

QGIS Full Stack Developer 2025 Report

Summary

As we step into 2026, it's a great time to reflect on the progress made in 2025 and outline the goals that will guide us this year. The development and maintenance of QGIS websites play a vital role in the success of the project, and we are committed to continuous improvement.

Here's a detailed overview of what we accomplished in 2025.

Goal 1: Harmonize all servers OS and Decommissioning Old Infrastructure

During this year, we continued working with Ivan to migrate all websites to a declarative, GitOps model based on CI/CD, ensuring a modern, efficient infrastructure. The old servers, domains, and repositories will be turned off once the migration is complete.

Ivan successfully designed and implemented the initial configurations for the new infrastructure in the first half of the year. The second half of the year was dedicated to familiarization, local testing, and refinement of the infrastructure to align with existing implementations in preparation for deployment. The plan is to onboard the QGIS DevOps team and complete the migration by the beginning of next year.

The following table summarizes our roadmap for the migration to this new infrastructure.

Tasks	2025												2026					
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
Design and base implementation	Done																	
Configurations for the static sites		Done	Done	Done	Done	Done												
Configurations for Django sites		Done	Done	Done	Done	Done												
Getting familiar with all configurations						Done	Done											
Local testing						Done	Done	Done										
Patches and fixes for static sites							Done	Done	Done	Done								
Patches and fixes for Django sites							In progress	In progress	In progress	In progress	In progress							
Patches for the deployment process							Done	Done	Done	Done	Done							
Documentation and helpers							Done	Done	Done	Done	Done							
Self-hosted runner for CI tests									Done	Done								
Caching and CI/CD improvements										In progress	In progress							
Staging deployment tests									In progress	In progress	In progress							
DevOps team onboarding													ToDo	ToDo				
Live deployment															ToDo	ToDo		

Done

In progress

ToDo

Goal 2: Enhancing Branding Consistency

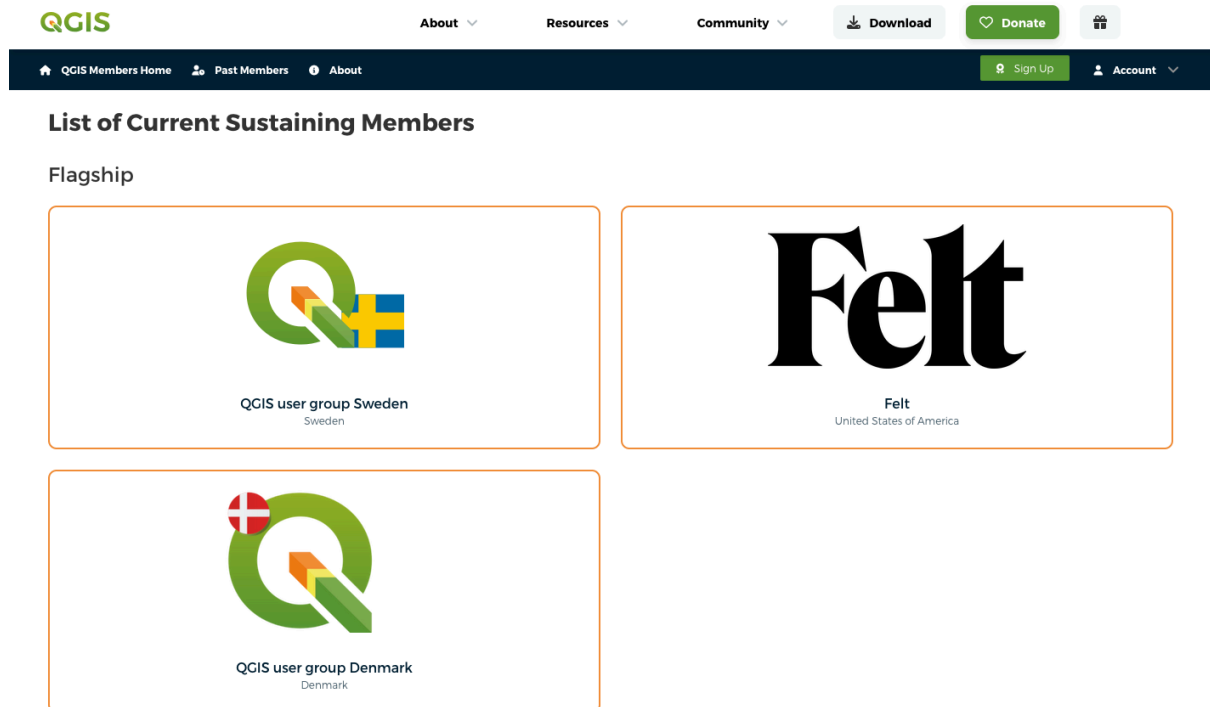
Building on last year's progress, we also did a further alignment of the branding across all websites to match the refreshed **QGIS.org** design, including updates to the secondary navigation bar and QGIS feed layout.

During the first half of the year, we have successfully updated and launched seven (7) [QGIS.org](https://qgis.org) subdomain websites:

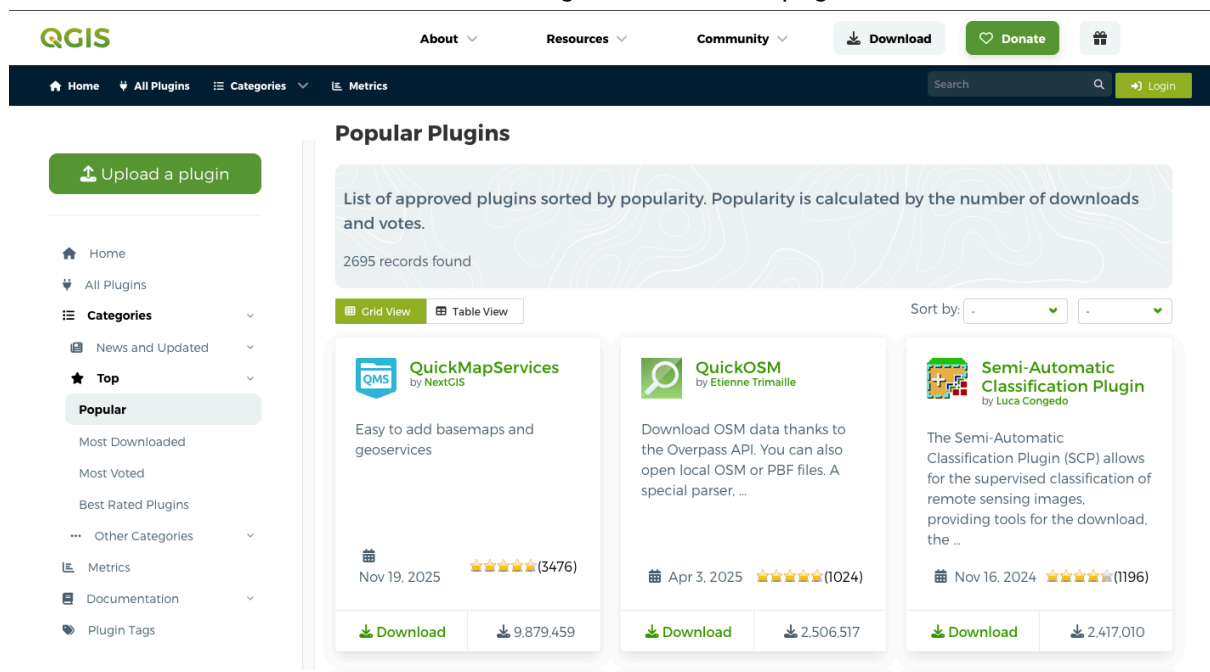
- plugins.qgis.org: QGIS Plugins web portal
- hub.qgis.org: QGIS Resources hub web portal
- planet.qgis.org: QGIS Planet blog posts
- certification.qgis.org: QGIS Certification programme website
- changelog.qgis.org: QGIS past versions changelog

- members.qgis.org: QGIS Sustaining members website
- uc2025.qgis.org: QGIS User Conference website

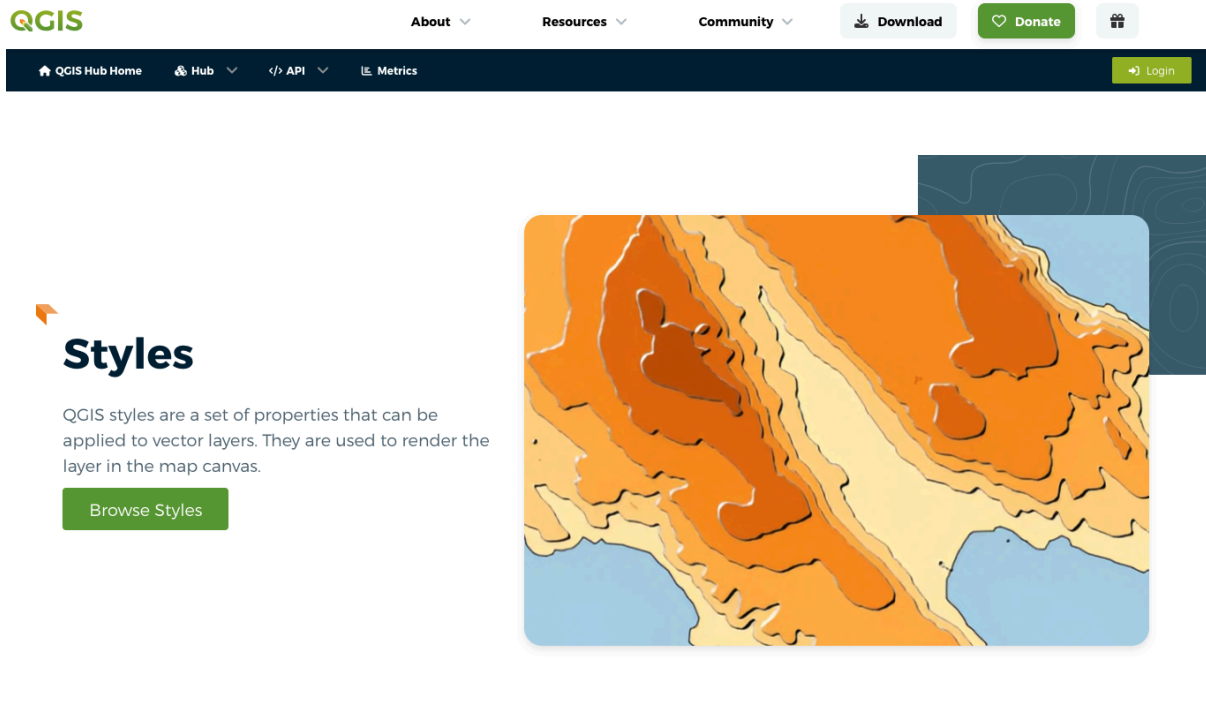
You'll find below some screenshots of these updates:



QGIS Sustaining Members Homepage



QGIS Plugins lists



QGIS Hub Homepage

Goal 3: Split all services so that each one runs on its own VPS

Building upon last year's efforts, we successfully completed the separation of the Plugins and Changelog websites into distinct entities. We also launched the new User Conference page. The following is a summary of the tasks accomplished toward this goal.:

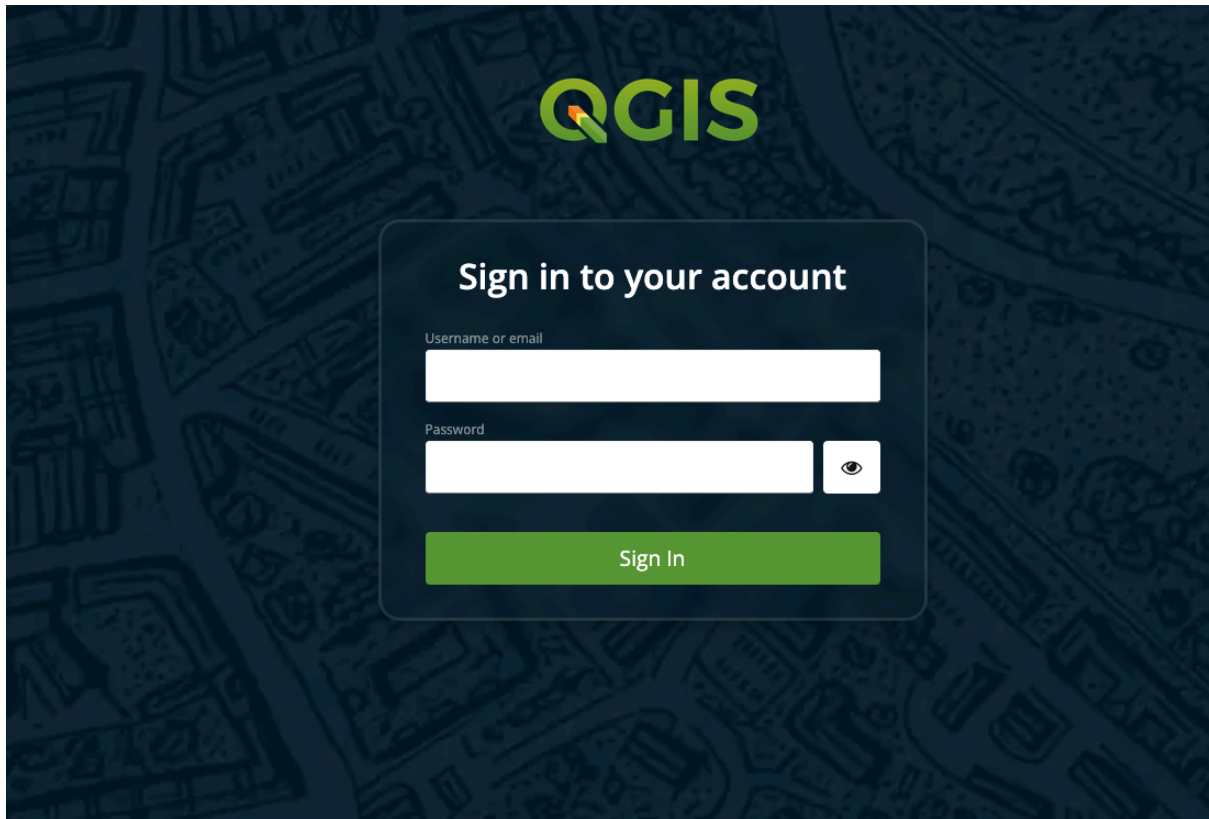
- The separation of the QGIS Plugins into distinct sites was largely completed last year, culminating in their successful deployment in February 2025. This deployment was achieved with the valuable assistance of Tim and Dimas, resulting in the creation of three new sites: plugins.qgis.org, hub.qgis.org, and planet.qgis.org.
- Similarly, the QGIS Changelog and related sites were developed as a fork of the Projecta application (<https://github.com/kartoza/prj.app>). Kartoza (<https://kartoza.com/>) generously donated this application to QGIS, which we then separated into three distinct services: changelog.qgis.org, certification.qgis.org, and members.qgis.org. These websites were successfully deployed in April 2025, with Tim's support.

Goal 4: Unified Logins and PassKeys

This goal involves implementing unified logins and **PassKeys** to enhance security and streamline user access across QGIS websites.

A new repository has been established at <https://github.com/qgis/QGIS-Auth-Website>, and initial work has begun on various tasks. However, the full implementation and deployment of this will occur concurrently with the new infrastructure rollout, meaning the deployment is

contingent upon the completion of all tasks outlined in Goal 1.



Preview of the QGIS Authentication Website Login Page

Goal 5: Improving Server Performance

To reduce monitoring notifications and improve reliability, the main tasks in this goal would be to address server performance issues by:

- Setting up multi-regional servers with load balancers.
- Using **S3 buckets** for scalable storage.

Progress on this goal is currently limited due to the focus on completing Goal 1. The setup of the load balancers is likely dependent on the successful completion of Goal 1.

Please see Goal 7 for more details about the S3 bucket usage.

Goal 6: Optimising Network Traffic

Following the successful approach used on **QGIS.org**, we have adopted an internal static file management and performance optimizations across all revamped websites mentioned in Goal 2.

Status	Method	Domain	File	Initiator	Type	Transferred	Size
200	GET	plugins.qgis.org	/	document	html	18.29 kB	117.81 ...
204	POST	plugins.qgis.org	rum	vcd15cbe7772f49c399...	plain	2.23 kB	0 B
200	GET	plugins.qgis.org	main.04897e4c177bfdcaec16.css	stylesheet	css	57.31 kB	454.4...
200	GET	plugins.qgis.org	main.2dc052f2999c25c543e2.js	script	js	88.44 kB	263.4...
200	GET	plugins.qgis.org	fontawesome.min.css	stylesheet	css	23.93 kB	114.07...
200	GET	plugins.qgis.org	bulma.js	script	js	943 B	326 B
200	GET	plugins.qgis.org	cookieinfo.min.js	script	js	3.88 kB	7.65 kB
200	GET	qgis.github.io	index.js	script	js	13.14 kB	37.81 ...
200	GET	plugins.qgis.org	moment.min.js	script	js	40.93 kB	174.6...
200	GET	plugins.qgis.org	local_timezone-1.0.js	script	js	1.18 kB	1.06 kB
200	GET	static.cloudflareinsights.com	vcd15cbe7772f49c399c6a5babf22c1241717689176015	script	js	7.27 kB	19.95 ...
200	GET	plugins.qgis.org	dpg-badge.png	img	png	22.37 kB	21.63 ...
200	GET	plugins.qgis.org	large-logo.svg	img	svg	2.19 kB	3.51 kB
200	GET	plugins.qgis.org	c07b481e4a56814772feb7530a4bd672.png	img	png	1.53 kB	793 B
200	GET	plugins.qgis.org	ddad072f6d0e79123ae25bf0c27e2041.png	img	png	1.38 kB	653 B
200	GET	plugins.qgis.org	9479ceb7630715dea19059dd7cd217ae.png	img	png	1.55 kB	821 B
200	GET	plugins.qgis.org	17f535651d71786c626270595b7a692f.png	img	png	4.39 kB	3.66 kB
200	GET	plugins.qgis.org	2583b7fdc81e340686622511dee503ee.png	img	png	1.63 kB	897 B
200	GET	plugins.qgis.org	586c6653b8f8d5d065d1106770862ac7.png	img	png	1.49 kB	761 B
200	GET	plugins.qgis.org	53a7df01df192aad54710e9ff905676a.png	img	png	1.61 kB	875 B
200	GET	plugins.qgis.org	833cc2438c1ad91a70c51f061c7ece45.png	img	png	1.60 kB	872 B
200	GET	plugins.qgis.org	d778b537a2691b8a0f6a8479416ec0e2.png	img	png	1.50 kB	776 B
200	GET	plugins.qgis.org	8b59c069f861a748b7aba87070e47964.png	img	png	1.55 kB	809 B
200	GET	plugins.qgis.org	qms_logo_g4viNH5.svg	img	svg	3.58 kB	6.06 kB
200	GET	plugins.qgis.org	QuickOSM_avrEbp.svg	img	svg	1.67 kB	2.79 kB
200	GET	plugins.qgis.org	e8bd5ab51c7fda80856d07596b6f2f74.png	img	png	1.68 kB	950 B
200	GET	plugins.qgis.org	1a5e9e5a7e3fe7c7d4c9cb064e085b6b.png	img	png	1.61 kB	880 B
200	GET	plugins.qgis.org	qgis-icon-16x16.png	img	png	1.54 kB	802 B

Network traffic of plugins.qgis.org

Goal 7: Using Hetzner S3 for Media Storage

To manage media files such as QGIS installer packages, plugin packages, resource hub assets, and certificates, we'll transition to Hetzner S3 object storage.

We started with the QGIS installer packages by cloning the QGIS Downloads folder (<https://download.qgis.org/downloads/>) into an Object Storage (S3) on Hetzner Console. The next phase will involve implementing redirections to fetch all QGIS Downloads from this new storage bucket with a new page for archive listing on [QGIS.org](https://qgis.org) (See <https://github.com/qgis/QGIS-Website/pull/811>).

Regarding the Django-based website media files, we will probably start to migrate them to S3 after achieving the infrastructure migration.

qgis-download
nbg1.your-objectstorage.com
476.89 GB (2335 Files)
0 TB

Overview
Files
Delete

FILES
Upload files

NAME	SIZE	LAST UPDATED
android	-	-
data	-	-
macOS	-	-
macos	-	-
QGIS-1.4.0-1-No-GrassSetup.exe	28.96 MB	13 days ago
QGIS-OSGeo4W-3.40.0-1.msi	1.24 GB	12 days ago
QGIS-OSGeo4W-3.40.0-1.sha256sum	92 B	13 days ago
QGIS-OSGeo4W-3.40.1-1.msi	1.23 GB	12 days ago
QGIS-OSGeo4W-3.40.1-1.sha256sum	92 B	13 days ago
QGIS-OSGeo4W-3.40.10-1.msi	1.26 GB	11 days ago
QGIS-OSGeo4W-3.40.10-1.sha256sum	93 B	13 days ago
QGIS-OSGeo4W-3.40.11-1.msi	1.26 GB	13 days ago
QGIS-OSGeo4W-3.40.11-1.sha256sum	93 B	13 days ago
QGIS-OSGeo4W-3.40.12-1.msi	1.27 GB	11 days ago
QGIS-OSGeo4W-3.40.12-1.sha256sum	93 B	13 days ago

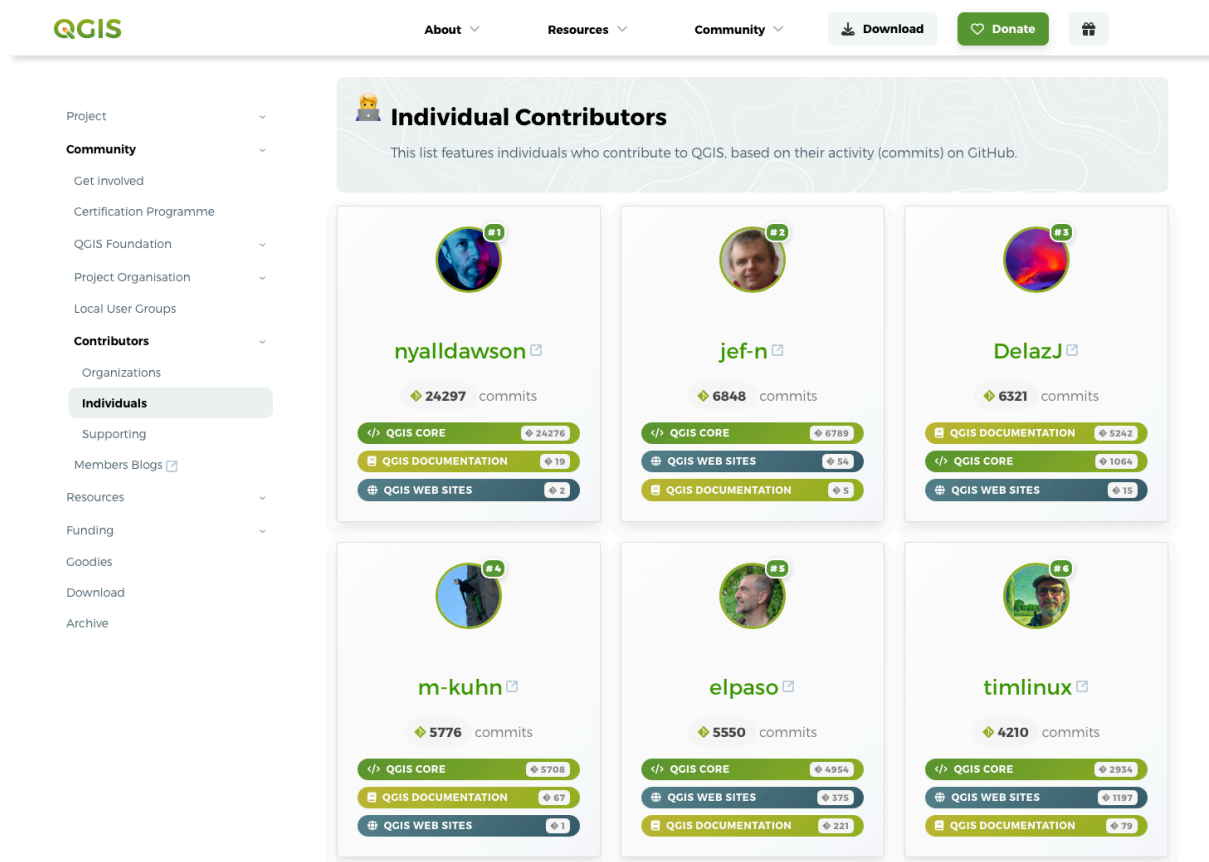
QGIS Downloads on Hetzner S3

Goal 8: Managing Repository Issues

We made steady progress in reducing open issues and ensuring responsiveness to community-reported feature requests and bugs across repositories.

An example of request from the community would be the new contributors page on the QGIS Website at <https://qgis.org/community/contributors/>. This feature was requested by Tim Sutton in

order to recognize the amazing people and organizations that make QGIS possible.



Individual Contributors Page

Below is a table summarizing the number of active issues and pull requests during 2025.

Repository	Total Issues	Open	Closed	Total PRs	Merged	Open
qgis/QGIS-Website	135	25	110	156	148	8
qgis/QGIS-Feed-Website	32	7	25	22	21	1
qgis/QGIS-Plugins-Website	93	22	71	66	64	2
qgis/QGIS-Hub-Website	62	17	45	45	44	1
qgis/QGIS-Planet-Website	10	2	8	25	25	0
qgis/QGIS-Certification-Website	36	4	32	41	40	1
qgis/QGIS-Changelog-Website	16	1	15	27	27	0
qgis/QGIS-Members-Website	14	3	11	26	24	2
qgis/QGIS-UC-Website	11	0	11	18	17	1
qgis/QGIS-Plugins-Website	93	22	71	66	64	2
TOTAL	502	103	399	492	474	18

Looking Ahead

2025 was a year of strong progress on each even if we didn't achieve all goals. For 2026, we will mainly focus on finalizing all tasks in the following goals:

- Goal 1: Harmonize all servers OS and Decommissioning Old Infrastructure
- Goal 4: Unified Logins and PassKeys

- Goal 5: Improving Server Performance
- Goal 7: Using Hetzner S3 for Media Storage

There will also be some new improvements related to the Plugins, feed and other websites.