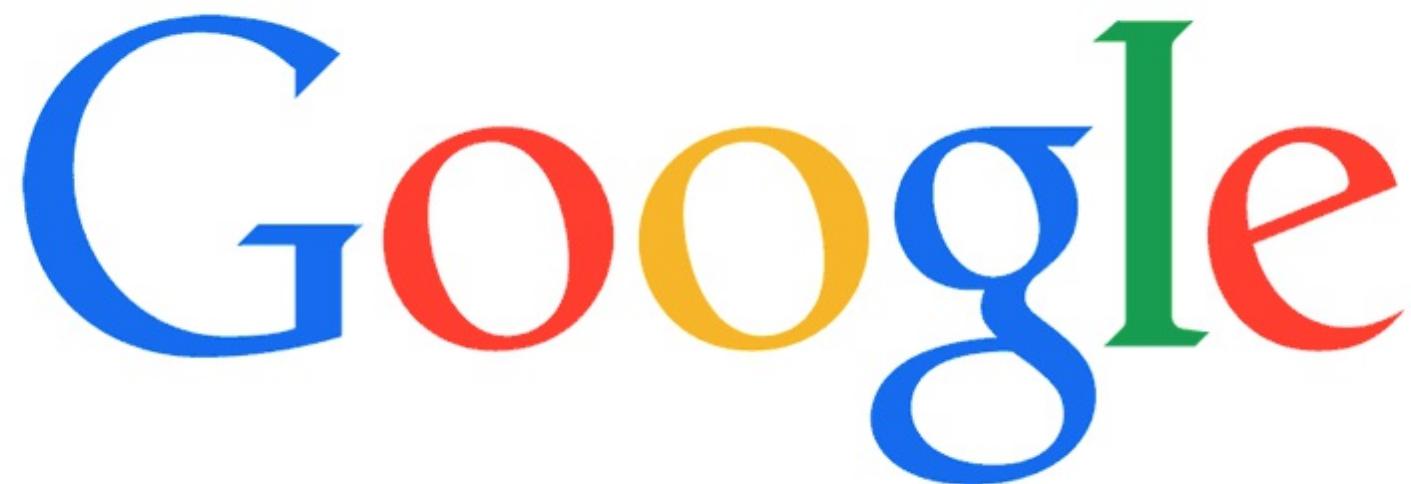
TIDIED UP

Switzerland's data series in one place

Where do I go for more information?

- Cheatsheets
- Books
- rweekly.org
- Forums
- USCbiostats/software-dev

Have a question? Google it



<https://www.google.com/>

parsnip



All Images Shopping News Videos More

Settings Tools

About 9,150,000 results (0.46 seconds)

Parsnip - Wikipedia

<https://en.wikipedia.org/wiki/Parsnip> ▾



The parsnip (*Pastinaca sativa*) is a root vegetable closely related to the carrot and parsley. It is a biennial plant usually grown as an annual. Its long, tuberous ...

[Description](#) · [Taxonomy](#) · [Nutrients](#) · [Cultivation](#)

Roasted Parsnips - How to Cook Parsnips - Parsnip Recipes

<https://www.fifteenspatulas.com> › Recipes › Vegetable Sides ▾



★★★★★ Rating: 5 - 11 votes - 45 min - 230 cal

Apr 14, 2018 - Roasted **Parsnips** are simple to make and incredibly delicious as a vegetable side to any dinner. They have a natural sweetness that ...

What is Parsnip Good For? - Mercola Food Facts - Dr. Mercola

<https://foodfacts.mercola.com> › Vegetables ▾



Jan 9, 2017 - But what about the other vegetables that are not often given the same attention, though they are equally healthy? The **parsnip** is one example ...



[More images](#)

Parsnips

Vegetable



The parsnip is a root vegetable closely related to the carrot and parsley. It is a biennial plant usually grown as an annual. Its long, tuberous root has cream-colored skin and flesh, and left in the ground to mature, it becomes sweeter in flavor after winter frosts. [Wikipedia](#)

Nutrition Facts

[Parsnips](#) ▾

<https://rseek.org/>



Created and maintained by [Sasha Goodman](#).
Serving the R community since 2007. Version 2.0.

[Privacy Policy](#)

[Download and Install R](#)

<https://rseek.org/>



parship

All Github Package Documentation R-project Blog Source RStudio Twitter Popular Package

About 389,000 results (0.32 seconds) Sort by: Relevance

CRAN - Package parsnip
<https://cran.r-project.org/package=parsnip>
Nov 12, 2018 ... **parsnip**: A Common API to Modeling and Analysis Functions. A common ... Author: Max Kuhn [aut, cre], Davis Vaughan [aut], RStudio [cph].
Labeled [Package](#) [R-project](#)

parsnip - Tidyverse
<https://www.tidyverse.org/articles/2018/11/parsnip-0-0-1/>
 The **parsnip** package is now on CRAN. It is designed to solve a specific problem related to model fitting in **R**, the interface. Many functions have different ...

Examples of non-linear optimization with dials and parsnip help ...
<https://community.rstudio.com/t/examples-of...parsnip.../19603>
 Dec 9, 2018 ... RStudio Community · Examples of non-linear optimization with dials and **parsnip** help · Machine Learning and Modeling · tidymodels ...
Labeled [Issues](#) [RStudio](#)

R Weekly 2018-49 parsnip, Validation | RWeekly.org - Blogs to ...
<https://rweekly.org/2018-49.html>
 Dec 3, 2018 ... R Weekly 2018-49 **parsnip**, Validation ... **R** in the Real World ... How to work with strings in base **R** - An overview of 20+ methods for daily ...
Labeled [Blog](#)

Cheatsheets

Tidy evaluation with rlang :: CHEAT SHEET

Vocabulary

Tidy Evaluation (Tidy Eval) is not a package, but a framework for doing non-standard evaluation (i.e. delayed evaluation) that makes it easier to program with tidyverse functions.

pi A name that represents a value or object in R. It's a **symbol**.

Environment - a list like object that binds symbols (names) to objects stored in memory. Each env contains a link to a second, **parent** env, which links to another, and so on, until it reaches the **current_env**, which is the environment of the function it is in.

rlang::caller_env() Returns calling env of the function it is in.

rlang::child_env(...) Creates a new environment with the current env as its **parent**.

rlang::current_env() Returns execution env of the function it is in.

Constant - a base value (i.e. an atomic vector of length 1). *l*, *b*, *envir*, *env*[*i*]

abs - **[1]** Call object - a vector of symbols/constants/calls that begins with a function name, possibly followed by arguments. *is_caller(rlang::abs)*

pi - code - result **[3.14]** result

e **[e]**

q **[q]**

a + b

Quoting Code

Quote code in one of two ways (if in doubt use a quoise):

QUOSURES

rlang::expr() Quote contents. Also **quo** to quote multiple expressions. *a ~ 1*, *b ~ 2*, *e ~ expr(a + b)* *qs <- quo(e)*, *qs ~ quo(e)*

rlang::enexpr(arg) Call from within a function to quote what the user passed an argument as a quoise. Also **enquo** for multiple args. *quo(e, env = enexpr(e))*

rlang::new_quosure(expr, env = caller_env()) Build a quoise from a quoted expression and an environment. *new_quosure(quo(a), current_env())*

Parsing and Deparsing

Parse - Convert a string to a saved expression.

Deparse - Convert a saved expression to a string.

rlang::parse_expr() Convert a string to an expression. Also **parse**. *parse("x + y")*

rlang::expr_to_text(expr, width = 60, nlines = Inf) Convert expr to a string. Also **quo_name**. *parse("x + y")*

quo **[quo]** **quo_get_env()** Returns the environment of a quoise.

quo_set_env() Set the environment of a quoise.

a + b **[quo_get_quo()]** Returns the quoise for a quoise.

Expression vector - a list of pieces of quoted code created by base R's expression and quoise functions. Not to be confused with **expression**.

R Studio

Data Visualization with ggplot2 :: CHEAT SHEET

Basics

Geoms Use a geom function to represent data points; use the geom's aesthetic properties to represent variables. Each function returns a layer.

GRAPHICAL PRINCIPLES

ggplot2 is based on the **grammar of graphics**, the idea that you can build every graph from the same components: a data source, **geom**, **stat**, **coord**, **layer**, and **geoms**—visual marks that represent data points.

continuous **x**, **continuous y**

continuous bivariate distribution

continuous function

discrete x, continuous y

discrete

maps

THREE VARIABLES

R Studio

<https://www.rstudio.com/resources/cheatsheets/>

Books

<https://bookdown.org/>



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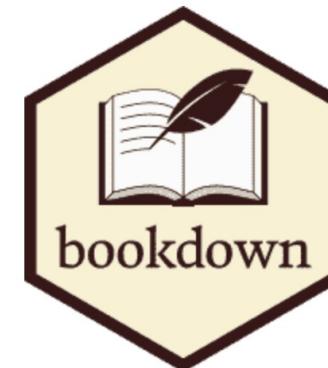
BOOKDOWN

Write HTML, PDF, ePUB, and Kindle books with R Markdown

The **bookdown** package is an [open-source R package](#) that facilitates writing books and long-form articles / reports with R Markdown. Features include:

- Generate printer-ready books and ebooks from R Markdown documents.
- A markup language easier to learn than LaTeX, and to write elements such as section headers, lists, quotes, figures, tables, and citations.
- Multiple choices of output formats: PDF, LaTeX, HTML, EPUB, and Word.
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Below is a list of featured books. For a full list, please see the [archive](#) page. For the full documentation of the **bookdown** package, please see the free [online book](#) *bookdown: Authoring Books and Technical Documents with R Markdown*.



Books

R Programming for Data Science

by Roger D. Peng

2016-12-22



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R Programming
for Data Science

The R programming language has become the de facto programming language for data science. Its flexibility, power, sophistication, and expressiveness have made it an invaluable tool for data scientists around the world. This book is about the fundamentals of R programming. You will get started with the basics of the language, learn how to manipulate datasets, how to write functions, and how to debug and optimize code. With the fundamentals provided in this book, you will have a solid foundation on which to build your data science toolbox. *Read more →*

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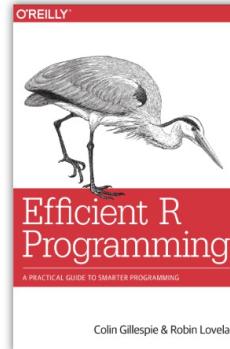
Efficient R programming

by Colin Gillespie, Robin Lovelace

2016-11-30



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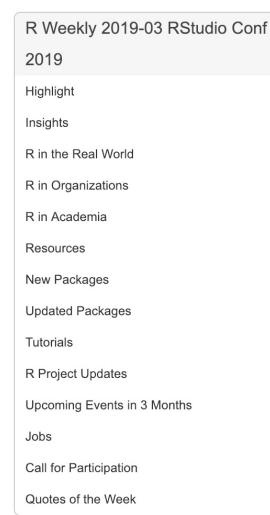


Colin Gillespie & Robin Lovelace

Efficient R Programming is about increasing the amount of work you can do with R in a given amount of time. It's about both computational and programmer efficiency. [...] This is the online version of the O'Reilly book: Efficient R programming. Pull requests and general comments are welcome. Colin Gillespie is Senior lecturer (Associate professor) at Newcastle University, UK. His research interests are high performance statistical computing and Bayesian statistics. He is regularly employed as a consultant by Jumping Rivers and has been teaching R since 2005 at a variety of levels, ranging ... *Read more →*

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Live

- [hrbrthemes 0.6.0 on CRAN + Other In-Development Package News](#) (rud.is)
- [eventstudies Event Study Analysis](#) (cran.r-project.org)
- [CluMix Clustering and Visualization of Mixed-Type Data](#) (cran.r-project.org)

More

R Weekly 2019-03 RStudio Conf 2019

21 Jan 2019

type to filter

Release Date: 2019-01-21

Highlight

- [RStudio Conf 2019 Slides - Karl Broman](#)
 - Contains workshop materials and presentation slides for RStudio Conf (github.com)
- [The Unreasonable Effectiveness of Public Work](#) (dropbox.com)
- [Our Colour of Magic: The open sourcery of fantastic R packages](#) (docs.google.com)

Insights

- [You did a sentiment analysis with tidytext but you forgot to do dependency parsing to answer WHY is something positive/negative](#) (bnosac.be)





<https://community.rstudio.com/>



<https://stackoverflow.com/>

<https://github.com/USCbiostats/software-dev>

Software Development Standards

This project's main contents is located in the project's [Wiki](#):

Coding Standards

1. [Coding Standards](#)
2. [Software Thinking](#)
3. [Development Workflow](#)
4. [Misc](#)

We do have some direct guidelines developed as issue templates [here](#).

Bioghost Server

1. [Introduction](#)
2. [Setup](#)
3. [Cheat Sheet](#)

HPC in R

- [Parallel computing in R](#)
- [parallel](#)
- [iterators+foreach](#)
- [RcppArmadillo + OpenMP](#)