

لغة الآر من الصفر إلى الإحتراف

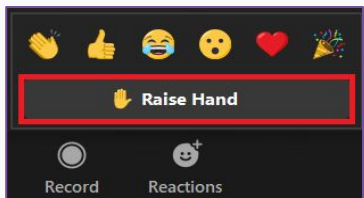
at first I was like...



Credit: Allison Horst

...but now it's like...





قواعد الدورة

● كتابة الاسم في Google Doc

○ الإجابة على Icebreaker question

● إطفاء الجوال

● يُفضل فتح الكاميرا

● لا تتردد في طرح أي سؤال خلال الجلسة

● Slack

مرحبا في كورس "لغة الأر (R) من الصفر إلي الإحتراف"

المدرية: د بتول المزوق

الأسبوع: الأول

التاريخ: ٢٢ يونيو ٢٠٢٢

وصف الجلسة:

في هذه الجلسة سنتعرف على الخطة التعليمية مع بيان أهمية استخدام لغة آر (R) وإبراز دورها المميز في علم البيانات. لغة آر (R) هي لغة مفتوحة المصدر تُستخدم في التمثيل المرئي للبيانات وتعدديتها، بالإضافة إلى النمذجة. وقد احتلت أعلى المراتب في تصنيفات لغات البرمجة المستخدمة في علوم البيانات على مدار عدة سنوات، مما أدى إلى تزايد استخدامها.

تسجيل الأسماء

الاسم / المدينة / حسابات وسائل التواصل الاجتماعي لمن يرغب (twitter و GitHub وما إلى ذلك)

-
-
-
-
-
-
-



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خطة الدورة التدريبية

الأسبوع	نوع المحاضرة	اليوم	التاريخ	الساعة (بتوقيت السعودية)	المدة بالساعات
الرابع	محاضرة مباشرة	الخميس	28 يوليو 2022	من 11:30 إلى 13:30 مساءً	1
الخامس	محاضرة مباشرة	الثلاثاء	2 أغسطس 2022	من 13:30 إلى 15:30 مساءً	2
	محاضرة مباشرة	الأربعاء	3 أغسطس 2022	من 12:30 إلى 14:30 مساءً	2
	ساعة مكتبية	الثلاثاء	2 أغسطس 2022	من 14:30 إلى 15:30 مساءً	1
السادس	محاضرة مباشرة	الثلاثاء	9 أغسطس 2022	من 13:30 إلى 15:30 مساءً	2
	محاضرة مباشرة	الأربعاء	10 أغسطس 2022	من 14:30 إلى 16:30 مساءً	2
	ساعة مكتبية	الأربعاء	10 أغسطس 2022	من 15:30 إلى 16:30 مساءً	1
السابع	عرض المشروعات النهائية	الأربعاء	17 أغسطس 2022	من 14:30 إلى 16:30 مساءً	2
	عرض المشروعات النهائية	الخميس	18 أغسطس 2022	من 12:30 إلى 14:30 مساءً	2

One-to-one Sessions this Thursday
And optional Terminal Session



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And optional Terminal Session



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تجهيز لجلسات هذا الأسبوع

```
install.packages(c("usethis", "devtools", "roxygen2",  
"janitor", "renv", "pkgdown"))
```



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مشاكل GitHub

- `install.packages('usethis')`
- `usethis::use_git_config(user.name = "BatoolMM", user.email = "jane@example.org")`
- `usethis::create_github_token()`

Copy the token and add it after the following step:

- `credentials::gitcreds_set()`



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What we will learn this week?

- Going deeper with R Markdown
- Publishing R Markdown
- Creating a blog with R Markdown
- SQL and R
- Joining datasets
- Saving plots and data
- Encapsulating computational environment with `renv`
- Reshaping data with `pivot_longer` and `pivot_wider`
- Creating custom functions and loops
- `reprex` and filing issues in GH
- Datetimes and factors
- Modelling
- The difference between lists/dataframes/tibble



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مراجعة



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Blog Your Educational Journey!



Medium



Create Your Blog in R



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Learning curve	harder	easier
R dependencies	rmarkdown + blogdown	rmarkdown + distill
External dependencies	hugo; hugo theme	none
Supporting tools	hugo templating; CSS	CSS; pandoc
Style customization	limitless	colors & fonts via themer
Page layout	depends on hugo theme	limited



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R Weekly

نشرة اسبوعية في كل ما هو جديد في لغة الآر و بودكاست

دائما .. انشر مشاريعك أو مقالاتك الجديدة على المنصة!



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Encapsulating computational environment with `renv`

أزمة إعادة التكرار والإنتاج (Reproducibility Crisis)



nature
human behaviour

LETTERS

<https://doi.org/10.1038/s41562-018-0399-z>

Evaluating the replicability of social science experiments in *Nature* and *Science* between 2010 and 2015

Popular Latest

The Atlantic

Only through November 30: Try subscriber newsletters for free

SCIENCE

Psychology's Replication Crisis Is Running Out of Excuses

Another big project has found that only half of studies can be repeated. And this time, the usual explanations fall flat.

By Ed Yong

The \$28 Billion a Year Research Reproducibility Crisis

📅 October 19, 2015

The biggest crisis in the future of healthcare has nothing to do with the kind of issues that politicians talk about, such as payment systems and accessibility. Since cost-effective solutions to tragic and costly conditions like heart disease, dementia, diabetes, and cancer depend on bringing to market new treatments that rely upon genomics, nanotechnology, and molecular biology, the *biggest* problem is that at least half of the research money we invest in them is wasted. How can this be? What are the implications? What are the solutions? We'll show you.



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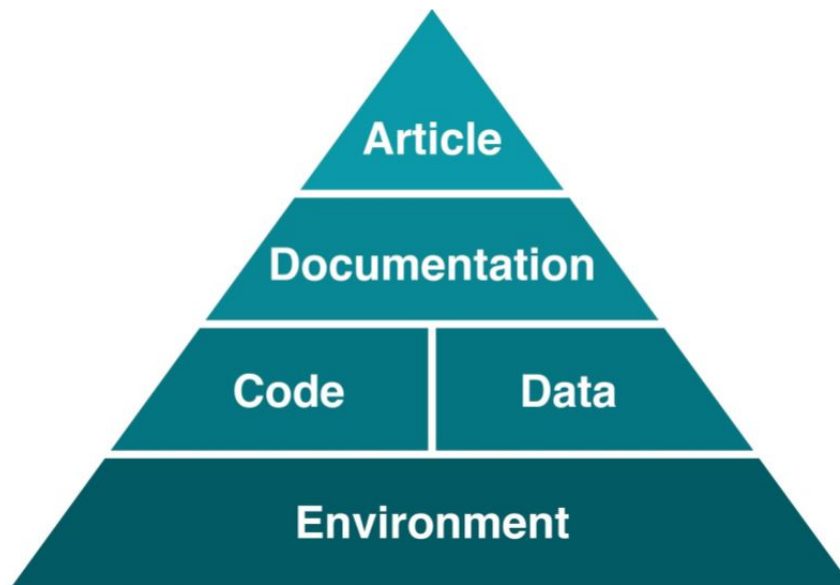
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أزمة إعادة التكرار والإنتاج (Reproducibility Crisis)



Credit: [coderefinery](#)



أزمة إعادة التكرار والإنتاج (Reproducibility Crisis)



Levels of Research Reproducibility



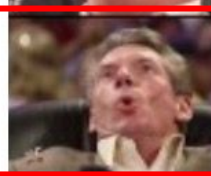
Trying things out in the R Console pane, saving tables and figures to named files.



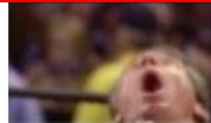
Writing code in an RScript or Rmarkdown file, generating saved tables, figures, and manuscripts that can be re-run if needed.



Using Projects and {here}, sharing code, documenting with README and comments, doing code review, and sharing code publicly on GitHub



All of the above, plus public sharing of code and data, and preserving your local package environment with {renv}

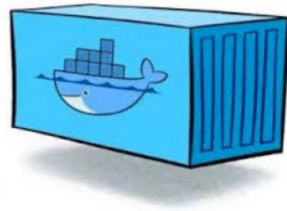


All of the above plus encapsulating the entire computing environment (R, packages, code) in a Docker image.



Docker + renv to the rescue!

Fixed dev environment



+



renv lockfile

Push changes

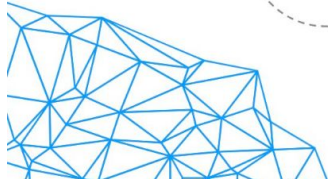


Docker Hub



GitHub

Dedicated to a project



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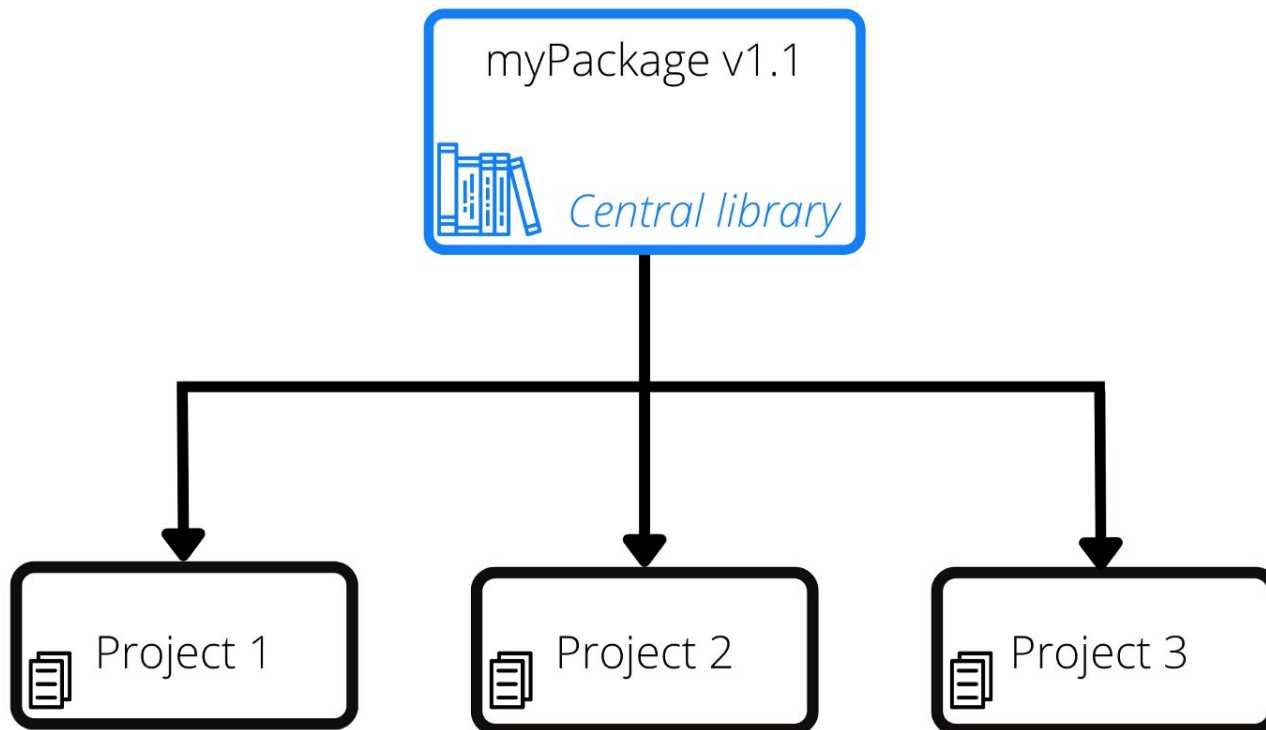
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install.packages()



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myPackage v1.1



Project library

Project 1



myPackage v1.3




Project library

Project 2




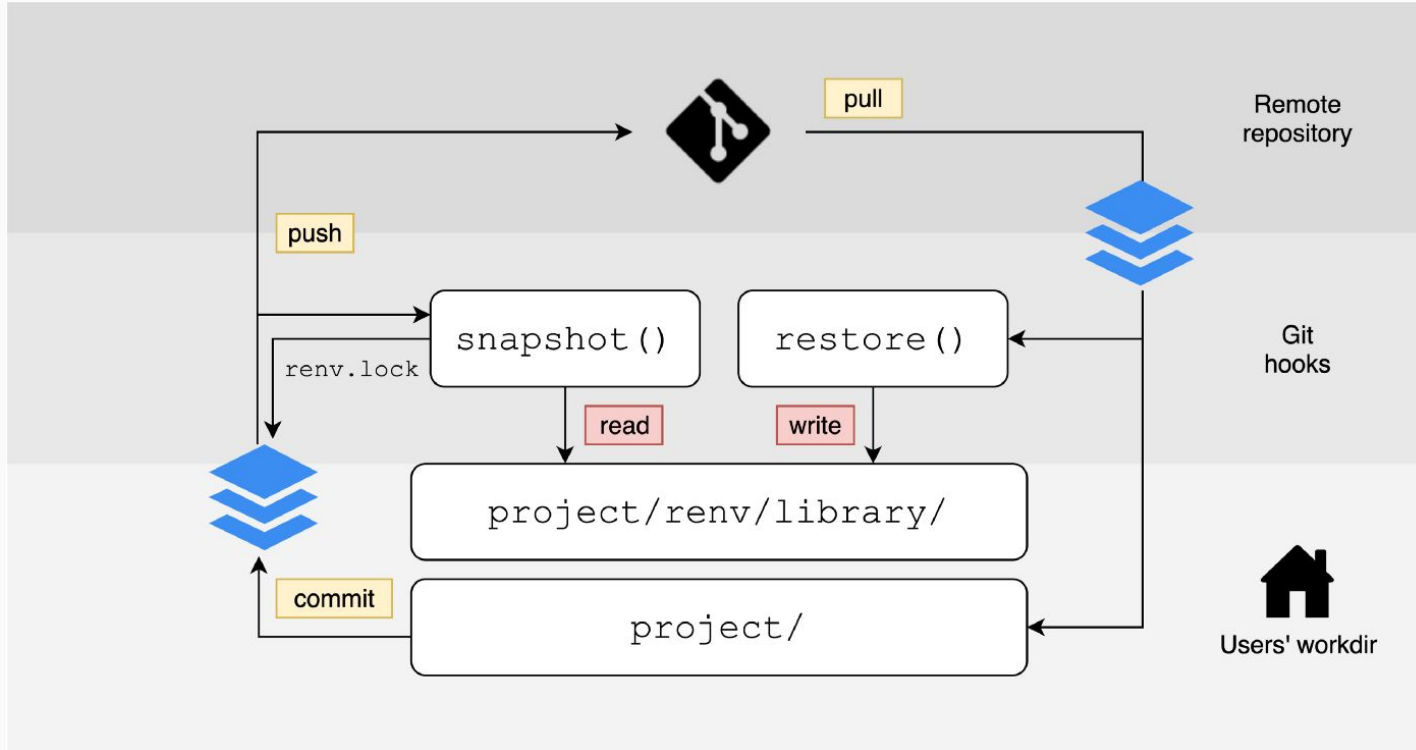
myPackage v0.9



Project library

Project 3







دمج البيانات من أكثر من مصدر

Left Table

Date	CountryID	Units
1/1/2020	1	40
1/2/2020	1	25
1/3/2020	3	30
1/4/2020	2	35

Right Table

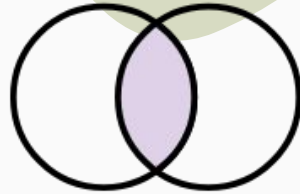
ID	Country
1	USA
2	Canada
3	Panama
4	Spain



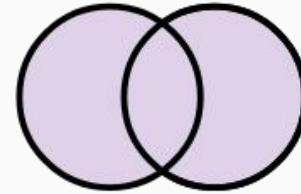
Merged Table

Date	CountryID	Units	Country
1/1/2020	1	40	USA
1/2/2020	1	25	USA
1/4/2020	2	35	Canada
1/3/2020	3	30	Panama
<i>null</i>	<i>null</i>	<i>null</i>	Spain

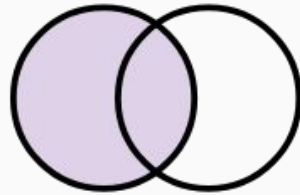




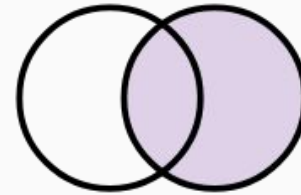
`inner_join(x, y)`



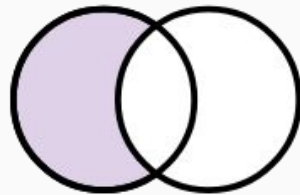
`full_join(x, y)`



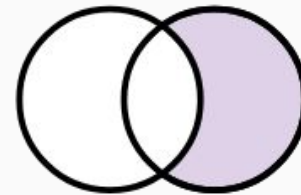
`left_join(x, y)`



`right_join(x, y)`



`anti_join(x, y)`



`anti_join(y, x)`





a	
x1	x2
A	1
B	2
C	3

+

b	
x1	x3
A	T
B	F
D	T

=

Mutating Joins

x1	x2	x3
A	1	T
B	2	F
C	3	NA

dplyr::left_join(a, b, by = "x1")
Join matching rows from b to a.

x1	x3	x2
A	T	1
B	F	2
D	T	NA

dplyr::right_join(a, b, by = "x1")
Join matching rows from a to b.

x1	x2	x3
A	1	T
B	2	F

dplyr::inner_join(a, b, by = "x1")
Join data. Retain only rows in both sets.

x1	x2	x3
A	1	T
B	2	F
C	3	NA
D	NA	T

dplyr::full_join(a, b, by = "x1")
Join data. Retain all values, all rows.

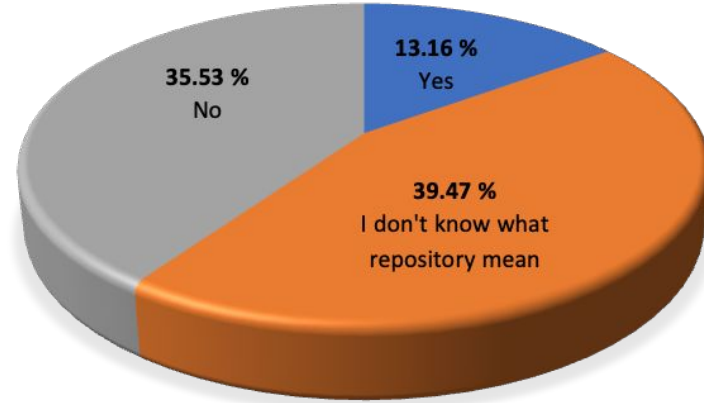


تطوير حُزم ومكتبات في لغة الآر

الوصول لبيانات محلية في العالم العربي كانت في الكثير من الأحيان تكتنفها بعض المصاعب



رسم توضيحي بواسطة
Ainsley Seago (CC-BY 4.0).



مسح أجراه مجتمع العلوم المفتوحة المملكة العربية السعودية
ل 80 فردًا من 2022-2-24 حتى 2022-4-11.



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مبادئ FAIR

قواعد وأساسيات FAIR

Findable (يُمكن إيجاده)



Accessible (يُمكن الوصول إليه)



Interoperable (يُمكن تشغيله)



Reusable (صالح للاستخدام)



The Turing Way project illustration by Scriberia. Used under a CC-BY 4.0 licence. DOI: [10.5281/zenodo.3332807](https://doi.org/10.5281/zenodo.3332807)



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Cite



Published datasets get a DOI that others can use to give researchers credit for their work.

License



Published datasets are licensed by Creative Commons to make it easier for the data to be re-used in the future.

Discover



The DOIs ensure that the published data files can always be found, even if URLs change over time.



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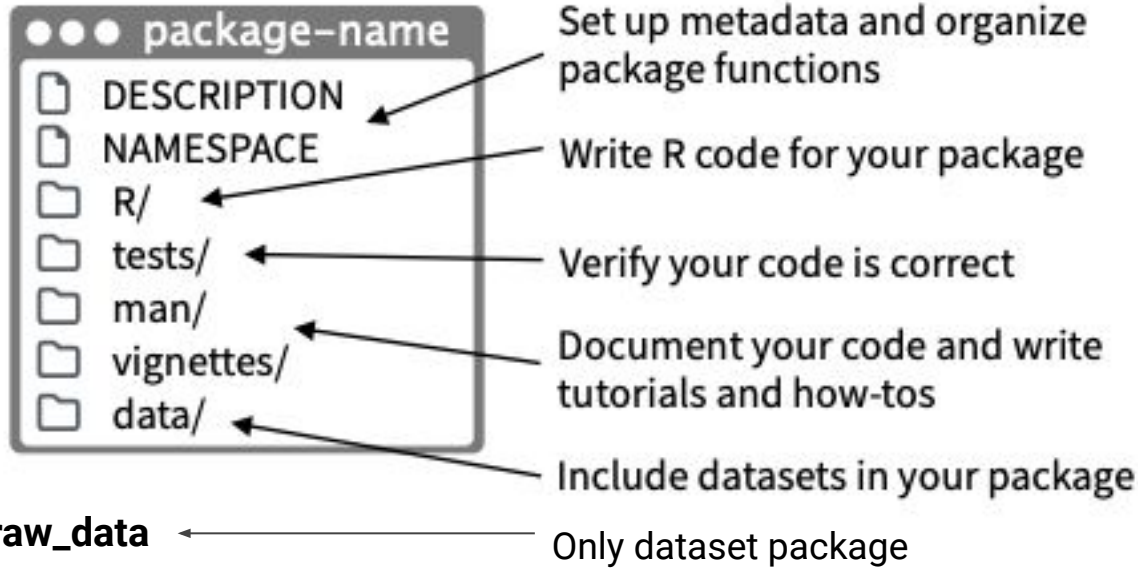
batool@liverpool.ac.uk



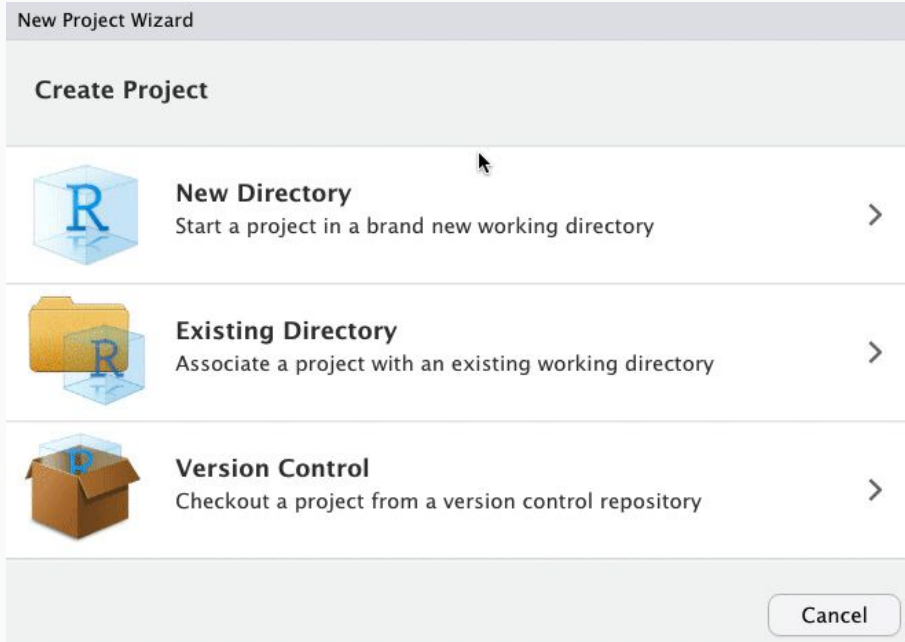
- `usethis::create_package()` : creates the file structure for a new package
- `usethis::use_r()` : creates R files
- `devtools::load_all()` : loads all functions in a package like when a package is installed and attached with `library()`
- `usethis::use_package()` : adds a package dependency to the `DESCRIPTION` file
- `usethis::use_data()` : saves an object in the R session as a dataset in the package
- `devtools::document()` : creates documentation files in `man/` and the `NAMESPACE` file from roxygen2 code (it is a wrapper of `roxygen2::roxygenize()`)
- `usethis::use_vignette()` : creates a new vignette in `vignettes/`
- `devtools::check()` : builds and checks a package for any ERRORS, WARNINGS, or NOTES
- `devtools::install()` : uses `R CMD INSTALL` to install a package



ملفات اساسية في أي حزمة أو مكتبة



الخطوة الأولى



أو

```
usethis::create_package()
```



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الخطوة الثانية

نقل الريبوزتري إلى جيت هوب

```
usethis::use_git()
```

```
usethis::use_github()
```



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الخطوة الثانية

BatoolMM / ArabDatasets Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

BatoolMM Add GitHub links to DESCRIPTION ad6cd64 18 hours ago 3 commits

R	add files for R proj	18 hours ago
man	add files for R proj	18 hours ago
.Rbuildignore	add files for R proj	18 hours ago
.gitignore	Initial commit	18 hours ago
ArabDatasets.Rproj	add files for R proj	18 hours ago
DESCRIPTION	Add GitHub links to DESCRIPTION	18 hours ago
NAMESPACE	add files for R proj	18 hours ago

Help people interested in this repository understand your project by adding a README. Add a README



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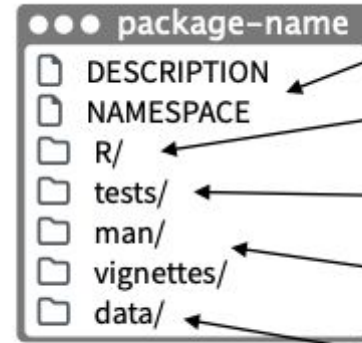
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الخطوة الثالثة



Credits: [Rstudio4edu](#) by [Desirée De Leon](#) and [Alison Hil](#)



- Set up metadata and organize package functions
- Write R code for your package
- Verify your code is correct
- Document your code and write tutorials and how-tos
- Include datasets in your package



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الخطوة الثالثة

```
usethis::use_data_raw()
```

هذه الخطوة ستنج لنا ملف جديد اسمه `raw_data` وسيحوي على `DATASET.R`

نقل بياناتنا الجديدة إلى `raw data`



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الخطوة الثالثة



Credits: [Rstudio4edu](#) by [Desirée De Leon](#) and [Alison Hil](#)

- أختيار البيانات المناسبة وحفظها في data-raw
- البيانات المستخدمة في هذا المثال تم اقتباسها من بوابة قطر للبيانات المفتوحة.



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الخطوة الثالثة

في DATASET.R نجهز البيانات وننظفها:

```
## code to prepare `DATASET` dataset goes here
```

```
library(tidyverse)  
library(here)  
library(janitor)
```

```
schoolData <- read_delim(here("data-raw","qatar-school-results.csv"),  
                        delim = ";") %>%  
  clean_names() %>%  
  select(year, pass_fail, level, grade, gender)
```

```
usethis::use_data(schoolData, overwrite = TRUE)
```



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الخطوة الرابعة



```
usethis::use_data(schoolData, overwrite = TRUE)
```

نتائج البيانات `rda` ستُنظف في ملف جديد اسمه `data`

Credits: [Rstudio4edu](#) by [Desirée De Leon](#) and [Alison Hil](#)



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الخطوة الخامسة



نفحص سير الأمور بتحميل الحزمة **محليا**

```
devtools::load_all()
```

```
devtools::check(document=FALSE)
```



الخطوة السادسة

إضافة المستندات والشرح للبيانات ضمن الحزمة أو المكتبة

```
usethis::use_r("schoolData")
```

هذه الخطوة ستولد لدينا script جديد في R file



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الخطوة السادسة

إضافة المستندات والشرح للبيانات ضمن الحزمة أو المكتبة

```
#' Data for Student Levels in Qatar
#
# This dataset contains total of pass and failed students, by level, grade and gender.
#
# @format A tibble with 120 rows and 8 variables:
# \describe{
#   \item{Year}{chr that specify the year which academic year}
#   \item{pass_fail}{chr that describe the overall grade if pass or fail}
#   \item{level}{chr which describe the levels: Preparatory, Primary, Secondary, Sec-Specialzation}
#   \item{grade}{chr grade 1-6}
#   \item{gender}{chr female or male}
# }
# @source \url{https://www.data.gov.qa/explore/dataset/school-results/table/}
"SchoolData"
```



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الخطوة السادسة

إضافة المستندات والشرح للبيانات ضمن الحزمة أو المكتبة

```
devtools::document()
```

```
usethis::use_package_doc()
```

```
?schoolData
```

```
devtools::check()
```



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الخطوة السابعة - اختيارية

لكي نُحول البيانات ل `tibble` .. عندما يكون `cursor` في داخل `R Script`

```
usethis::use_tibble()
```

الفرق بين `tibble` and `dataframe`



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الخطوة السابعة - اختيارية

لكي نُحول البيانات ل tibble .. عندما يكون cursor في داخل R Script

```
#' @keywords internal  
"_PACKAGE"
```

```
## usethis namespace: start  
#' @importFrom tibble tibble  
## usethis namespace: end  
NULL
```



الخطوة الثامنة - خطوة اختيارية

تكوين موقع مُستقل للمستندات والمساعدات والتوثيقات

```
devtools::build_site()  
pkgdown::build_site_github_pages()
```



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الخطوة الأخيرة

إكمال خطوات تحميل الباكيج

```
devtools::install()
```

```
# install.packages("remotes")  
remotes::install_github("username/package")
```



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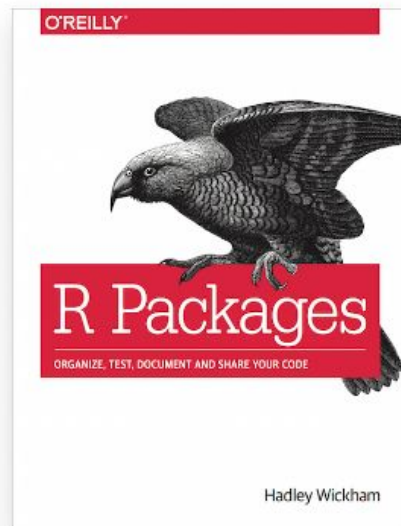


R Packages (2e)

Welcome!

Welcome to R packages by [Hadley Wickham](#) and [Jenny Bryan](#). Packages are the fundamental units of reproducible R code. They include reusable R functions, the documentation that describes how to use them, and sample data. In this book you'll learn how to turn your code into packages that others can easily download and use. Writing a package can seem overwhelming at first. So start with the basics and improve it over time. It doesn't matter if your first version isn't perfect as long as the next version is better.

This is the work-in-progress 2nd edition of the book.



أقرأه مجاني



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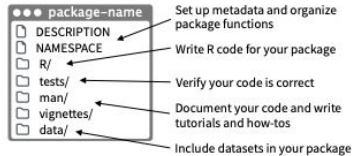


Package Development : : CHEAT SHEET



Package Structure

A package is a convention for organizing files into directories. This cheat sheet shows how to work with the 7 most common parts of an R package:



There are multiple packages useful to package development, including **usethis** which handily automates many of the more repetitive tasks. Load and install **devtools** which wraps together several of these packages to access everything in one step.

Getting Started

Once per machine:

- Get set up with **use_r_profile()**

```
if (interactive()) {
  require("devtools", quietly = TRUE)
  # automatically attaches usethis
}
```

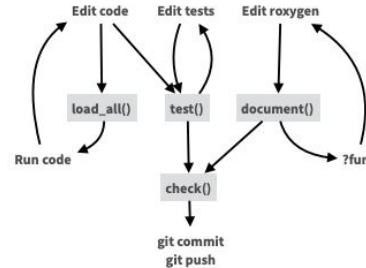
- **create_github_token()** — Set up GitHub credentials
- **git_vaccinate()** — Ignores common special files

Once per package:

- **use_git()** — Activate git
- **use_github()** — Connect to GitHub
- **use_github_actions()** — Set up automated checks

Having problems with git? Get a situation report with **git_sitrep()**.

Workflow



- **load_all()** (Ctrl/Cmd + Shift + L) — Load code
- **document()** (Ctrl/Cmd + Shift + D) — Rebuild docs and NAMESPACE
- **test()** (Ctrl/Cmd + Shift + T) — Run tests
- **check()** (Ctrl/Cmd + Shift + E) — Check complete package

R/

All of the R code in your package goes in `R/`. A package with just an `R/` directory is still a very useful package.

- Create a new package project with **create_package("path/to/name")**.
- Create R files with **use_rt("file-name")**.

- Follow the tidyverse style guide at **style.tidyverse.org**
- Click on a function and press **F2** to open its definition
- Find a function or file with **Ctrl + .**

DESCRIPTION

The `DESCRIPTION` file describes your work, sets up how your package will work with other packages, and applies a license.

- Pick a license with **use_mit_license()**, **use_gpl3_license()**, **use_proprietary_license()**.
- Add packages that you need with **use_package()**.

Import packages users of your packages need. R will install them when it installs your package.

Suggest packages that developers of your package need. Users can install or not, as they like.

NAMESPACE

The `NAMESPACE` file helps you make your package self-contained: it won't interfere with other packages, and other packages won't interfere with it.

- Export functions for users by placing **@export** in their roxygen comments.
- Access objects from other packages with **package::object** or **@importFrom package object** (recommended) or **@import package** (use with caution).
- Call **document()** to generate `NAMESPACE` and **load_all()** to reload.

DESCRIPTION	NAMESPACE
Makes packages available	Makes function available
Mandatory	Optional (can use <code>::</code> instead)
use_package()	use_import_from()



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The screenshot shows the RStudio interface with the following components:

- Editor:** A file named 'DESCRIPTION' is open, containing the following code:


```

15 #' \item{pubmed_id}{PubMed ID}
16 #' \item{license}{License}
17 #' \item{abstract}{Abstract}
18 #' \item{publish_time}{}
19 source_xSource
20 titleTitle
21 doiDigital Object Identifier
22 pmcidpmcid
23 pubmed_idpubmed_id
24 licenselicense
25 abstractPaper Abstract
26 publish_timePublish Time
27 authorsAuthors
18:25 (Top Level)
      
```
- Console:** Shows the execution of R code to create the package:


```

~/Repositories/rpackages/cord19/
3 0015023cc06b5362d332b3b... 3 120 To introduce mutations into the PK region, the pRep-ptGFP ... <NULL>
4 0015023cc06b5362d332b3b... 4 120 132 133 author/funder. All rights reserved. No reuse allow... <NULL>
5 0015023cc06b5362d332b3b... 5 120 The copyright holder for this preprint (which was not peer... <NULL>
6 0015023cc06b5362d332b3b... 6 135 Mutations were then introduced into the replicon plasmid a... <NULL>
7 0015023cc06b5362d332b3b... 7 136 To assess the effects of truncation of the poly-C-tract on... <list [1...
8 0015023cc06b5362d332b3b... 8 144 Transcription reactions to produce large amounts of RNA fo... <list [1...
9 0015023cc06b5362d332b3b... 9 144 The copyright holder for this preprint (which was not peer... <NULL>
10 0015023cc06b5362d332b3b... 10 144 The copyright holder for this preprint (which was not peer... <NULL>
# ... with 412,258 more rows
> # Could use unnest_wider, but hoist seems to be faster
> paragraph_citations <- paragraphs %>%
+   select(paper_id, paragraph, citations) %>%
+   unnest(citations) %>%
+   hoist(citations, start = "start", end = "end", text = "text", ref_id = "ref_id")
      
```
- Environment:** Shows the 'Global Environ' and 'Data' sections.
- Files:** Shows the file structure of the 'cord19' package, including files like '.gitig...', '.Rbuil...', 'cord19...', 'data...', 'DESC...', 'LICEN...', 'man', 'NAM...', and 'R'.

Video and Vignette



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المصادر المستخدمة

- Building R package by Paula Morega
- Package Building by Tom Mock
- Rstudio4edu by *Desirée De Leon* and *Alison Hill*



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كيف نواصل من هنا؟

النصيحة الأولى: جيت هوب وستاك أوفر فلو هما صديقك

rstudio / rstudio Public

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Code Issues 1.3k Pull requests 16 Actions Projects 4 Wiki Security Insights

Want to contribute to rstudio/rstudio? Dismiss -

If you have a bug or an idea, read the [contributing guidelines](#) before opening an issue. If you're ready to tackle some open issues, [we've collected some good first issues](#) for you.

Filters is:issue is:open Labels 103 Milestones 10 New issue

1,253 Open 5,613 Closed Author Label Projects Milestones Assignee Sort

- Update Electron to 20.0.x [electron](#) [enhancement](#)
#11734 opened 15 hours ago by timtmok
- windows - open project in new session issue (electron) [bug](#) [electron](#) [windows](#)
#11730 opened 19 hours ago by jgutman [Elsbeth Geranium](#)
- (R 4.2) force UTF-8 output from Python when querying paths [bug](#) [python](#)
#11725 opened yesterday by kevinushey [Elsbeth Geranium](#)
- (R 4.2) path.expand("~") resolves incorrectly for non-ASCII usernames on Windows [bug](#) [locale](#)
#11721 opened 2 days ago by kevinushey [Elsbeth Geranium](#)



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النصيحة الأولى: جيت هوب وستاك اوفر فلو هما صديقك



عند طرح أي سؤال استخدم `reprex` package و `sessionInfo()`

Can't "Open in browser" after rendering Rmarkdown document #11

[Open](#) 4 tasks done ntluong95 opened this issue 4 days ago · 1 comment

ntluong95 commented 4 days ago

System details

```
RStudio Edition : Desktop
RStudio Version : RStudio 2022.11.0-daily+82 "Elsbeth Geranium" Daily
OS Version      : Windows 11
R Version       : 4.2.1
```

Steps to reproduce the problem

Write a Rmarkdown file and render it

Describe the problem in detail

After rendering, a window pop-up that allow us to "Open in browser". However, this function is not working with this build of Rstudio. For previous build, I use and it is fine

Describe the behavior you expected

After rendering Rmarkdown, the document can open in browser

- I have read the guide for [submitting good bug reports](#).
- I have installed the latest version of RStudio, and confirmed that the issue still persists.
- If I am reporting an RStudio crash, I have included a [diagnostic report](#).
- I have done my best to include a minimal, self-contained set of instructions for consistently reproducing the issue.



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النصيحة الثانية: سجل في جدول الإرور وكيف حليتها؟



Emily Nordmann
@emilynordmann

If you're learning #rstats as a beginner, I recommend keeping an error log when you first start - it will slow you down in the short-term but it should help you to learn and fix recurring errors (and why they're happening).

No alt Error log



Error	Code that produced the error	Plain language explanation of problem	Code that fixed the error
Error in read_csv("my_file.csv") : could not find function "read_csv"	<code>dat <- read_csv("my_file.csv")</code>	The function <code>read_csv</code> is in the tidyverse package <code>readr</code> and I had not loaded the tidyverse before trying to run <code>read_csv</code>	<code>library(tidyverse)</code> <code>dat <- read_csv("my_file.csv")</code>
Error: 'my_file' does not exist in current working directory	<code>dat <- read_csv("my_file.csv")</code>	I forgot to add on the <code>.csv</code> file extension to the name of the file.	<code>dat <- read_csv("my_file.csv")</code>
Error: 'my_file' does not exist in current working directory	<code>dat <- read_csv("My_file.csv")</code>	The file I was trying to load is named "my_file" not "My_file" - R is case sensitive.	<code>dat <- read_csv("my_file.csv")</code>

This will slow you down in the short-term, but it will help you to learn and fix recurring errors

Error log



Error	Code that produced the error	Plain language explanation of problem	Code that fixed the error
Error in read_csv("my_file.csv") : could not find function "read_csv"	<code>dat <- read_csv("my_file.csv")</code>	The function <code>read_csv</code> is in the tidyverse package <code>readr</code> and I had not loaded the tidyverse before trying to run <code>read_csv</code>	<code>library(tidyverse)</code> <code>dat <- read_csv("my_file.csv")</code>
Error: 'my_file' does not exist in current working directory	<code>dat <- read_csv("my_file.csv")</code>	I forgot to add on the <code>.csv</code> file extension to the name of the file.	<code>dat <- read_csv("my_file.csv")</code>
Error: 'my_file' does not exist in current working directory	<code>dat <- read_csv("My_file.csv")</code>	The file I was trying to load is named "my_file" not "My_file" - R is case sensitive.	<code>dat <- read_csv("my_file.csv")</code>

This will slow you down in the short-term, but it will help you to learn and fix recurring errors



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النصيحة الثالثة: إقرأ النشرة الأسبوعية والبودكاست



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R Weekly 2022-W32

08 Aug 2022 [f](#) [t](#) [@](#)

- [How to have \(my\) content shared by R Weekly? \(github.com\)](#)

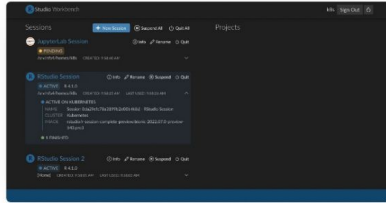
This week's release was curated by [Batool Almarzouq](#), with help from the R Weekly team members and contributors. ([github.com](#))

Highlight

- [useR2022 recordings are now on the conference YouTube channel \(youtube.com\)](#)
- [Theming diffify for accessibility: Part 2 \(jumpingrivers.com\)](#)
- [RStudio:Conf 2022 Recap \(youtube.com\)](#)

Insights

- [Theming diffify for accessibility: Part 2 \(jumpingrivers.com\)](#)
- [Workbench Session Information improvements \(rstudio.com\)](#)



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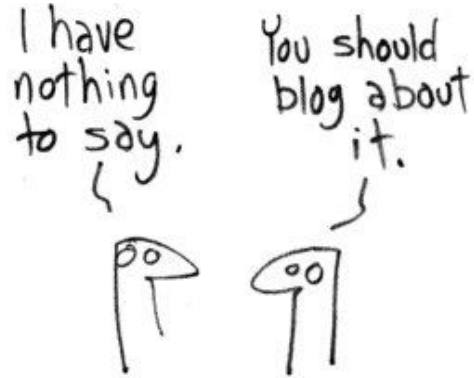


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النصيحة الرابعة: لاتخجل من نشر رحلتك التعليمية في مدونة

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"I started a blog for people who are interested in my excess navel lint problem."



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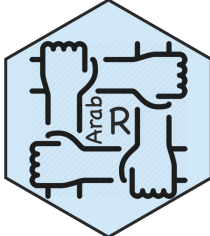
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النصيحة الخامسة: شارك في جماعات الممارسة



THE
CARPENTRIES



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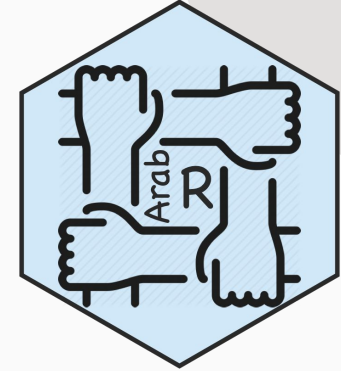
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تتمثل **رؤية ArabR** في بناء قدرات مستدامة لمستخدمي R في الوطن العربي **ودعم مستخدمي R** من خلال التواصل **وزيادة ظهورهم** على المستوى الدولي والدفع لإنشاء المزيد من مجموعات useR / R-Ladies في الوطن العربي.



Hussain
Alsalman



Amal Tlili



Iman Al-Hasani



Fahad
Almsned



Haifa Ben
Messaoud



Kamila
BENADROUCHE



Mohammed
El Fodil



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جماعات الممارسة

R-Ladies Community | Meetup.com

216

Chapters



100267

Members



61

Countries

R-Ladies Chapters Worldwide



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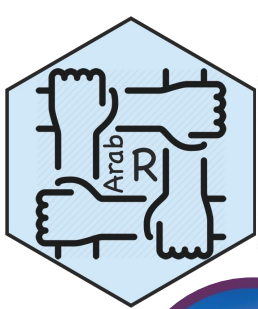
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R community in MENA



A huge R community who meet up regularly to provide resources and teach newcomers to get started with R

More than 400 chapters around the world. [Here is more details!](#)



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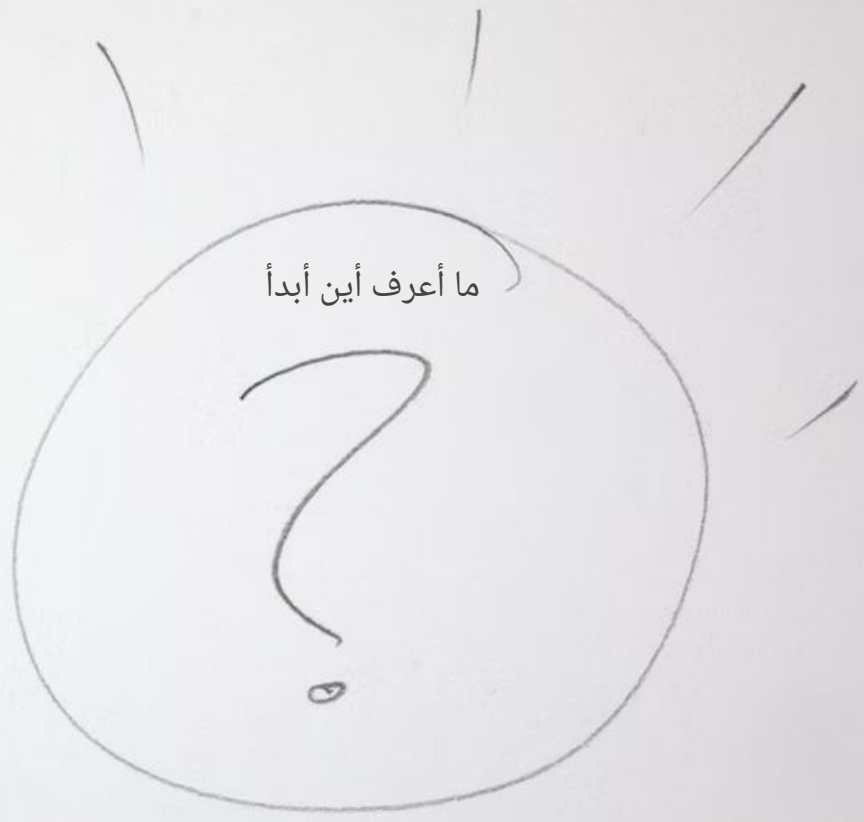


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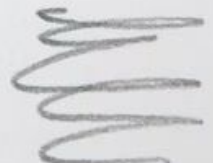


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ما أعرف أين أبدأ



رؤية VISION 2030

المملكة العربية السعودية
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مجتمع العلوم المفتوحة في المملكة العربية السعودية تم إنشاؤه تماشياً مع رؤية المملكة العربية السعودية لعام 2030، والتي تركز على تثبيت القيم و تعزيز المعرفة وتحسين تكافؤ فرص الحصول على التعليم



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مجتمع العلوم المفتوحة في السعودية هو جزء من الشبكة العالمية لمجتمعات العلوم المفتوحة



The International Network of Open Science Communities (INOSC)



Overview of the current Open Science Communities. As of May 2021, the International Network of Open Science Communities (INOSC) comprises Open Science Communities at 11 locations in the Netherlands, 1 in Ireland, 1 in Sweden, and 1 in Saudi Arabia. Image by [Anita Eerland](#), licensed under [CC BY-ND 3.0](#).



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- تقديم استشارات مجانية في لغة الآر
- تسجيل في مجتمع العلوم المفتوحة



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العضوية في OSCSA



- تعرف على ممارسات العلوم المفتوحة من خلال ورش العمل لدينا.
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- دعم الطلاب والباحثين في نشر وإبراز أعمالهم محليا وعالميا
- رشح نفسك في التصويت في

International Network Open Science & Scholarship (INOSC) Board



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NHS-R
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NHS-R Conference 2021

Monday 8th November to Wednesday 10th November



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Ph.D. in Biochemistry. Experience in cancer bioinformatics, RNA-Seq, network biology, pathway enrichment, and integrated -omics analyses, Docker, HPC (She/her).

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Achievements



EXON Public
R package for generating beautiful and customizable plots for the exons and introns of any gene
R ☆ 10

deepSulfation Public
It uses deep learning to predict sulfation sites from protein sequence.
Jupyter Notebook ☆ 4

PlantAI Public
This is a simple application which use a convolutional neural network (CNN) to characterise the plants in my home and help in taking care of them.
Jupyter Notebook ☆ 4

An-Open-Science-Approach-to-Machine-Learning Public
"An Open Science Approach to Machine Learning in Medical and Biological Research talk" in Saudi Data community
JavaScript

Collaborating-on-Open-Data-Science-Projects Public
This is the materials for a workshop titled "Collaborating in Open Data Science Projects", part of WiDS2021.
HTML 🗨️ 1

EV11 Public
Study the phosphorylation of EV11 through MD
Python ☆ 2

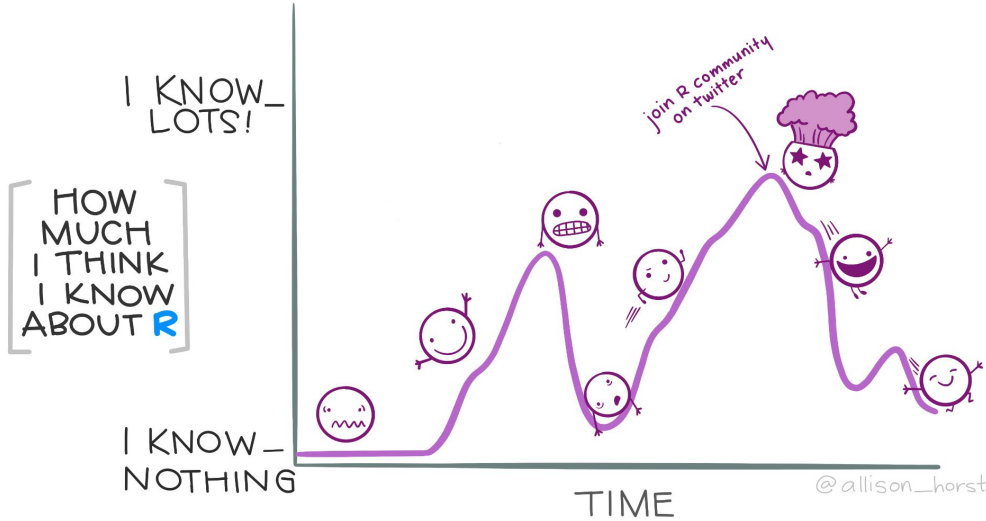
22,029 contributions in the last year

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Mon	■	■	■	■	■	■	■	■	■	■	■	■
Wed	■	■	■	■	■	■	■	■	■	■	■	■
Fri	■	■	■	■	■	■	■	■	■	■	■	■

Learn how we count contributions Less More

NEW! View your contributions in 3D, VR and IRL!

أين أنا!!!

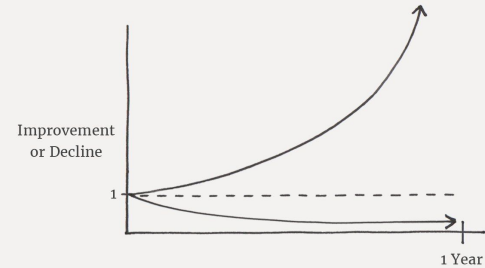


Credit: Allison Horst

The Power of Tiny Gains

1% better every day $1.01^{365} = 37.78$

1% worse every day $0.99^{365} = 0.03$



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الواجب

تحضير لعرض المشاريع



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Feedback



- ما هو **أفضل** شيء تعلمته اليوم؟
- ما هو **أصعب** مفهوم تعرضت له في هذه الجلسة؟
- ما هو الشيء الذي تحب ان **يتحسن** في الجلسات القادمة؟

