



Bridging JavaScript Documentation with Quarto's Power

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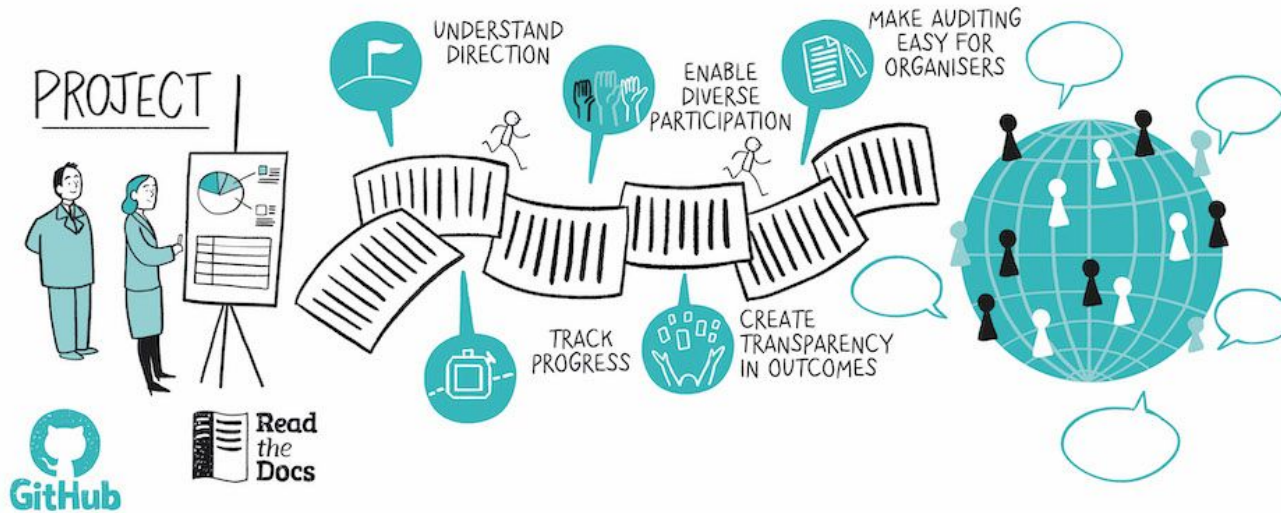
Goodnews Sandy



A close-up photograph of a person's hands organizing a large wooden filing cabinet. The cabinet is filled with numerous colorful folders, and the person is seen placing a folder into one of the compartments. The image is overlaid with a semi-transparent white band containing the word "Documentation" in a bold, blue, sans-serif font.

Documentation

Good documentation



93% of developers consider comprehensive documentation crucial for open-source projects.

Image by Scriberia for The Turing Way , CC-BY 4.0, Zenodo: <https://zenodo.org/record/7716933>

What already exist?



MkDocs

Complications/Challenges

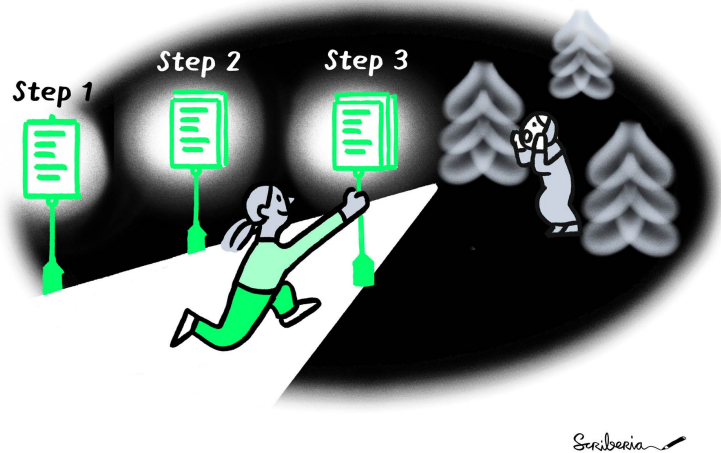


- It is not **supporting multilingualism** especially RTL languages and non-latin scripts
- **No flexibility** in the design of the docs
- Doesn't support JS



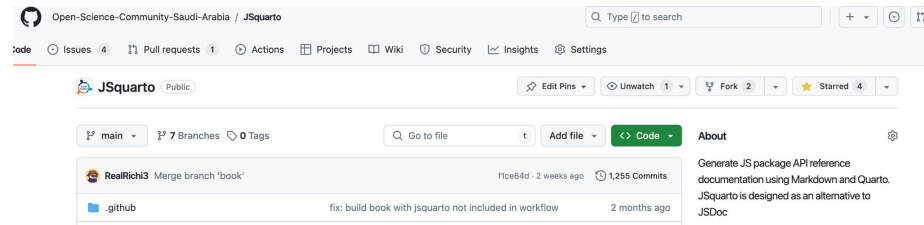
Can we improve process of generating JavaScript Docs with Quarto?

DOCUMENTATION



Senbeera

Inspired by quartodoc, we created JSQuarto



Generating the Doc

```
/**
 * Recursively searches for JavaScript files in a directory
 * and its subdirectories.
 *
 * @description This function recursively traverses the specified
 * directory and its subdirectories to find JavaScript files (.js).
 * ...
 *
 * @param directory The directory to search for JavaScript files.
 * ...
 */
function getJSFilesFromDirectory(
  ...directory: string,
  ...
): string[] {
  ...const items = fs.readdirSync(directory);
  ...
  ...
}
```

getJSFilesFromDirectory

[function]

→ **Description:** This function recursively traverses the specified directory and its subdirectories to find JavaScript files (.js). It starts by checking each item in the directory. If the item is a directory, it recursively calls itself to search for JavaScript files within that directory. If the item is a JavaScript file, it adds the file path to an array of found JavaScript files.

```
jsq doc:generate source=<path to source files>
```



Generating the doc

Welcome to JSQuarto Documentation

About

JSQuarto is a tool designed to generate JavaScript package API reference documentation using Markdown and Quarto. It serves as an alternative to JSDoc, providing a simpler and more flexible approach for documenting JavaScript code.

Purpose

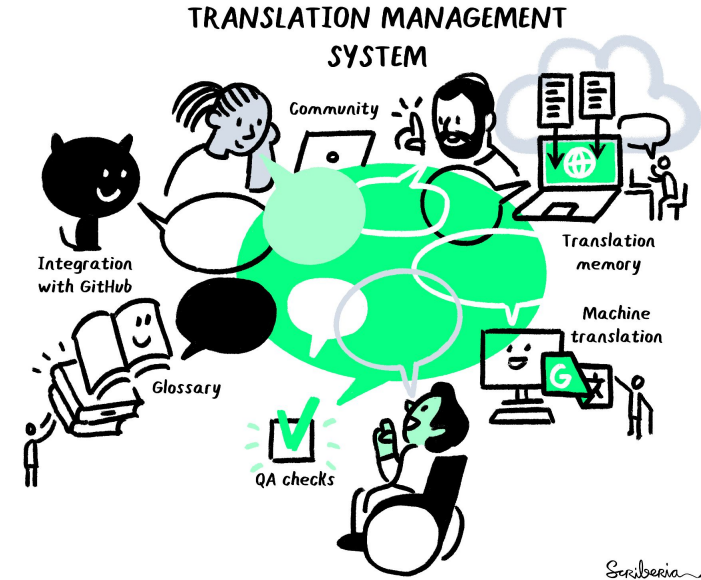
The purpose of JSQuarto is to streamline the process of generating API reference documentation for JavaScript packages. By leveraging Markdown and Quarto, developers can easily create and maintain comprehensive documentation for their JavaScript projects.

Inspiration

```
jsq doc:generate
```



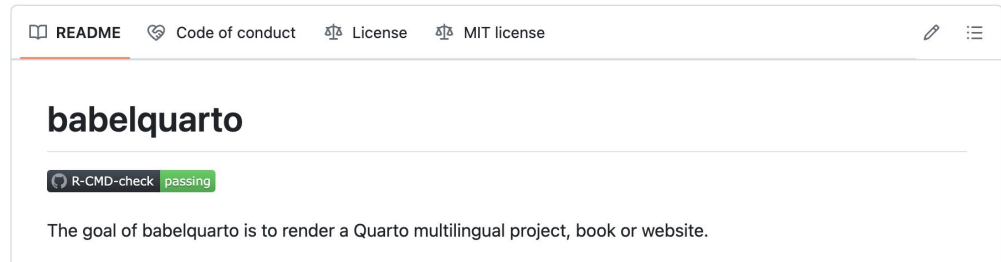
Multilingualism in many ways



It can be integrated with Translation Management System particularly crowdin which do machine translation, have translation memory, create glossary, QA checks



Multilingualism in many ways



Also, work with **babelquarto** package which was created by **Maëlle Salmon**



Rendering in multiple languages



Utilities معرف البناء <

معرف البناء

الفصل المسمى بناء، يحتوي على طرق لتحديد أنواع مختلفة من ال
والفصول والوحدات) ضمن سطر من الكود. وتساعد هذه الطرق في
أنواع البناء.

معرف البناء

[class]

غير معروف

[function]

الوصف: يسترد اسم بناء الوحدة من سطر معين من التعليمات البرمجية
المعاملات (Params):

Title in ar

Version in ar
Version in en

JSQuarto

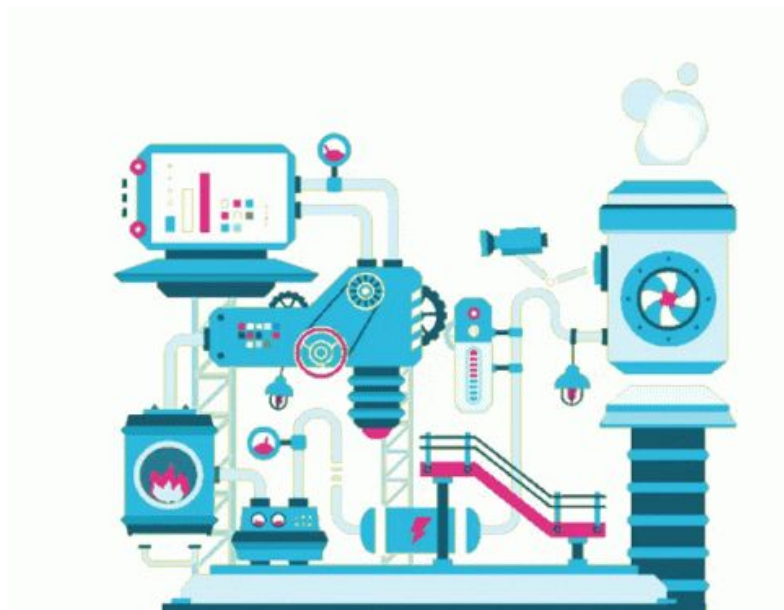
Globals
Utilities

معرف البناء
ملف
Commentsutil
المكونات
ملف
Logger
Parser
الكاتب

```
jsq config:set languages=en,ar  
jsq doc:generate
```



Automation with Github



New book build with babelquarto #193

[Open](#) [book](#) [← build_book-2024-07-09-16-55-41](#) [📄](#) [👁](#)

Conversation 1 - Commits 7 - Checks 3 - Files changed 131

github-actions (bot) commented 3 weeks ago Contributor

🔥 An automated PR

Automated PR build book with babel-quarto

Created by [repo-sync/pull-request](#)

📁 **RealRichi3** and others added 7 commits 3 weeks ago

- 👤 update crowdin_integration_guide 1a39666
- 👤 update crowdin integration workflow guide 67d8185
- 👤 New translations crowdin_integration.qmd (Arabic, Saudi Arabia) f14ecb4
- 👤 New translations workflows.qmd (Arabic, Saudi Arabia) 76c822f
- 👤 New translations tutorial_overview.qmd (Arabic, Saudi Arabia) ✓ 774f7c9



Install JSQuarto via npm

npm

Search packages

Search

Sign Up

Sign

@oscsa/jsquarto

1.0.7 • Public • Published a month ago

Readme

Code Beta

8 Dependencies

0 Dependents

7 Versions

JSQuarto

Generate JS package API reference documentation using Markdown and Quarto.

[Explore the docs »](#)

[View Demo](#) · [Report Bug](#) · [Request Feature](#)

Install

```
> npm i @oscsa/jsquarto
```

Repository

github.com/Open-Science-Community-Saudi-Arabia/jsquarto

Homepage

jsquarto.netlify.app/



@OpenSciSaudi



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



<https://osc-ksa.com>



Value of JSquarto

- **Simplifies** process of creating documentation
- Supports developers **worldwide** by providing localised documentation.



Thank you!

Useful Links

- [Twitter](https://twitter.com/MolunoRichie): x.com/MolunoRichie
- [Book](https://jsquarto.netlify.app): jsquarto.netlify.app
- [NPM Package](https://npmjs.com/package/@oscsa/jsquarto): npmjs.com/package/@oscsa/jsquarto
- [GitHub](https://github.com/Open-Science-Community-Saudi-Arabia/JSquarto):
github.com/Open-Science-Community-Saudi-Arabia/JSquarto

