

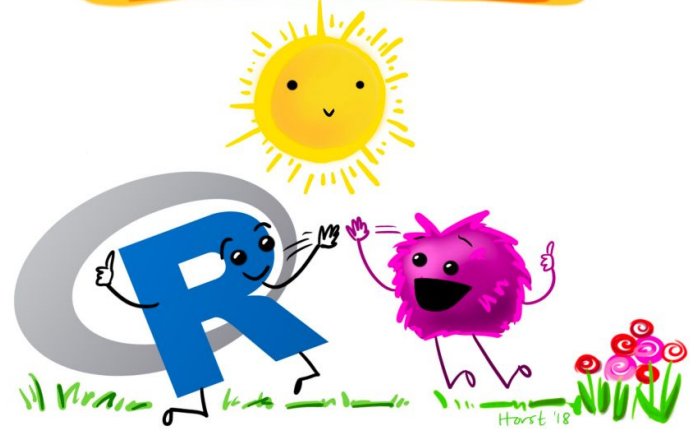
لغة الآر من الصفر إلى الإحتراف

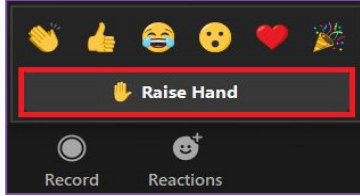
at first I was like...



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 الأَر (R) من الصفر إلي الإحتراف"

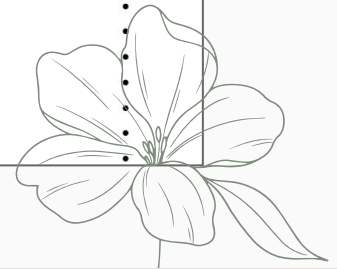
المدرية: د بتول المرزوق
الأسبوع: الأول
التاريخ: ٢٢ يونيو ٢٠٢٢

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)



@OpenSciSaudi, @batool664



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هل يبدو هذا مألوفا ...



"FINAL".doc



FINAL.doc!



FINAL_rev.2.doc



FINAL_rev.6.COMMENTS.doc



FINAL_rev.8.comments5.
CORRECTIONS.doc



FINAL_rev.18.comments7.
corrections9.MORE.30.doc

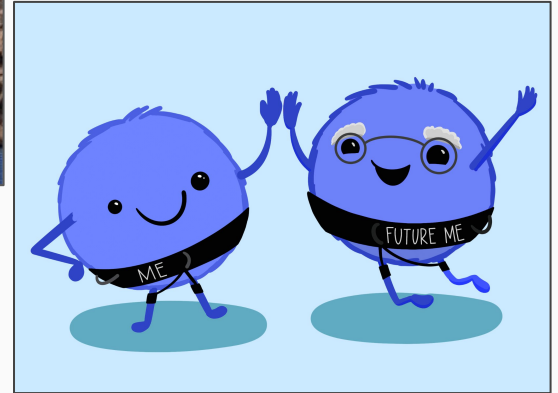


FINAL_rev.22.comments49.
corrections.10.#@\$%WHYDID
ICOMETOGRADSCHOOL???.doc



JORGE CHAM © 2012

WWW.PHDCOMICS.COM



Credit: Allison Horst



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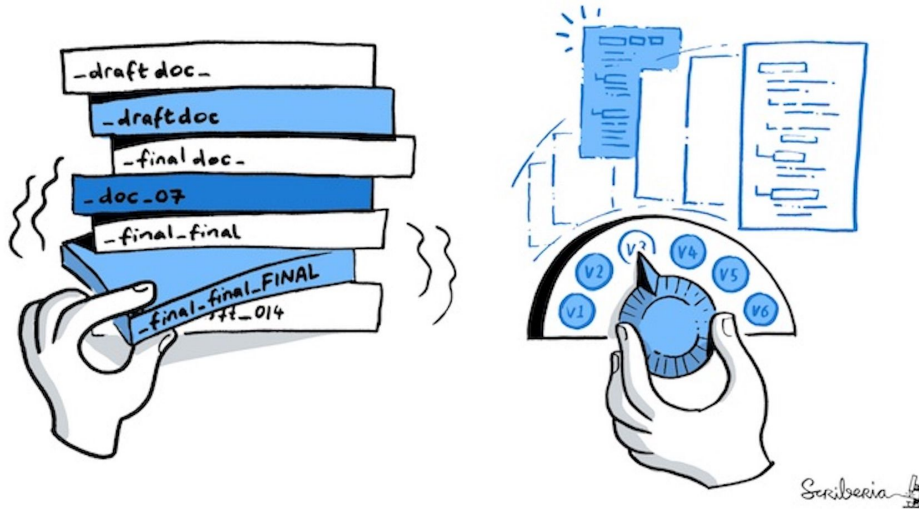
www.osc-ksa.com



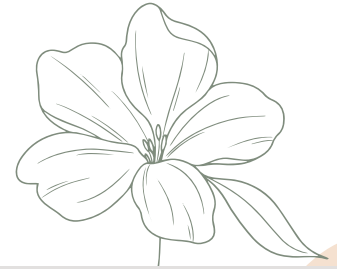
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TRACK PROJECT HISTORY



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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```
git push
~/Desktop/test (master ✓) > git push
```

Git هي أحد أكثر أنظمة (version control) استخدامًا في العالم وهي أداة مجانية و مفتوحة المصدر

GitHub من ناحية أخرى، يعد موقعًا وأداة لاستضافة ومشاركة مستودعات Git عن بُعد



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| main | | 1 branch | 0 tags | Go to file | Add file | Code |
|----------------------------------|--------------------------------------|----------|---------------|------------|----------|---------------|
| BatoolMM | add CoC | 2cea29 | on 4 Apr 2021 | 22 commits | | |
| bin | Create bin | | | | | 16 months ago |
| docs | Create docs | | | | | 16 months ago |
| imgs | add logo | | | | | 16 months ago |
| .gitignore | Initial commit | | | | | 16 months ago |
| CITATION.md | add CITATION | | | | | 16 months ago |
| CODE_OF_CONDUCT.md | add CoC | | | | | 15 months ago |
| CONTRIBUTING.md | Create CONTRIBUTING.md | | | | | 16 months ago |
| LICENSE | add the complete text of the LICENSE | | | | | 16 months ago |
| Open Science Community SA-01.png | add logo | | | | | 16 months ago |
| README.md | Update README.md | | | | | 15 months ago |

Git هي أحد أكثر أنظمة (version control) استخدامًا في العالم وهي أداة مجانية و مفتوحة المصدر

GitHub من ناحية أخرى، يعد **موقعًا** وأداة لاستضافة ومشاركة مستودعات Git عن بُعد



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كيفية تكوين Repo

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *

BatoolMM ▾

Repository name *

/

Great repository names are short and memorable. Need inspiration? How about [ideal-garbanzo?](#)

Description (optional)

Public

Anyone on the internet can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file

This is where you can write a long description for your project. [Learn more.](#)



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مبروك أنت الآن مُتمكِن من جيت هوب

You created your first repo.



Kurtis Pykes
kurtispykes

Follow

195 followers · 8 following

Croydon, London

Achievements



kurtispykes / README.md

Hi, I'm Kurtis Pykes

I'm a self-taught machine learning engineer working as a freelancer. I have a keen interest in designing, building, and deploying machine learning applications, as well as writing. Outside of work, I enjoy...

- Playing football and watching Chelsea FC (The best club in the world.)
- Calisthenics - my preferred style of exercise
- Reading.

Writing

- Building Reproducible Machine Learning Pipelines - 17th June 2021
- Fighting Overfitting with L1 or L2 Regularization-Which one is Better? - 19th July 2021
- Best Practices for Data Science Project Workflows and File Organization - 20th July 2021
- How to Design a Machine Learning System - 5th Sept 2021

Connect with Me

- Twitter
- LinkedIn
- Medium
- Instagram



Leena S. AlMehlis
LAlmehlisy

Unfollow

Bsc in Medical Microbiology | Infectious Diseases | Bioinformatics | science communication | Research lab Tec | immunology | Bacteriology | Antibiotics.

1 follower · 14 following

KAIMRC
Riyadh - Saudi Arabia
@LAlmehlisy

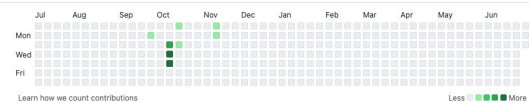
LAlmehlisy / README.md

- Hi, I'm Leena AlMehlisy @LAlmehlisy
- I'm interested in medical microbiology, medical Research, DNA&RNA extraction and isolation, Bioinformatics, immunology, Bacteriology, Antibiotics Resistance.
- I'm currently learning bioinformatics, Open Life sciences
- How to reach me : Twitter: @LAlmehlisy / Email: Leena.AL-mehlisy@windowslive.com.

Pinned

LAlmehlisy Public
Config files for my GitHub profile.

28 contributions in the last year



GitHub Portfolio

Kurtis Profile

Overview Repositories 81 Projects Packages Stars 132

robbyrussell1 / README.md

Robby Russell
robbyrussell

Unfollow Sponsor

CEO/Partner @planetargon. Old-timer Ruby on Rails developer. Creator of @ohmyzsh. Host of Maintainable Software Podcast he/him/his

4.1k followers · 51 following

Planet Argon, LLC
Portland, Oregon
https://www.planetargon.com/about/prob...
@robbyrussell

Sponsors

Robby (on Rails) Russell

Bonjour! My name is Robby (he/him), I'm the CEO of Planet Argon, a company that guides organizations with existing Ruby on Rails applications to help make them better and more maintainable.

Here are a few random details about me:

Leena's Profile

Robby's Profile



@OpenSciSaudi, @batool664



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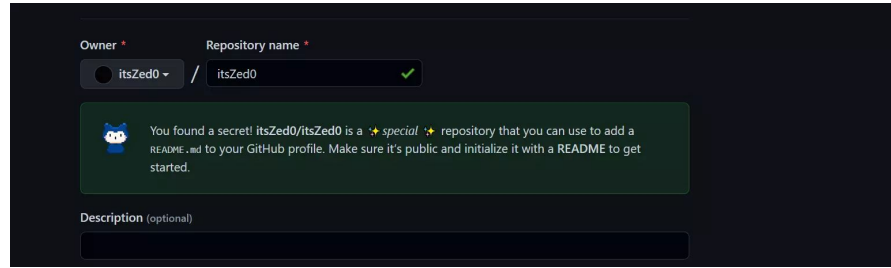


batool@liverpool.ac.uk

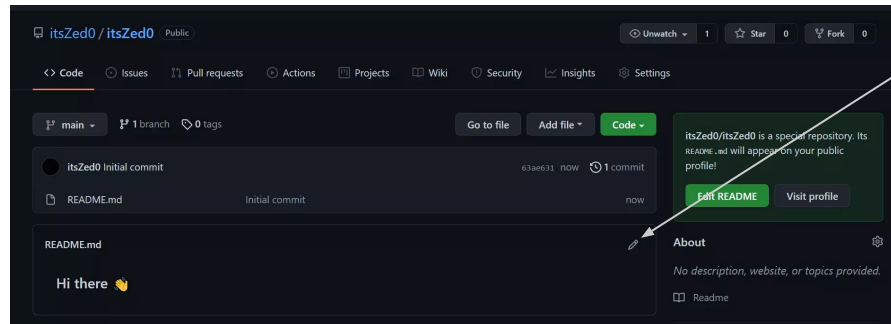


دورك الآن (في مجموعات)

- كون Repo جديد وسميه باسم username الشخصي
 - مثلا إذا username هو itsZedo نسمي الريبو هو ايضا itsZedo



- في README تغيير المعلومات

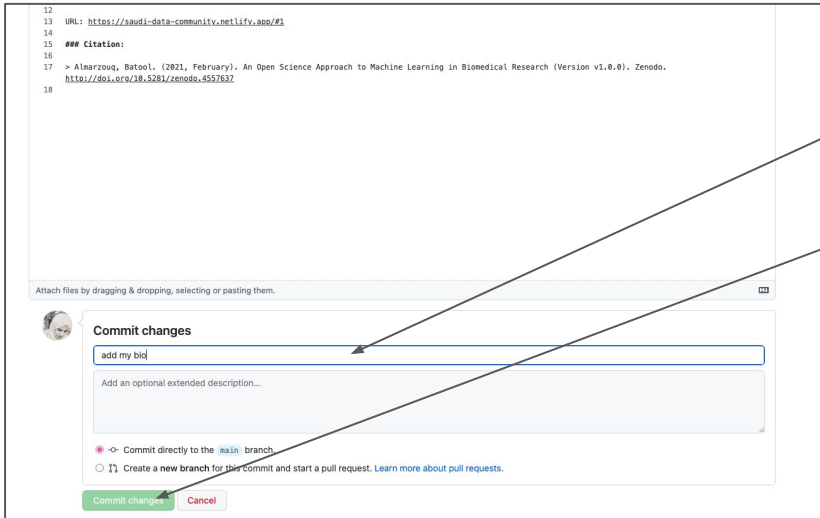


دورك الآن (في مجموعات)

- في README نكتب

- 🙌 Hi, I'm
- 👁️ I'm interested in

- في README نكتب التغيير في
- نضغط على الزر الأخضر





كيف نغير في الفورمات للخطوط داخل GitHub



@OpenSciSaudi, @batool664



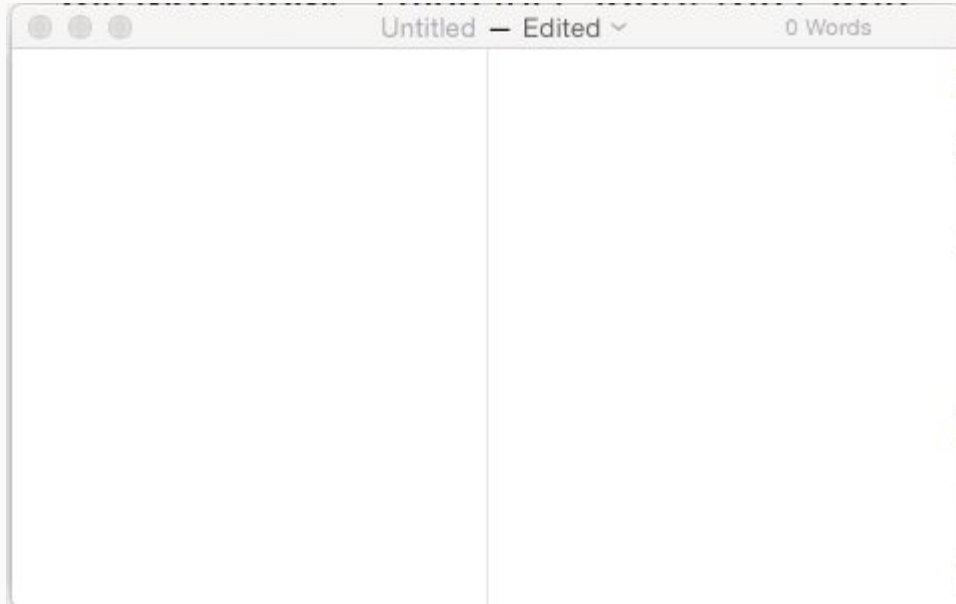
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Markdown (.md)



@OpenSciSaudi, @batool664



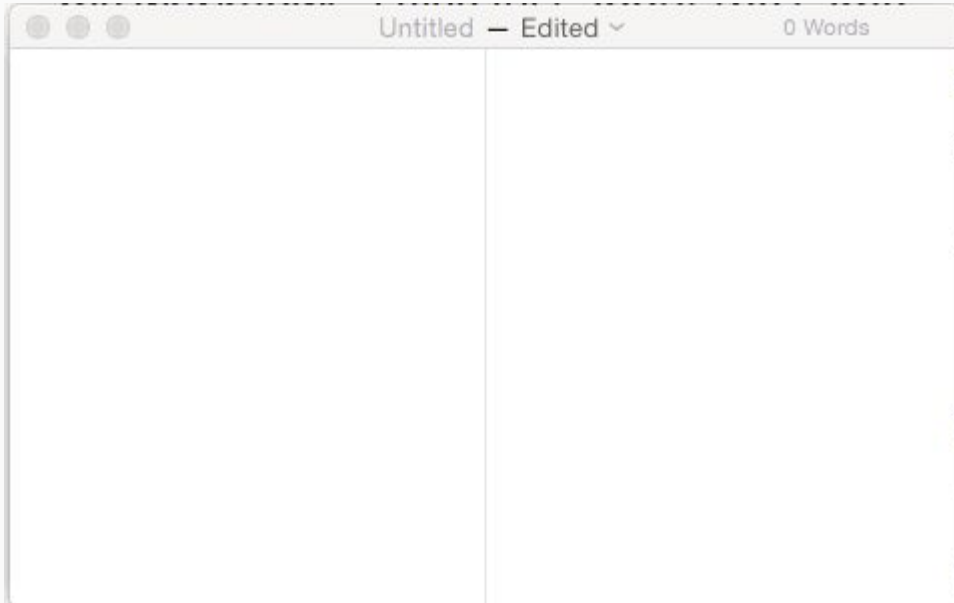
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Markdown (.md)




| Element | Syntax |
|------------------|--|
| Headings | # Level 1 Heading ## Level 2 Heading ### Level 3 Heading |
| Italic | *text* or _text_ |
| Bold | **text** or __text__ |
| Blockquote | > or >> |
| Links | [Site Name](Site URL) |
| Email address | <email address> |
| Images | ![Alt Text](Path to image) |
| Ordered list | 1. Item 1 2. Item 2 3. Item 3 |
| Unordered list | Use *, - or + * * Item 1 * Item 2 * Item 3 |
| Sublist | Use indentation 1. Item 1 1. Sub-Item 1 2. Sub-Item 2 2. Item 2 3. Item 3 |
| Inline Code | `code` |
| Code block | ``` code here ``` |
| Horizontal rules | --- or *** |



README.md

The screenshot shows a GitHub repository page for 'Open-Science-Community-Saudi-Arabia / Open-Science-Community-in-Saudi'. The repository is public and has 22 commits, 3 watchers, and 2 forks. The main branch is 'main'. The repository description states: 'This is the repository where all the activities/Programmes for the Open Science Community in Saudi Arabia are added'. The repository contains several files and folders, including 'bin', 'docs', 'imgs', '.gitignore', 'CITATION.md', 'CODE_OF_CONDUCT.md', 'CONTRIBUTING.md', 'LICENSE', 'Open Science Community SA-01.png', and 'README.md'. The 'README.md' file is selected and shows the following content:

License: CC BY 4.0



OSCSA
Open Science Community Saudi Arabia

This is the repository where the all projects and activities of the Open Science Community in Saudi Arabia is documented and planned

The right sidebar contains sections for 'About', 'Releases', and 'Packages'. The 'About' section includes links for 'Readme', 'CC-BY-4.0 license', 'Code of conduct', 'Cite this repository', '0 stars', '3 watching', and '2 forks'. The 'Releases' section states 'No releases published' and provides a link to 'Create a new release'. The 'Packages' section states 'No packages published' and provides a link to 'Publish your first package'.



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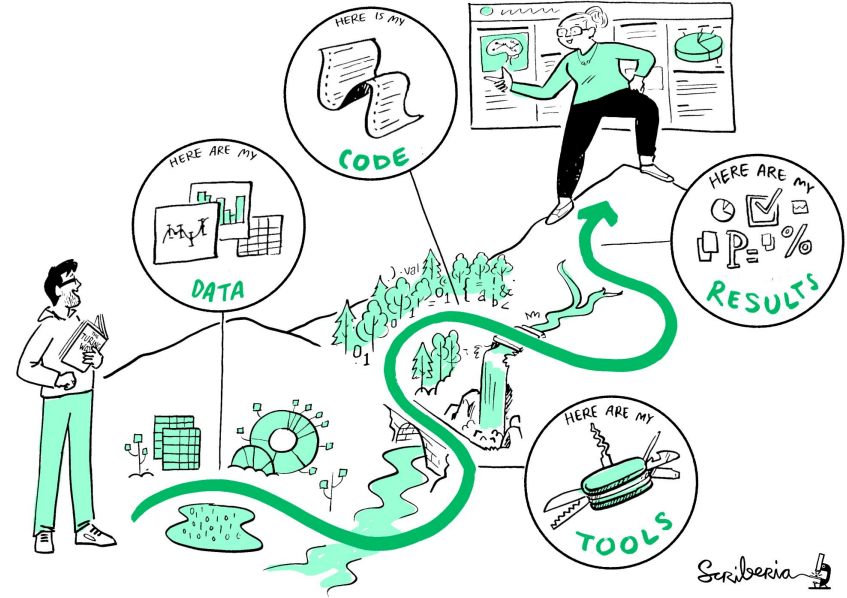


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ملاحظات مهمة عند إنشاء Repo

- Repo يجمع كل ملفات المشروع من إكواد ونتائج و بيانات.
- Repo يجب أن يحتوي على الملفات التالية أيضا (إذا كان مفتوح المصدر):
 - README.md
 - رخصة مفتوحة LICENSE.md
 - CONTRIBUTING.md
 - CONDUCT.md



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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README.md

The screenshot shows a GitHub repository page. At the top, the repository name is 'Open-Science-Community-Saudi-Arabia / Open-Science-Community-in-Saudi' with a 'Public' label. Navigation tabs include Code, Issues, Pull requests, Discussions, Actions, Projects (2), Wiki, Security, Insights, and Settings. Below the navigation, there are buttons for 'Go to file', 'Add file', and 'Code'. A commit history table is visible, listing recent commits by user 'BatoolMM' with details on file changes and commit dates. The main content area shows the 'README.md' file, which features the logo for 'Open Science Community Saudi Arabia' (OSCSA) and a brief description of the repository's purpose. The right sidebar contains an 'About' section with repository statistics (0 stars, 3 watching, 2 forks) and sections for 'Releases' and 'Packages', both indicating no published content.

| Commit | Author | Date | Commits |
|----------------------------------|----------|------------|---------|
| bin | BatoolMM | 2021-04-04 | 22 |
| docs | BatoolMM | 2021-04-04 | 22 |
| imgs | BatoolMM | 2021-04-04 | 22 |
| .gitignore | BatoolMM | 2021-04-04 | 22 |
| CITATION.md | BatoolMM | 2021-04-04 | 22 |
| CODE_OF_CONDUCT.md | BatoolMM | 2021-04-04 | 22 |
| CONTRIBUTING.md | BatoolMM | 2021-04-04 | 22 |
| LICENSE | BatoolMM | 2021-04-04 | 22 |
| Open Science Community SA-01.png | BatoolMM | 2021-04-04 | 22 |
| README.md | BatoolMM | 2021-04-04 | 22 |

OSCSA
Open Science Community Saudi Arabia

This is the repository where the all projects and activities of the Open Science Community in Saudi Arabia is documented and planned

<https://github.com/Open-Science-Community-Saudi-Arabia/Open-Science-Community-in-Saudi>



@OpenSciSaudi, @batool664







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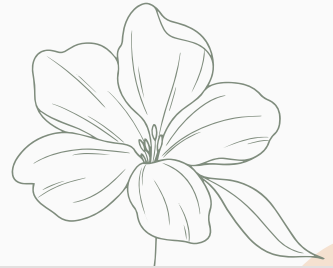


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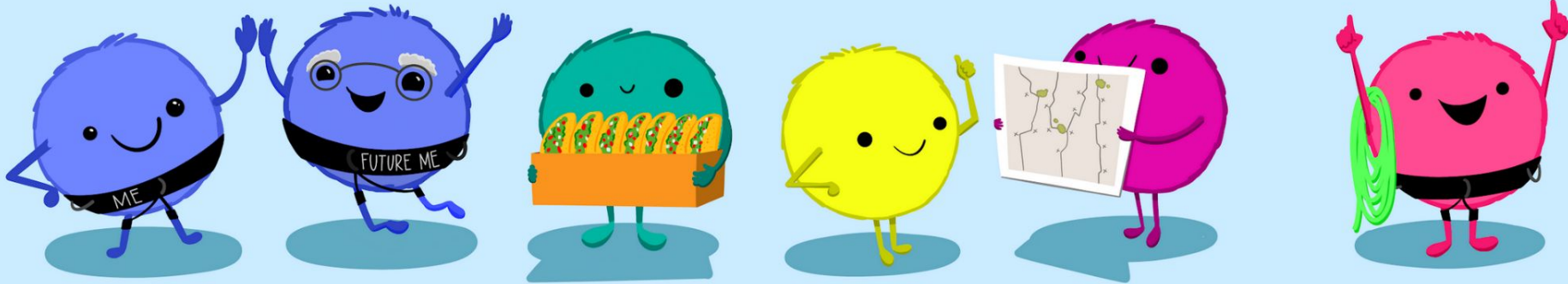
مفاهيم أساسية

- Commit 
- Fork 
- Pull request 
- Merge 



“**Collaboration is the most compelling reason to manage a project with Git and GitHub.** My definition of collaboration includes hands-on participation by multiple people, including your past and future self, as well as an asymmetric model, in which some people are active makers and others only read or review.”

-JENNY BRYAN





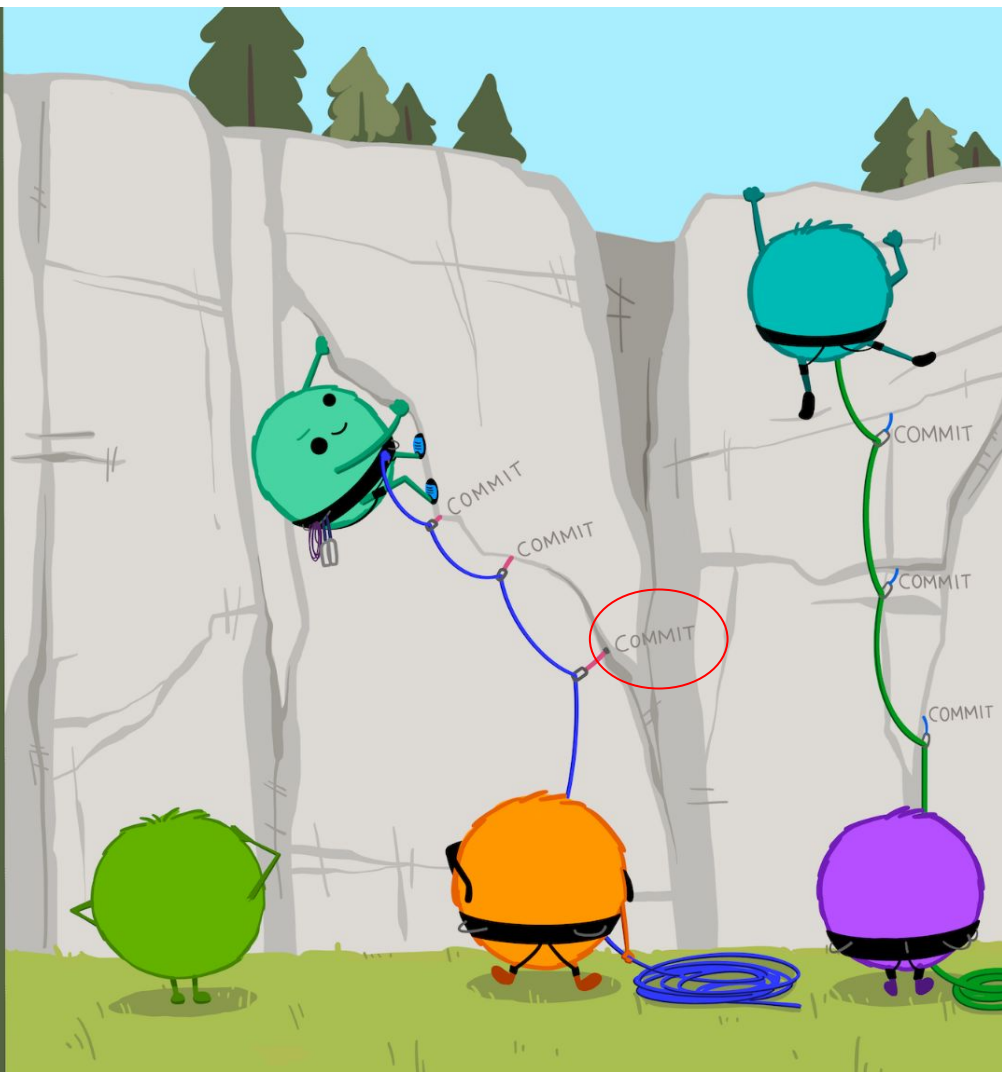
Using a Git commit is like using anchors and other protection when climbing...**if you make a mistake, you can't fall past the previous commit.**

Commits are also helpful to others, because **they show your journey, not just the destination.**

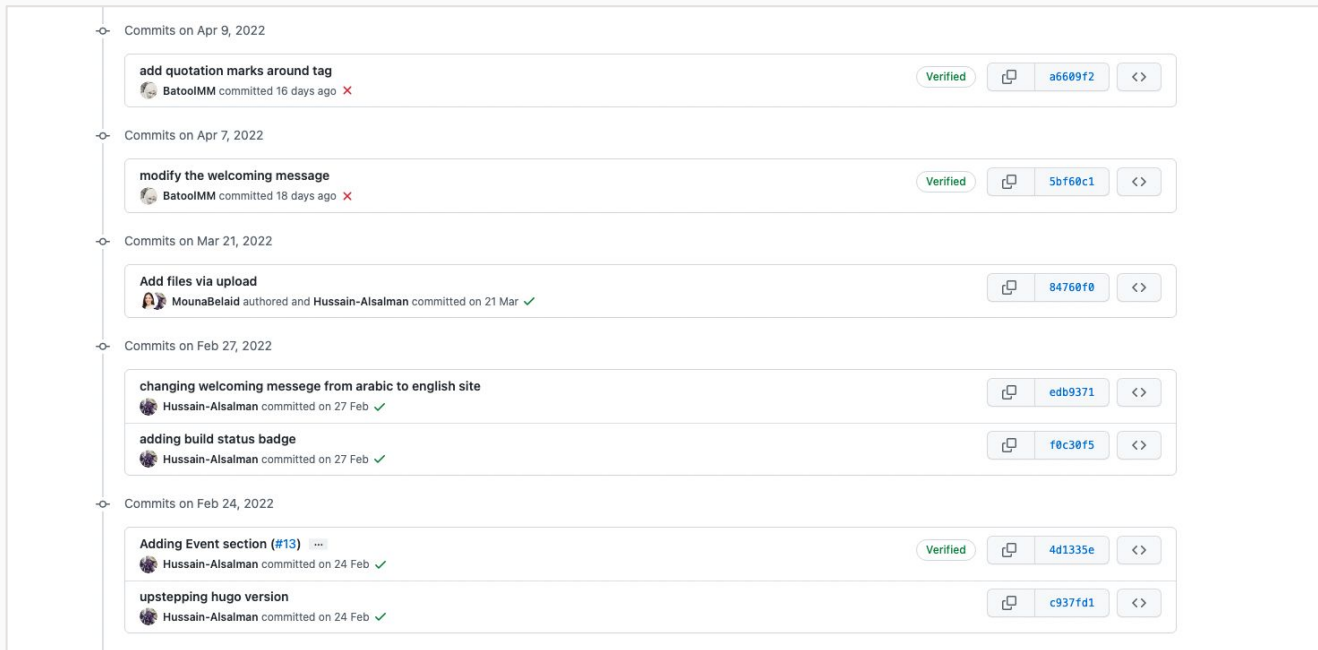
- HADLEY WICKHAM & JENNY BRYAN

Credit: This slide and illustrations are taken from from the [Openscapes](https://www.openscapes.com/) blog [GitHub for supporting, contributing, and failing safely](https://www.openscapes.com/blog/git-for-supporting-contributing-and-failing-safely) by Allison Horst and Julia Lowndes

Wickham & Bryan, RPackages (<https://r-packages.org/preface.html>)

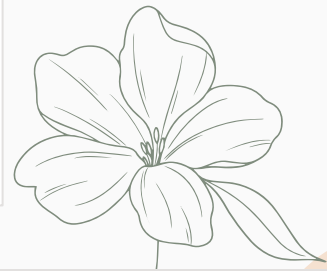


Commit



The screenshot displays a list of GitHub commits, organized by date. Each commit entry includes a title, the author's name, the commit date, a verification status, a copy icon, a commit hash, and a code diff icon.

- Commits on Apr 9, 2022**
 - add quotation marks around tag** (Verified) `a6609f2` by **BatoolMM** committed 16 days ago
- Commits on Apr 7, 2022**
 - modify the welcoming message** (Verified) `5bf60c1` by **BatoolMM** committed 18 days ago
- Commits on Mar 21, 2022**
 - Add files via upload** `84760f0` by **MounaBelaid** authored and **Hussain-Alsaman** committed on 21 Mar
- Commits on Feb 27, 2022**
 - changing welcoming messege from arabic to english site** `edb9371` by **Hussain-Alsaman** committed on 27 Feb
 - adding build status badge** `f0c30f5` by **Hussain-Alsaman** committed on 27 Feb
- Commits on Feb 24, 2022**
 - Adding Event section (#13)** (Verified) `4d1335e` by **Hussain-Alsaman** committed on 24 Feb
 - upstepping hugo version** `c937fd1` by **Hussain-Alsaman** committed on 24 Feb



@OpenSciSaudi, @batool664

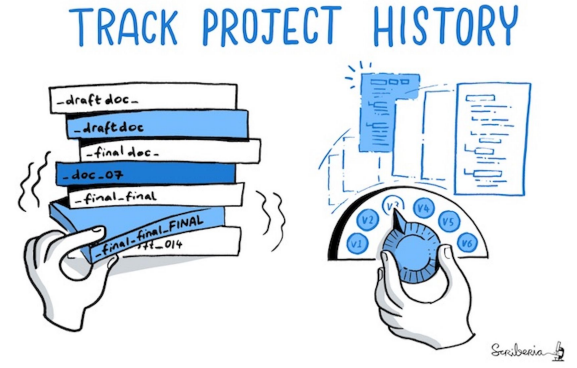
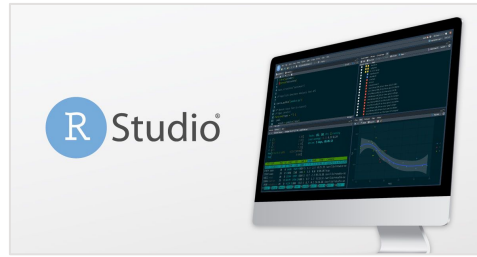
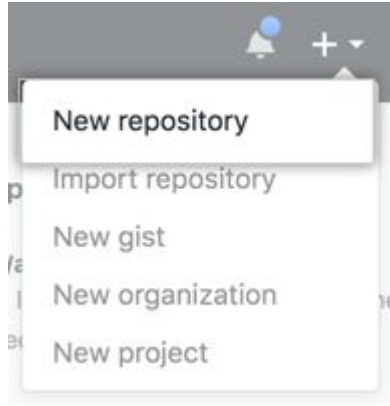


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نكون Repo لكي يحتفظ بملفات المشروع ونتعاون فيه مع آخرين

نقل Repo للRStudio

نغير فيه ونعكس التغييرات في GitHub

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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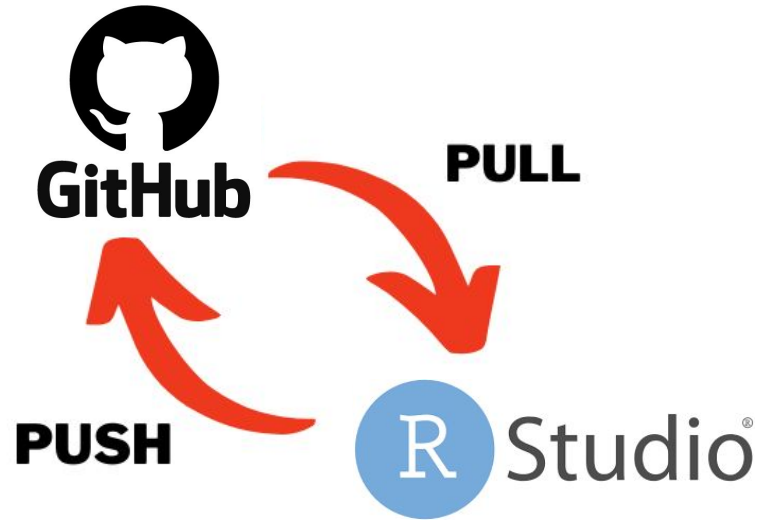


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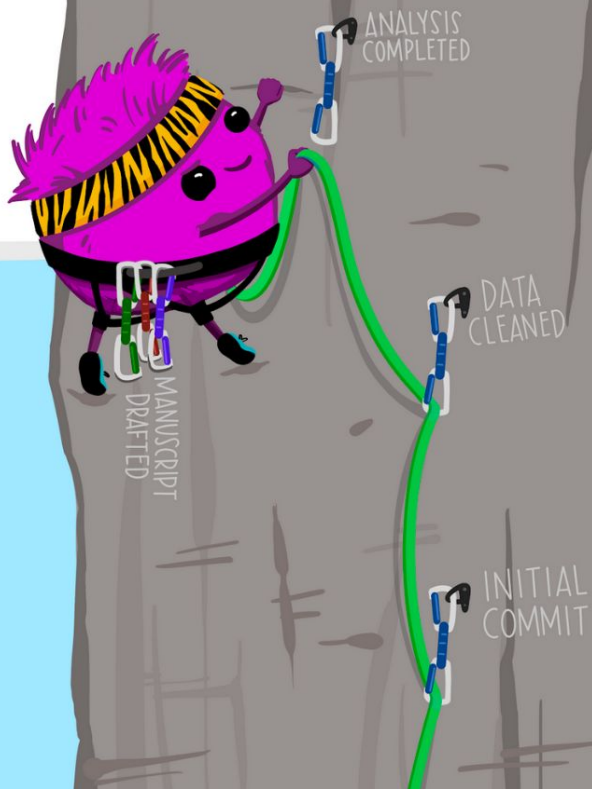
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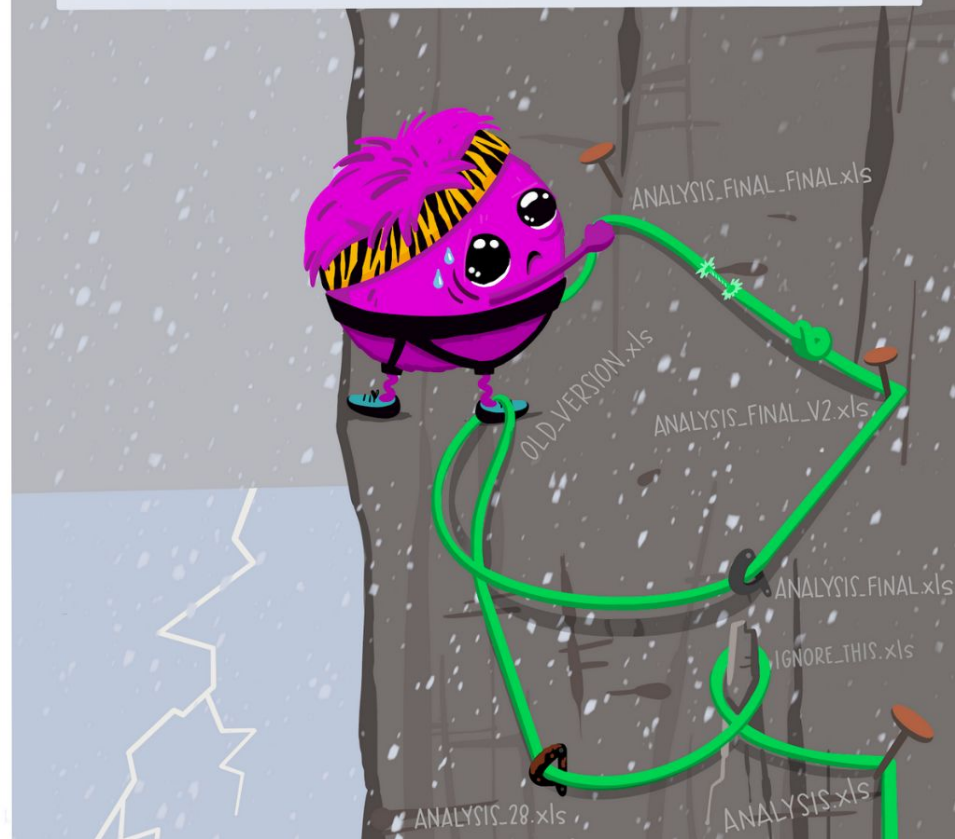


When working with GitHub, we can navigate with more obvious, safe, streamlined routes that let us focus on the science-y things we want to do...



Credit: This slides and illustrations are taken from from the [Openscapes](#) blog GitHub for supporting, contributing, and failing safely by Allison Horst and Julia Lowndes

...but working without GitHub can be disorienting, with too much time spent sifting through past work to figure out next steps forward.



Credit: This slides and illustrations are taken from from the [Openscapes](#) blog GitHub for supporting, contributing, and failing safely by Allison Horst and Julia Lowndes



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CodeFactoryBerlin / OpenSourceRepoTemplate Template

<> Code Pull requests Actions Security Insights Settings

main ▾

1 branch 0 tags

Go to file

Add file ▾

Code ▾

Use this template



SouliCool add src folder

da80c0d 18 hours ago 6 commits

| | | |
|---------|-------------------|------------|
| .config | initial structure | 6 days ago |
| build | initial structure | 6 days ago |
| dep | initial structure | 6 days ago |
| doc | initial structure | 6 days ago |
| res | initial structure | 6 days ago |
| samples | initial structure | 6 days ago |



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Pull requests Issues Marketplace Explore

All GitHub ↵

 BatoolMM ▾
 You've been added to the  R-Girls organization!

Repositories 59K

Code 16M

Commits 54K

Issues 32K

Discussions 426


Packages 54

Marketplace 0

Topics 0

Wikis 9K


Users 13


R
★ Unstar

R is a free programming language and software environment for statistical computing and graphics.

[See topic](#)


59,895 repository results Sort: Best match ▾


[rabbitmq/rabbitmq-tutorials](#)

Tutorials for using RabbitMQ in various ways

[rabbitmq](#) [tutorials](#)


☆ 5.9k ● Java Apache-2.0 license Updated 8 days ago


[h2oai/h2o-tutorials](#)

Tutorials and training material for the H2O Machine Learning Platform

[python](#) [machine-learning](#) [data-science](#) [tutorial](#) [r](#) [deep-learning](#) [h2o](#)


☆ 1.4k ● Jupyter Notebook Updated on 8 Apr


[geeeeeeeek/git-recipes](#) Public archive

Git recipes in Chinese by Zhongyi Tong. 高质量的Git中文教程.

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☆ 14.2k Updated on 4 Mar 2019


[rust-embedded/rust-raspberrypi-OS-tutorials](#)
❤ Sponsor

Learn to write an embedded OS in Rust 🦀

[rust](#) [tutorial](#) [bare-metal](#) [raspberrypi](#) [kernel](#) [os](#) [operating-system](#) [raspberrypi](#) [rpi3](#) [arm64](#)

[aarch64](#) [armv8](#) [raspberrypi-3](#) [embedded-rust](#) [rpi4](#) [raspberrypi-4](#)

☆ 8.6k ● Rust Apache-2.0 license Updated 8 days ago



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دورك الآن :

إبحث عن Repository يتناول تخصصك و انسخ رابطته في
Google doc



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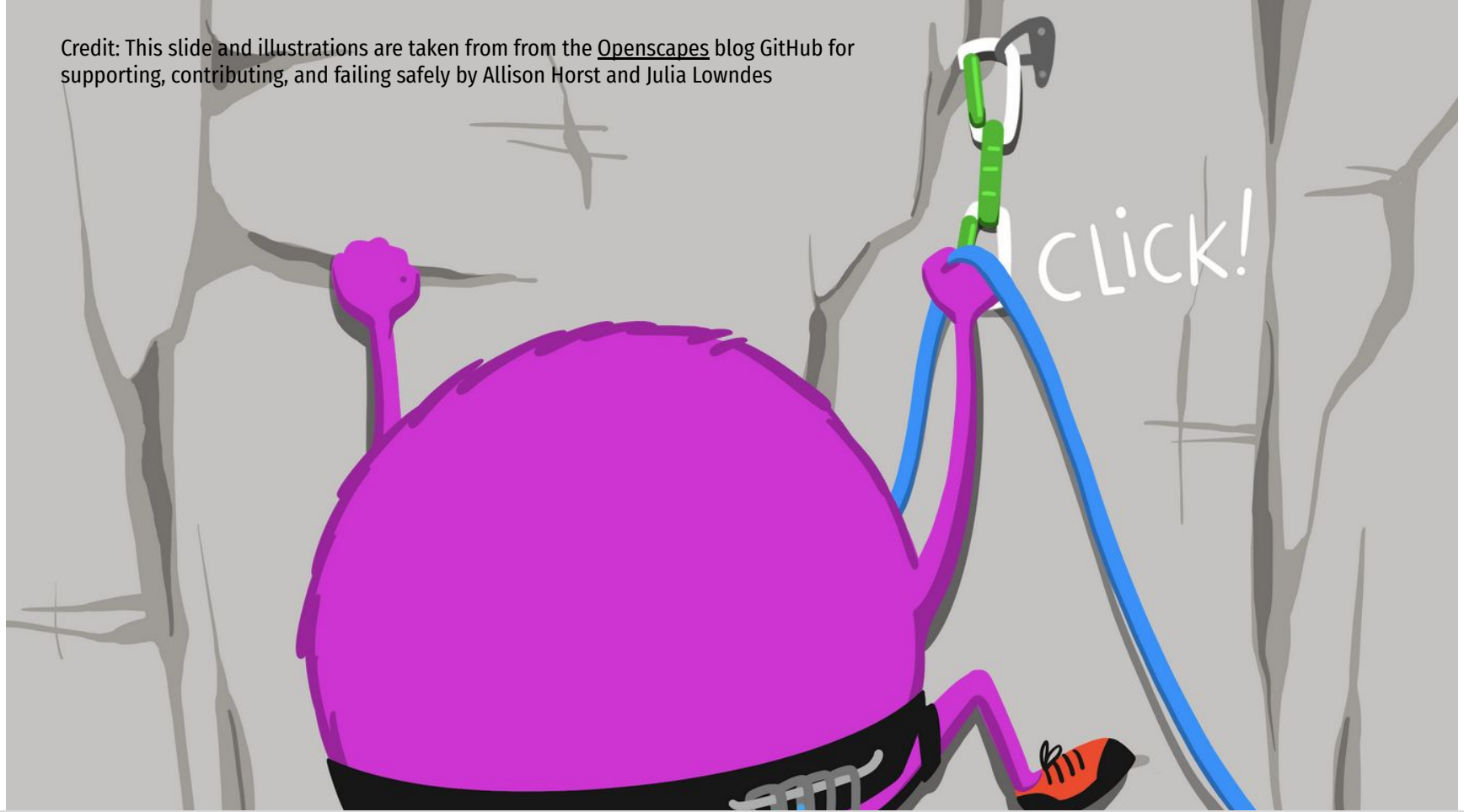
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Credit: This slide and illustrations are taken from from the [Openscapes](#) blog GitHub for supporting, contributing, and failing safely by Allison Horst and Julia Lowndes



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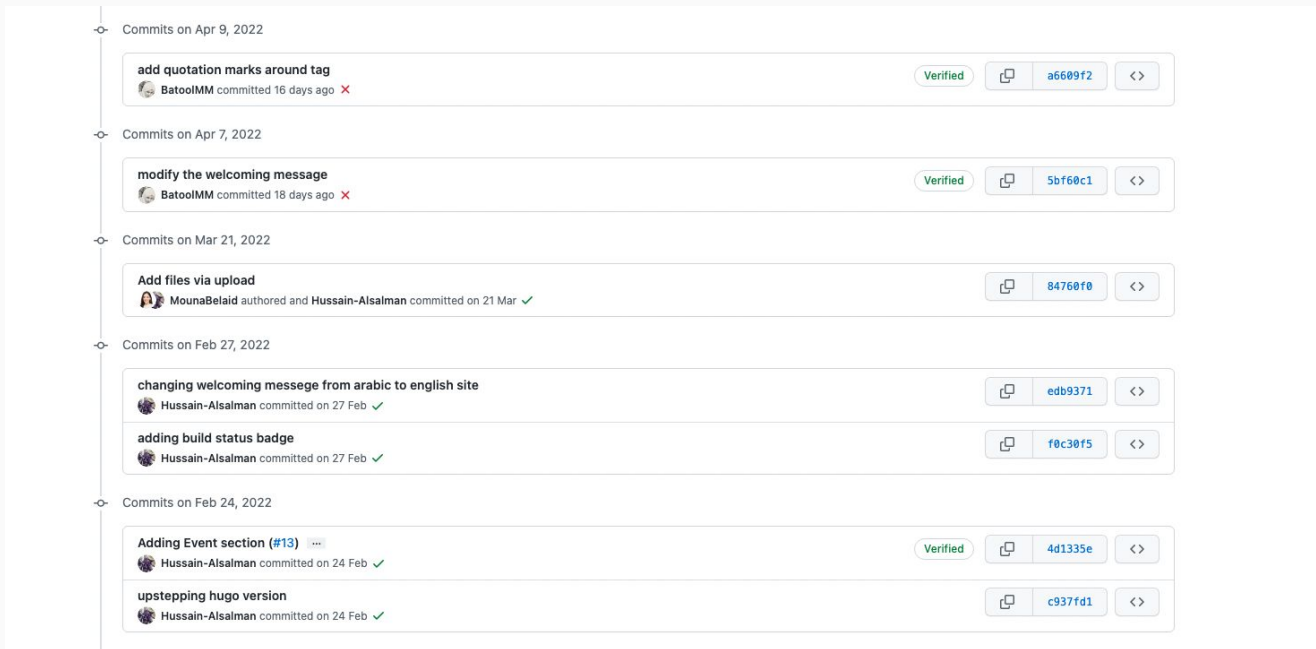
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مفاهيم أساسية

- Commit 
- Fork 
- Pull request 
- Merge 

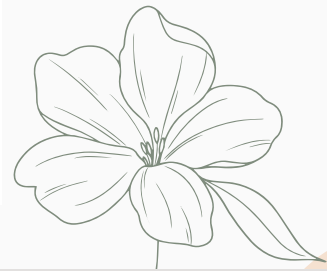


Commit



The screenshot displays a list of GitHub commits, grouped by date. Each commit entry includes a title, the author's name, the commit date, a verification status, a copy icon, a commit hash, and a code diff icon.

- Commits on Apr 9, 2022**
 - add quotation marks around tag** (Verified) `a6609f2` by **BatoolMM** committed 16 days ago
- Commits on Apr 7, 2022**
 - modify the welcoming message** (Verified) `5bf60c1` by **BatoolMM** committed 18 days ago
- Commits on Mar 21, 2022**
 - Add files via upload** `84760f0` by **MounaBelaid** authored and **Hussain-Alsaman** committed on 21 Mar
- Commits on Feb 27, 2022**
 - changing welcoming messege from arabic to english site** `edb9371` by **Hussain-Alsaman** committed on 27 Feb
 - adding build status badge** `f0c30f5` by **Hussain-Alsaman** committed on 27 Feb
- Commits on Feb 24, 2022**
 - Adding Event section (#13)** (Verified) `4d1335e` by **Hussain-Alsaman** committed on 24 Feb
 - upstepping hugo version** `c937fd1` by **Hussain-Alsaman** committed on 24 Feb



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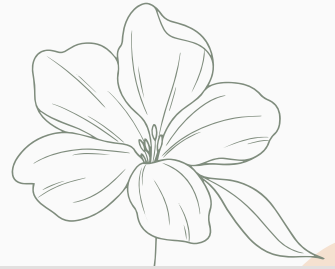
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Fork

- **Fork:** نسخة جديدة من الريبو تحت اسمي الخاص لكي أعدل عليها

 ArabR / ArabR-Website Public



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Fork

- **Fork:** نسخة جديدة من الريبو تحت اسمي الخاص لكي أعدل عليها

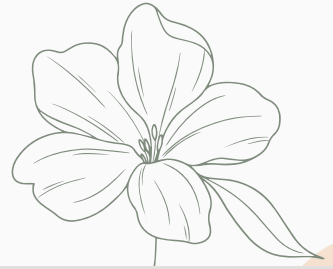
 ArabR / ArabR-Website Public

 Unpin

 Unwatch 2 

 Fork 1

 Starred 6 



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Fork


- **Fork:** نسخة جديدة من الريبو تحت اسمي الخاص لكي أعدل عليها

 ArabR / ArabR-Website Public

 BatoolMM / ArabR-Website Public

forked from ArabR/ArabR-Website

Fork

 Unpin

 Unwatch 2 ▾

 Fork 1

 Starred 6 ▾



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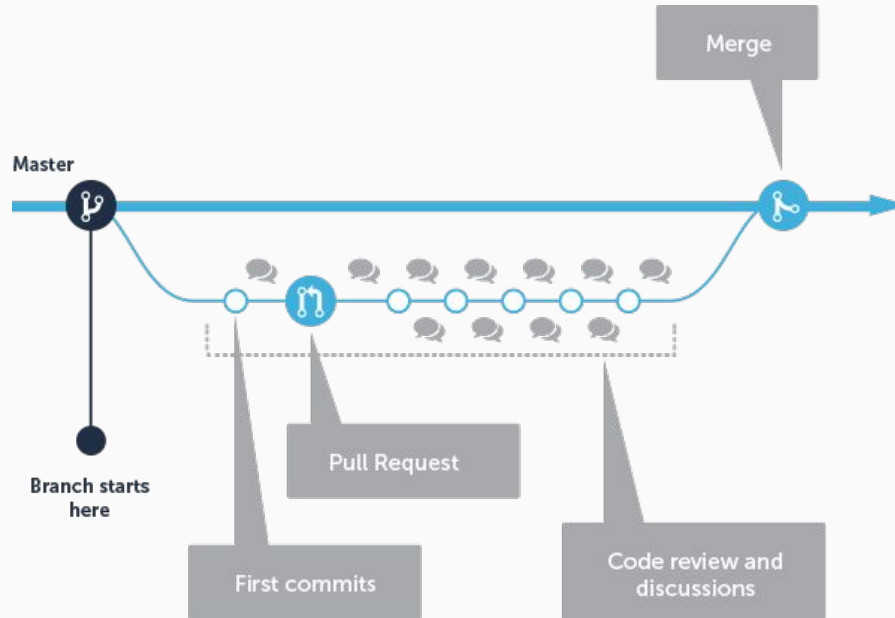


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Pull Request (PR)

- طلب أن يتم دمج الفورك بعد مراجعة التغييرات PR:



دورك الآن

The screenshot shows a GitHub repository page for 'BatoolMM / from-zero-to-hero-in-r'. The repository is public and generated from a template. The main content area displays a file tree with the following items:

| File/Folder | Commit Message | Time Ago |
|------------------------------|-----------------|----------------|
| .github/workflows | Initial commit | 2 hours ago |
| bin | Initial commit | 2 hours ago |
| data | Initial commit | 2 hours ago |
| docs | Initial commit | 2 hours ago |
| imgs | Initial commit | 2 hours ago |
| results | Initial commit | 2 hours ago |
| .gitignore | Initial commit | 2 hours ago |
| CITATION.md | Initial commit | 2 hours ago |
| CODE_OF_CONDUCT.md | Initial commit | 2 hours ago |
| CONTRIBUTING.md | Initial commit | 2 hours ago |
| LICENSE | Initial commit | 2 hours ago |
| Makefile | Initial commit | 2 hours ago |
| README.md | add new section | now |
| from-zero-to-hero-in-r.Rproj | add .rproj | 29 minutes ago |

The README.md file is open, showing the title 'From Zero to hero'. On the right side, the 'About' section describes it as 'An Arabic course to introduce R' with links to 'tutorial', 'course-materials', 'rstats', and 'tutorial-exercises'. It also lists repository statistics: 0 stars, 1 watching, and 0 forks. The 'Releases' and 'Packages' sections indicate no published content. The 'Languages' section shows 'Makefile' at 100.0%.



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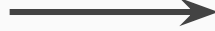


دورك الآن



Fork

نسخ المشروع لحسابي
الشخصي



commit

أضيف أسمي



PR



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مبرووووووك



You now know:

Commit



Fork



Pull request



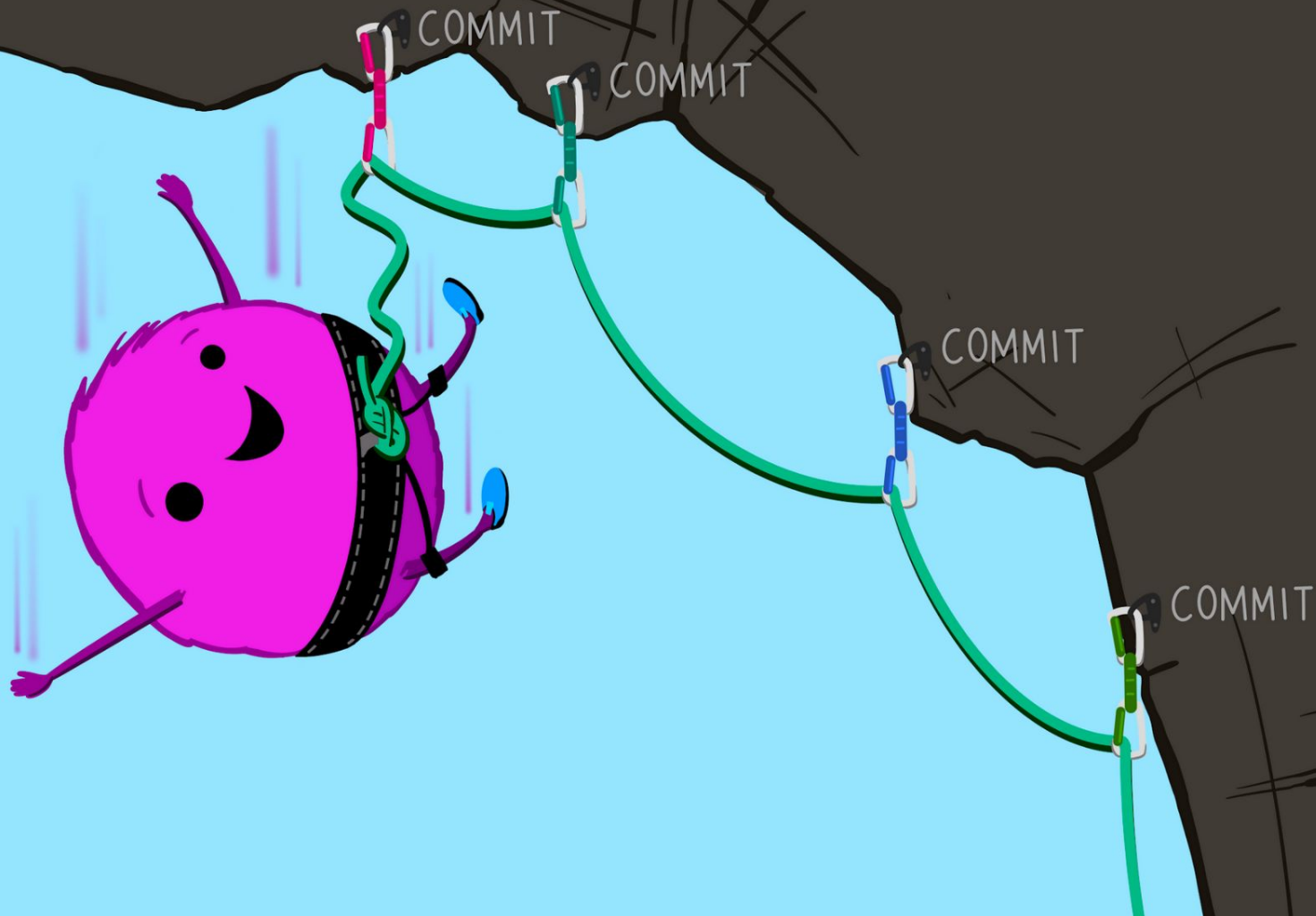
Merge



هناك الكثير من ميزات في جيت
هوب والتي سوف تتعلمها
بالتدرج



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A whole new world of projects that feel more welcoming because we can contribute in many different ways



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؟



الواجب

● مراجعة الكورس التالي في GitHub

<https://lab.github.com/githubtraining/introduction-to-github> ○

<https://lab.github.com/githubtraining/communicating-using-markdown> ○

● Submit PR in Glosario

<https://github.com/carpentries/glosario> ○

○ ترجم أحد المصطلحات و أضفها Pull Request

● إكمال Feedback



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شكراً جزيلاً



All GIFs are re-used from GIFY.com



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