



Open
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Consortium



OSGeo



Joint Code Sprint 2024

February 26th to 28th, 2024

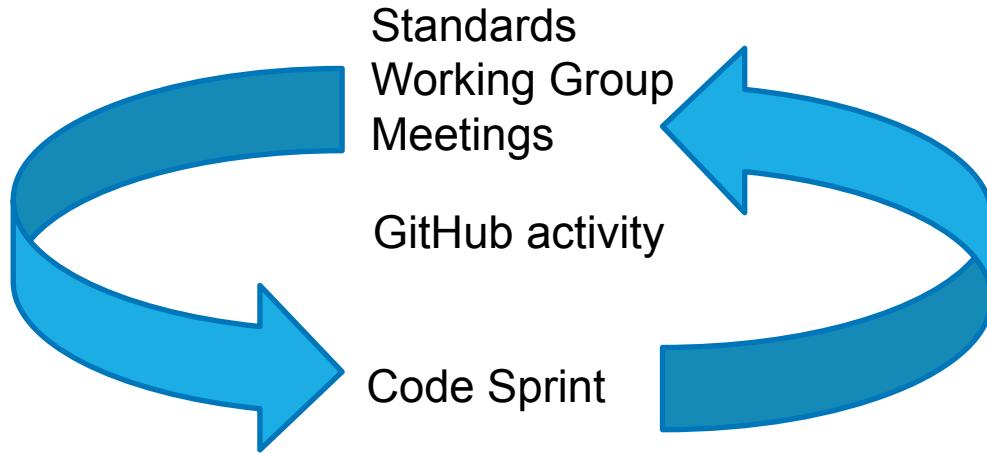
Pre-event Webinar

Joana Simoes (OGC), Martin Desruisseaux (ASF), Angelos Tzotsos (OSGeo), Tom Kralidis (OSGeo) and Gobe Hobona (OGC)

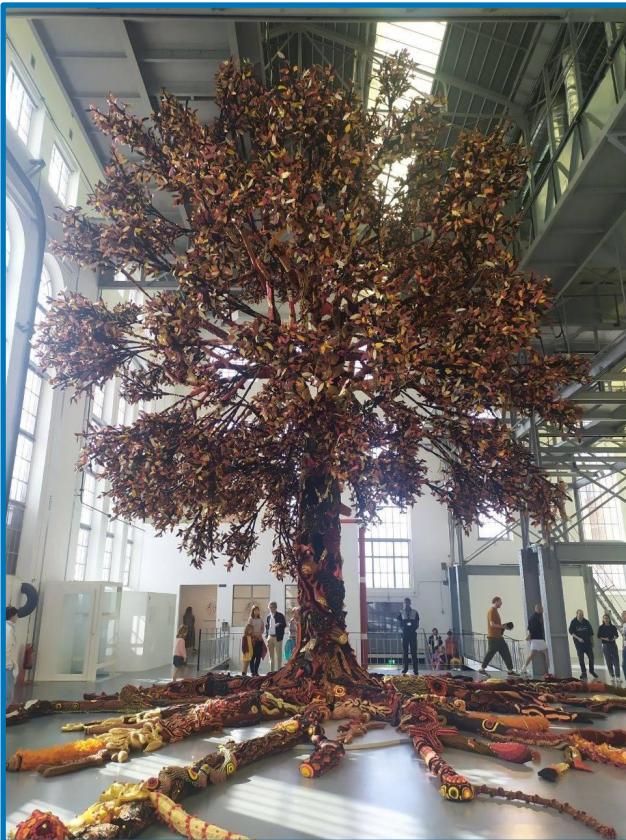
Webinar Agenda

- ✓ Welcome Remarks
- ✓ Overview of participating OGC standards working groups
- ✓ Overview of participating OSGeo projects
- ✓ Overview of participating Apache projects
- ✓ Questions & Answers

Why doing Code Sprints?



OGC Code Sprints Objectives



- Support the development of the standards.
- Support the development of implementations of the standards.
- Create awareness about the standards.

4th Joint Code Sprint



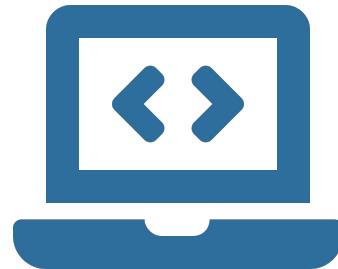
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What happens during the code sprint?



Discussions



Independent Work



Mentor Stream

Tutorials 🎓 – Onboarding Day



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OSGeo



Joint Code Sprint 2024

February 26th, 2024



Mentor Stream Onboarding

Casa do Cordovil/ @Mentor Room: 10:10 - 10:30 UTC

Day 1 - February 26th

2024-02-26		Day #1: Kick-Off	
	09:00 - 10:00	Welcome session	V:  #Main Stage
	10:00 - 12:30	Practical Work	V:  #Breakout Room
	10:00 - 12:30	Practical Work	V:  #OSGeo Room
	12:30 - 13:30	Lunch	
	13:30 - 17:00	Practical Work	V:  #Breakout Room
	13:30 - 17:00	Practical Work	V:  #OSGeo Room
	17:00 - 18:00	Early dinner	
	18:00 - 20:00	Practical work	V:  #Breakout Room
	18:00 - 20:00	Practical Work	V:  #OSGeo Room
	20:00 - 21:00	Daily Brief Back	V:  #Main Stage

Day 2 - February 27th

2024-02-27		Day #2	
	09:00 - 10:00	Practical work	V:👤 #Breakout Room
	09:00 - 10:00	Practical Work	V:👤 #OSGeo Room
	10:00 - 10:30	Stand-up	V:💻 #Main Stage
	10:30 - 12:30	Practical work	V:👤 #Breakout Room
	10:30 - 12:30	Practical Work	V:👤 #OSGeo Room
	12:30 - 13:30	Lunch	🍽️
	13:30 - 17:00	Practical Work	V:👤 #Breakout Room
	13:30 - 17:00	Practical Work	V:👤 #OSGeo Room
	17:00 - 18:00	Early dinner	🍽️
	18:00 - 20:00	Practical work	V:👤 #Breakout Room
	18:00 - 20:00	Practical Work	V:👤 #OSGeo Room
	20:00 - 21:00	Daily Brief Back	V:💻 #Main Stage

Day 3 - February 28th

2024-02-28		Day #3: Final Day	
	09:00 - 10:00	Practical work	V:  #Breakout Room
	09:00 - 10:00	Practical Work	V:  #OSGeo Room
	10:00 - 10:30	Stand-up	V:  #Main Stage
	10:30 - 13:00	Practical work	V:  #Breakout Room
	10:30 - 13:00	Practical Work	V:  #OSGeo Room
	13:00 - 14:00	Lunch	
	14:00 - 15:00	Practical work	V:  #Breakout Room
	14:00 - 15:00	Practical Work	V:  #OSGeo Room
	15:00 - 17:00	Demos & Wrap-up	V:  GotoMeet

Feel free to add more items to the schedule

2022-07-14		Day #3: Final Day	
	05:00 - 07:00 EDT/ 11:00 - 13:00 CEST	Practical work	V:👥 #Breakout Room
	07:00 - 08:00 EDT/ 13:00 - 14:00 CEST	Stand-up & demos	V:🏛️ #Main Stage
	08:00 - 10:30 EDT/ 14:00 - 16:30 CEST	Practical work	V:👥 #Breakout Room
	10:30 - 11:00 EDT/ 16:30 - 17:00 CEST	Issues & concerns	V:🏛️ #Main Stage
	11:00 - 13:30 EDT/ 17:00 - 19:30 CEST	Practical work	V:👥 #Breakout Room
	12:00 - 13:00 EDT/ 18:00 - 19:00 CEST	Working group meeting	V:👥 #Breakout Room
	13:30 - 14:30 EDT/ 19:30 - 20:30 CEST	Demos	V:📣 GotoMeet
	14:30 - 15:30 EDT/ 20:30 - 21:30 CEST	Wrap-up	V:📣 GotoMeet

👉 Example from
a previous
schedule

Overviews and Sprint Goals

What is OGC?

- ✓ **A Global consortium** of businesses, government agencies, research organizations, and universities driven to make geospatial (location) information and services FAIR - Findable, Accessible, Interoperable, and Reusable.
- ✓ **A hub for thought leadership and innovation** for all things related to location
- ✓ **A neutral and trusted forum** for tackling interoperability issues within and across communities
- ✓ **A consensus-based open standards organization** for location information

Which OGC Standards Working Groups do you regularly contribute to?

OGC API - Processes	GeoAPI	OGC API - Common	OGC API - Environmental Data Retrieval	Styles & Symbology
OGC API - Features	OGC API - Tiles	OGC API - Records	GeoDCAT	GeoDataCube
OGC API - Routes	Analysis Ready Data	Training Data ML-AI	OGC API - Styles	Spatial Data on the Web
OGC API - Tiles	GeoParquet	OGC API - Maps	JSON-FG	CITE
GeoSPARQL	CRS	OGC API - Moving Features	PubSub	IndoorGML

What is an OGC Standard?

A document, established by consensus and approved by the OGC Membership, that provides rules and guidelines, aimed at the optimum degree of interoperability in a given context.



Photo taken March 2018

Sprint Goals for OGC SWGs

- ✓ Develop prototype implementations of OGC Standards
 - ✓ including implementations of draft OGC API Standards
- ✓ Test the prototype implementations
- ✓ Conduct Technology Integration Experiments (TIEs)
- ✓ Provide feedback to the Editor about what worked and what did not
- ✓ Provide feedback about the specification document

What is OSGeo?

- OSGeo is a not-for-profit software foundation
 - ✓ Provides projects financial, organizational and legal support
- Outreach and advocacy
 - ✓ Promoting global adoption of open source geospatial technology
 - ✓ Partnerships on open approach to standards, data and education.
- OSGeo is volunteer driven
 - ✓ Community / participatory
 - ✓ Passionate membership of individuals from around the world.



osgeo.org

Which OSGeo projects do you regularly contribute to?

QGIS

GeoNetwork

GeoNode

GeoServer

MapServer

GeoHealthCheck

deegree

GRASS GIS

PostGIS

OSGeoLive

OWSLib

GDAL

pgRouting

MobilityDB

Proj

pycsw

pygeoapi

MapBender

MapProxy

ZOO-Project

OpenLayers

Open Source Geospatial Foundation

- Working with our partners:
 - **Open Source:** a collaborative approach to software development.
 - **Open Data:** freely available information to use as you wish
 - **Open Standards:** avoid lock-in with interoperable software
 - **Open Education:** removing the barriers to learning and teaching
 - **Open Science:** share data and software for responsible research

OSGeo Status Overview

Open, free membership:

548 2024-02-19 elected **charter members** (+51)

developers, activists, advocates, distribution by year, region and country

2061 2024-02-19 **members on website** (+357)

36633 2024-02-01 OSGeo mailman server unique
subscribers

Source: [M Neteler](#)'s monthly [cronjob](#)



OSGeo sponsors



OSGeo Projects

Projects: osgeo.org/projects

- OSGeo Projects (**23**)
 - Official projects having passed graduation through incubation committee
- Community Projects (**29**)
 - the barrier for community projects is lower than for official ones, but they also need confirmation by the OSGeo Incubation Committee

OSGeo Projects

Content Management Systems

GeoNode

Desktop Applications

Marble
gvSIG Desktop
QGIS Desktop
GRASS GIS

Geospatial Libraries

PROJ
GeoTools
Orfeo ToolBox
GDAL/OGR
GEOS

Metadata Catalogs

GeoNetwork
pycsw

Other

OSGeoLive

Spatial Databases

PostGIS

Web Mapping

pygeoapi
MapServer
deegree
ZOO-Project
OpenLayers
GeoMoose
Mapbender
PyWPS
GeoServer

Community projects

Desktop Applications

OSGeo4W
Opticks

Geospatial Libraries

TorchGeo
mappyfile
ETF
PROJ-JNI
GeoStyler
Open Data Cube
Mesh Data Abstraction Library (MDAL)
actinia
Pronto Raster
OWSLib
FDO
OSSIM
pgRouting

Metadata Catalogs

Other

GeoServer Client PHP
Loader
GeoHealthCheck
Portable GIS
TEAM Engine

Spatial Databases

Giswater
MobilityDB
rasdaman

Web Mapping

GeoExt
GC2/Vidi
GeoWebCache
MapGuide Open Source
mapfish
istSOS

Sprint Goals for OSGeo Projects

- ✓ Test interoperability with other projects
- ✓ Release new software versions
- ✓ Fix open issues
- ✓ Develop new features
- ✓ Improve documentation, translations
- ✓ Develop prototype implementations of OGC standards

FOSS4G 2024 Europe

Tartu, Estonia

1-7 July 2024

Main Conference

Hands on Workshops

Join us!



2024.europe.foss4g.org

FOSS4G 2024 Global Conference

Belém Brazil

1-8 December 2024



Main Conference

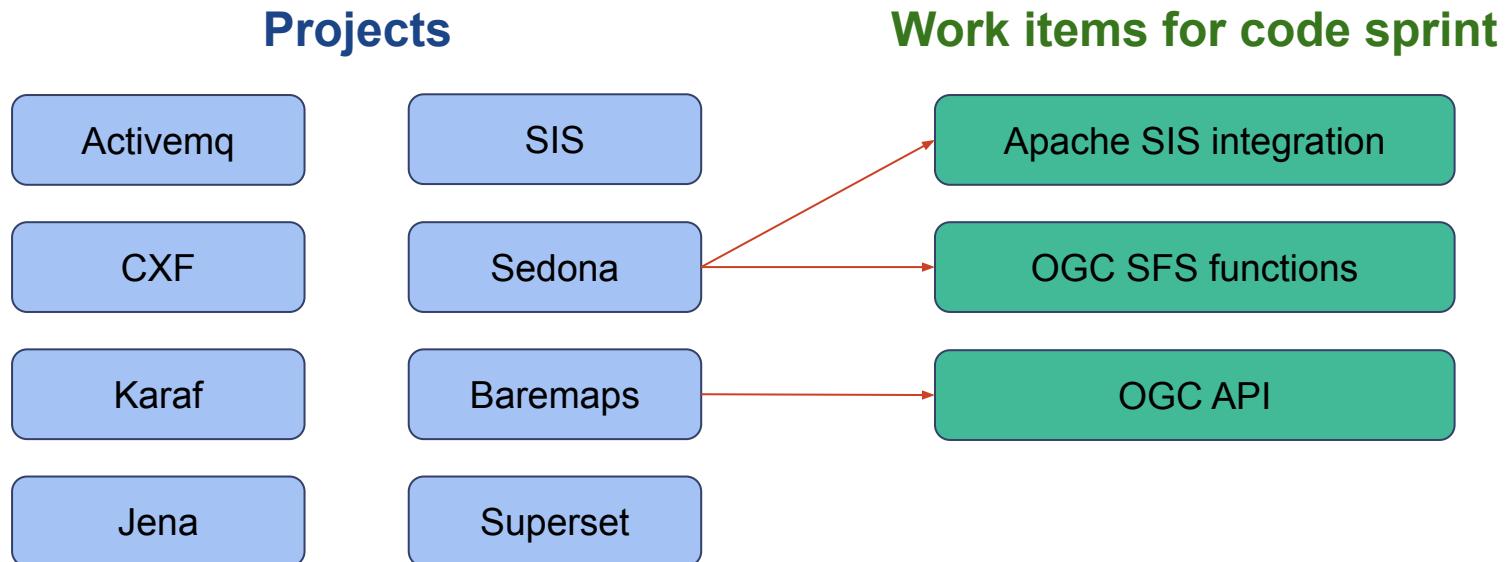
www.linkedin.com/company/foss4g2024

Hands on Workshops

Join us!



Which Apache projects do you regularly contribute to?





Established 1999

Mission: to provide software for the public good

First Project

APACHE
HTTP SERVER



World's Most Popular Server

2021: 26th Anniversary
[22 years at the ASF]

Today



Develops, Stewards, Incubates

350+ Projects and initiatives
39 Incubating Podlings
<https://projects.apache.org/>

Global Impact: Apache Software

- ✓ **powering more than half the Internet**
- ✓ **managing zettabytes of data**
- ✓ **executing teraflops of operations**
- ✓ **storing billions of objects** in virtually every industry
- ✓ integral to **nearly every end-user computing device**
- ✓ **35M+ page views per week** across apache.org
- ✓ **9M+ source code downloads** annually from Apache mirrors
- ✓ Apache OpenOffice provides \$25M+ in value to users each day
- ✓ Web requests **from every Internet-connected country** on the planet
- ✓ **Valued conservatively at \$22B+** available to all at 100% no cost!

Level Playing Field

- ✓ Vendor-neutral, collaborative environment
- ✓ Projects are governed independently of commercial influence
- ✓ We do not take sides, or endorse or support any particular vendor
- ✓ We do not discourage the development of "competing" products
- ✓ Third parties can pursue for-profit and not-for-profit business models



Apache Community

- ✓ All-Volunteer
- ✓ 21 original founding Members
- ✓ 815+ individual ASF Members
- ✓ 8,500+ Apache Committers
- ✓ Guardians of 227,000,000+ Lines of Code



Apache Project Categories

Artificial Intelligence

Annotation

APIs

Application Performance

Big Data

Blockchain

Build Management

Clinical Data Management

Cloud Computing

Content Delivery

Data Management

Databases

Deep Learning

Email

ERP

Fintech

Graph Computing

Graphics

Geospatial

Hardware Optimization

HTTP

Identity Management

Integration

IoT

Java/JavaEE

Libraries

Mail

Machine Learning

Messaging

Mobile

Natural Language Processing

Network-Client

Network-Server

Observability

Operating Systems

OSGi

Productivity Suite

Programming Languages

Search/Search Learning

Security Frameworks

Service Mesh

Scheduling

SQL

Testing

Web Conferencing

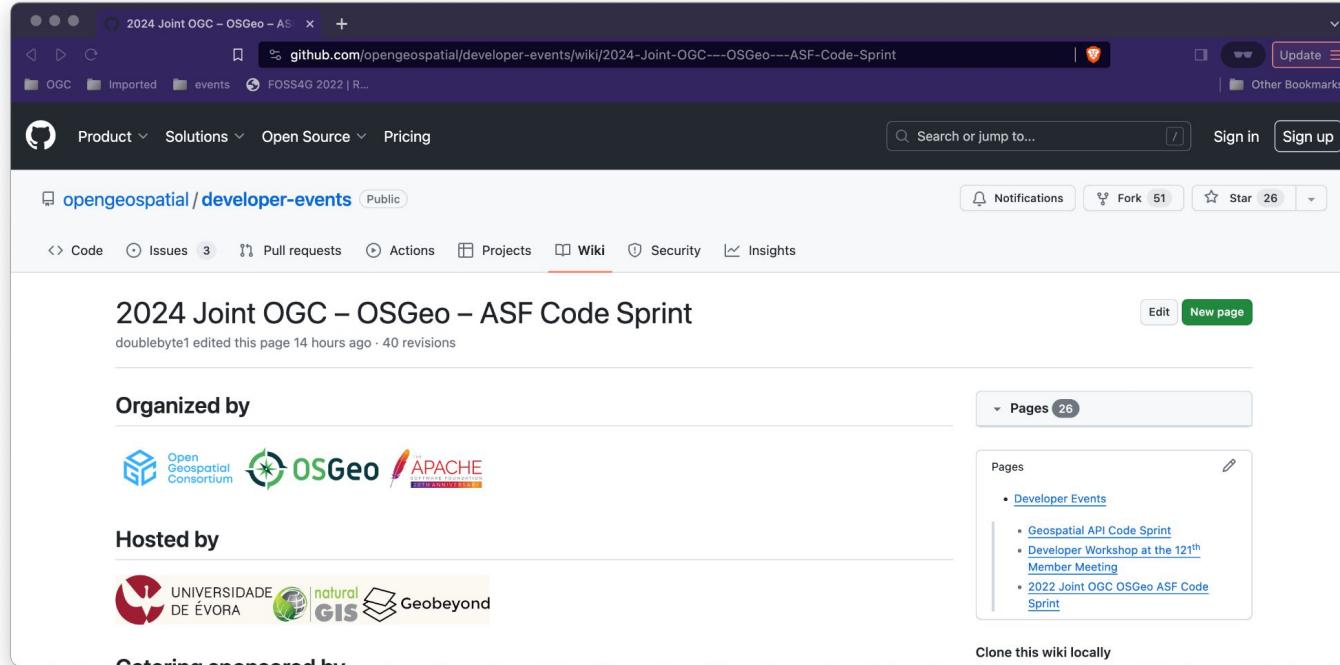
Web Frameworks

XML ...

Sprint Goals for Apache Projects

- ✓ Improve support of OGC standards
 - OGC SFS in Sedona
 - OGC API in Baremaps
- ✓ Improve visualisation capabilities (map, ...)
- ✓ Improve documentation (web site, ...)
- ✓ Improve project-independant test coverage (GIGS + GeoAPI, ...)
- ✓ Improve interoperability with other libraries (GeoAPI + Panama, ...)
- ✓ Experiment new technologies (vectorization, Panama, ...)
- ✓ Integration (Sedona + SIS, ...)

Sprint Wiki on GitHub



A screenshot of a web browser displaying a GitHub wiki page for the "2024 Joint OGC – OSGeo – ASF Code Sprint". The page is public and has 26 pages. It shows sections for "Organized by" (Open Geospatial Consortium, OSGeo, Apache Software Foundation), "Hosted by" (Universidade de Évora, natural GIS, Geobeyond), and "Catering sponsored by". A sidebar on the right lists related pages: Developer Events, Geospatial API Code Sprint, Developer Workshop at the 121th Member Meeting, and 2022 Joint OGC OSGeo ASF Code Sprint.

2024 Joint OGC – OSGeo – ASF Code Sprint

doublebyte1 edited this page 14 hours ago · 40 revisions

Organized by

Hosted by

Catering sponsored by

Pages 26

- Developer Events
- Geospatial API Code Sprint
- Developer Workshop at the 121th Member Meeting
- 2022 Joint OGC OSGeo ASF Code Sprint

Clone this wiki locally



Hashtag on social media:
#CODESPRINT23

<https://github.com/opengeospatial/developer-events/wiki/2024-Joint-OGC-%E2%80%93-OSGeo-%E2%80%93-ASF-Code-Sprint>

Project Pitches



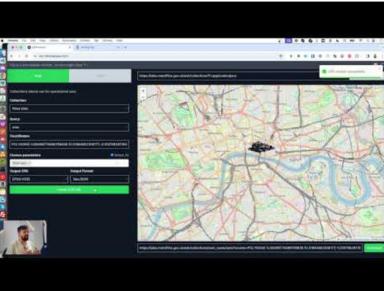
2024 Joint OGC - OSGeo - A...

github.com/opengeospatial/developer-events/wiki/2024-Joint-OGC---OSGeo---ASF-Code-Sprint#project-and-working-group-p... | 🔍 | 🌐 | ⚙️ | All Bookmarks

OGC Imported events FOSS4G 2022 | R...



OGC API - EDR viewer



Sample pitch on [youtube](#)

Mentor streams

<https://github.com/opengeospatial/developer-events/wiki/2024-Joint-OGC-%E2%80%93-OSGeo-%E2%80%93-ASF-Code-Sprint#project-and-working-group-pitches>

#127

What is everybody going to be working on, at the 2024 Joint OGC - ASF - OSGeo Sprint? #127

doublebyte1 opened this issue on Dec 20, 2023 · 4 comments

doublebyte1 commented on Dec 20, 2023 · edited

Post a comment letting us know what you are going to be working on.

doublebyte1 changed the title What is everybody going to be working on, at the 2024 Joint OGC - ASF - OSGeo Sprint? What is everybody going to be working on, at the 2024 Joint OGC - ASF - OSGeo Sprint? on Dec 20, 2023

fgravin commented 2 weeks ago

I am planning to work mostly on

- OGC API Records Facet proposal, to make it concrete and accepted
- GeoNetwork OsGeo project to investigate using OGC API Records back from the geonetwork-ui datahub project

gberaudo commented 2 weeks ago

Provided my registration is accepted, I am planning to work on:

- OL-Cesium examples improvements;
- OpenLayers flat style improvements.

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
No branches or pull requests

4 participants

<https://github.com/opengeospatial/developer-events/issues/127>

Casa do Cordovil, Évora

- ✓ World Heritage City
- ✓ Short train ride from Lisbon (Portugal)



CENTRO
TECNOLÓGICO
GIL EANES

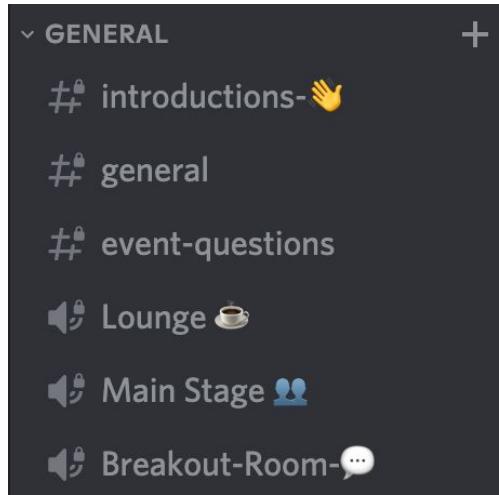
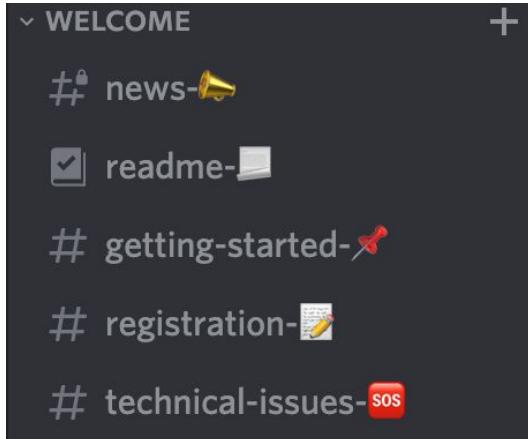
Rua Dom Augusto Eduardo Nunes nº7

Staircase on the right, and then move to the larger room.

OGC Events Discord Server



Meta channels:
check-in and
general info



Main track: Kick-off,
standups and
demos



Mentor stream:
tutorials, 1:1
mentoring

Questions and Answers



Thank you

See you, virtually or in-person, on Monday 26th February 2024 at 9am UTC



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