



# Community updates

Major projects and initiatives from the past 12 months.

# Modern software engineering - for science

## Empowering scientists with modern software engineering

Nextflow enables scalable and reproducible scientific workflows using containers. It allows the adaptation of pipelines written in the most common scripting languages.

Its fluent syntax simplifies the implementation and deployment of complex parallel and reactive workflows on any cloud or cluster.



# Modern software engineering - for science

## A community collaborating on pipeline development

Pipelines follow best-practices to ensure maximum portability and reproducibility. The large community makes the pipelines exceptionally well tested and easy to run.

Extensive documentation covering installation, usage and description of output files ensures that you won't be left in the dark.

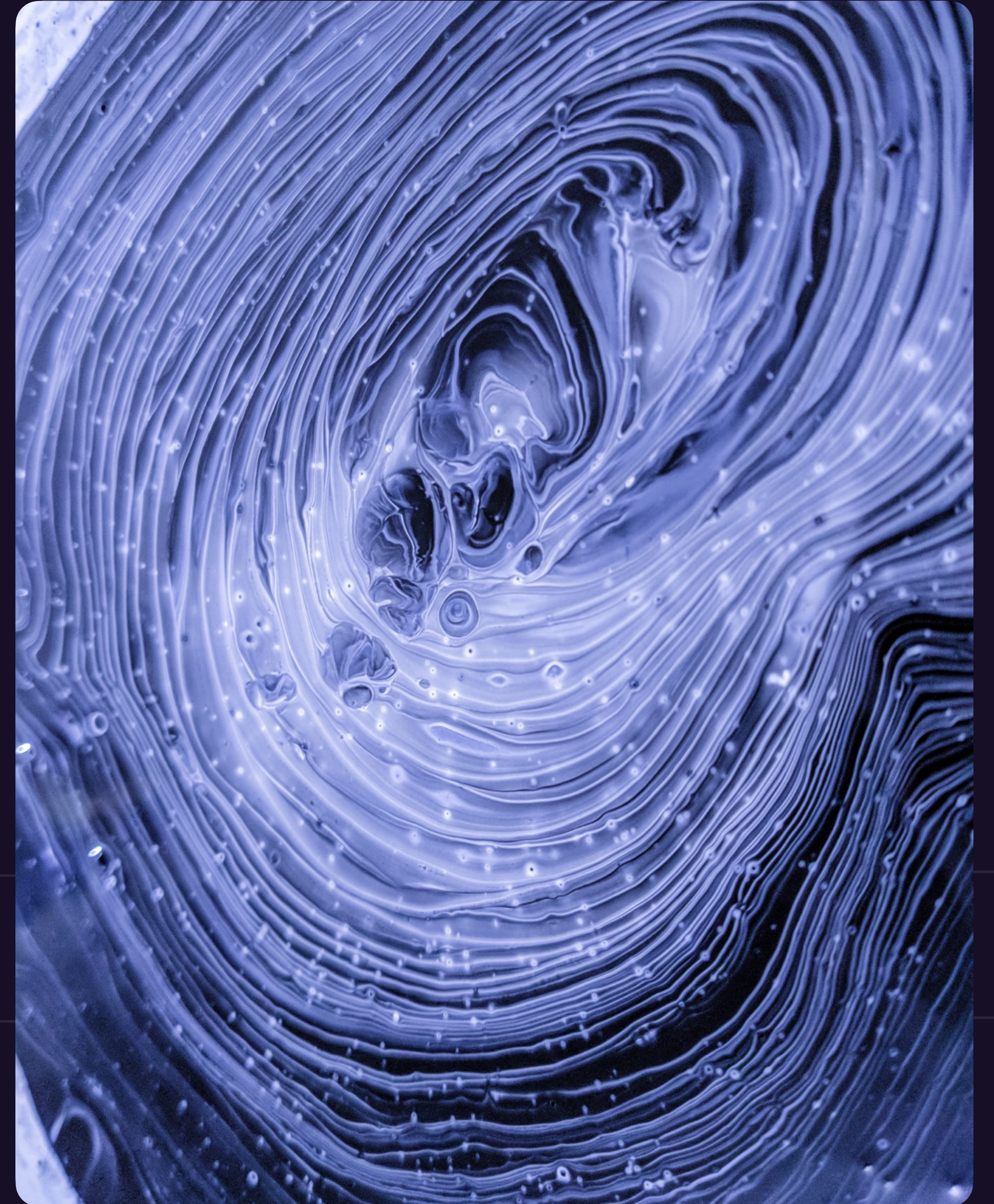
 **nextflow**  
workflow management

**nf-core** 



# Community growth

Where we are in numbers



 **708**

Developers committing to nf-core GitHub repositories

 708

X 8,668

People following for Nextflow + nf-core X (twitter) accounts

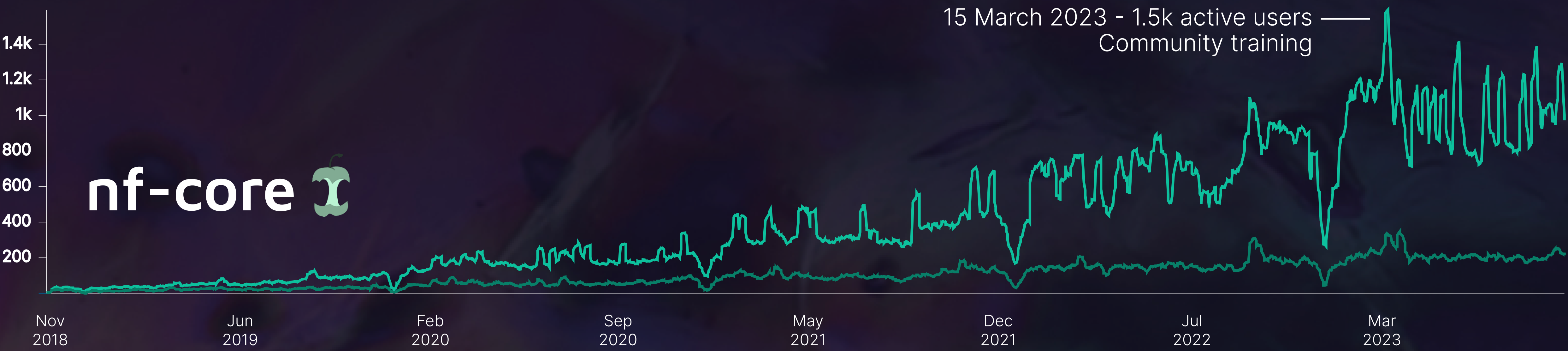
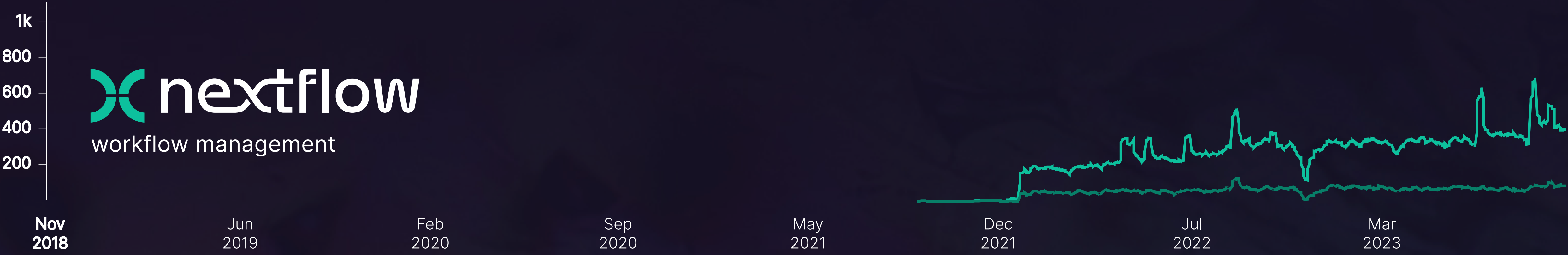
 708

 8,668

 907,280

Users on Nextflow + nf-core Slack Organisations

# Active Slack members



■ Weekly active members      ■ Members who posted



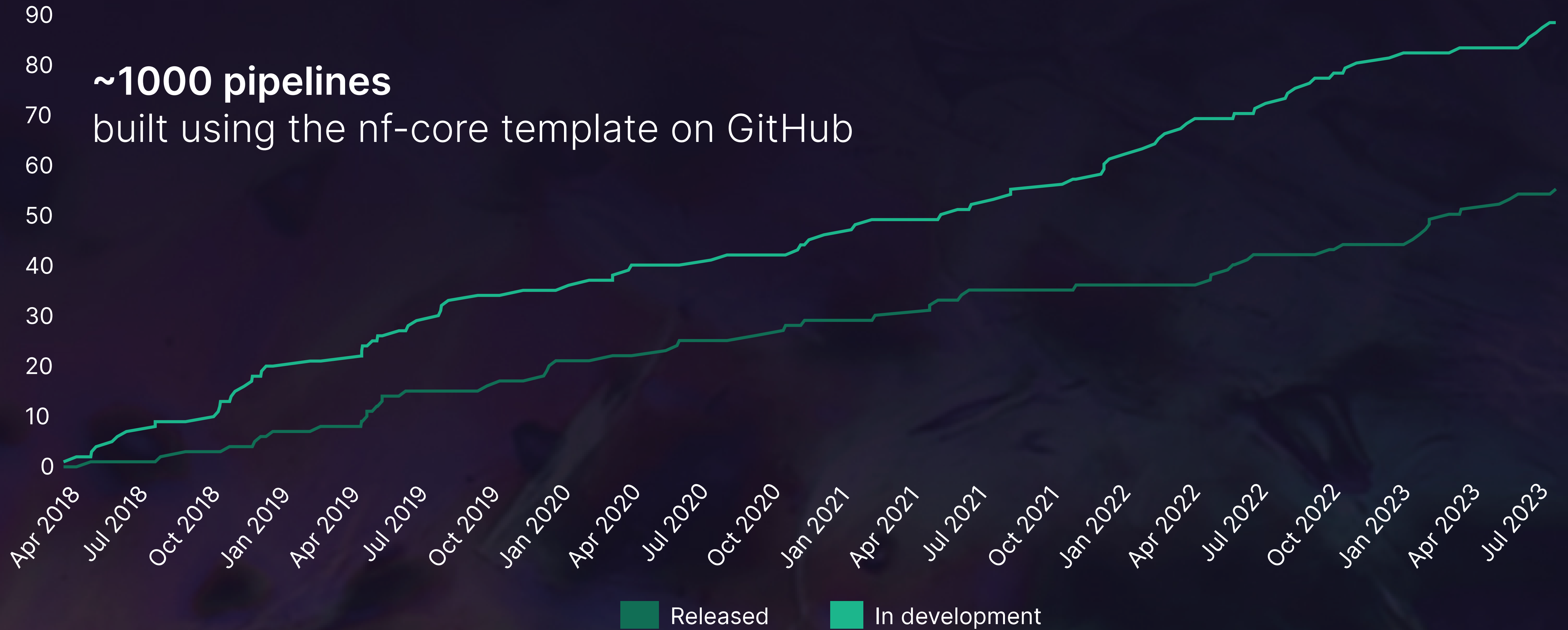
# Nextflow Docs - Unique IPs



# nf-core pipelines

**~1000 pipelines**

built using the nf-core template on GitHub



# nf-core modules + subworkflows

## Pipeline

Pipeline parameters

Resource requests

Tool arguments

Input channels

## Subworkflow

Channels

Pipeline logic

Module

Module

Module

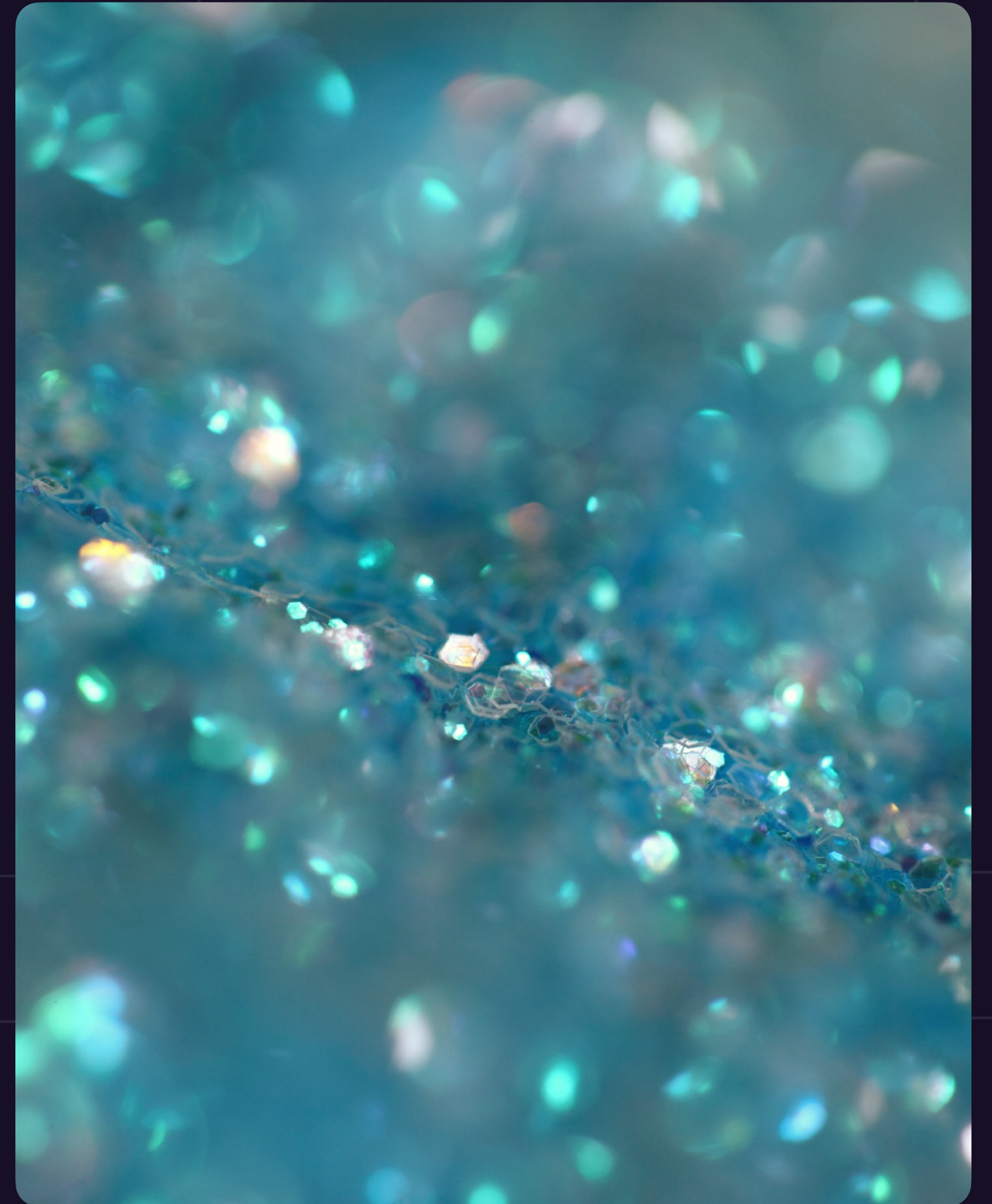
nf-core modules + subworkflows

**1,041**

Modules currently available as part of nf-core.

# Community projects

New infrastructure to support  
users and developers



# Better automated testing

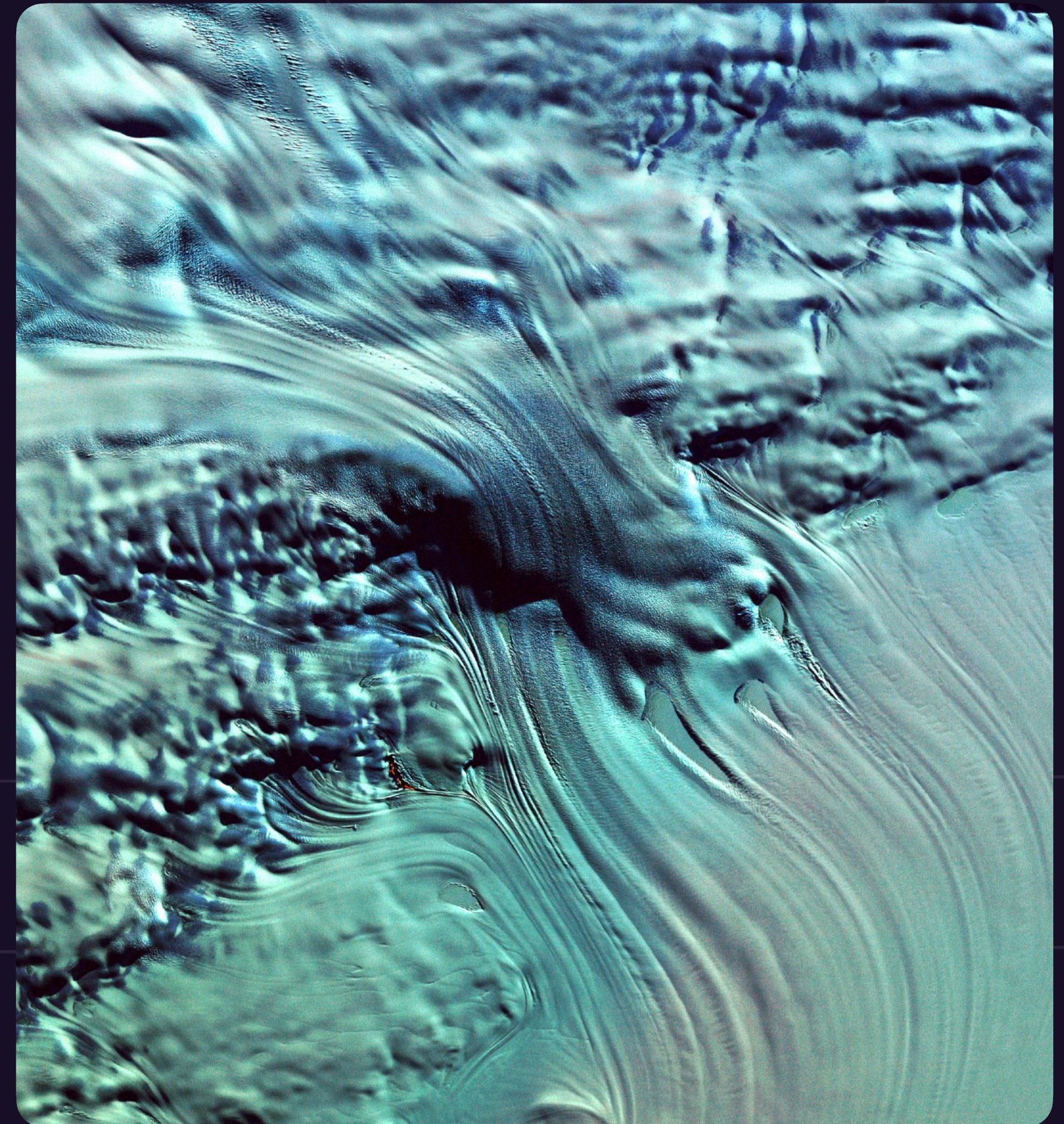


Lukas Forer  
Thurs Oct 19, 5:15 PM



## Ensuring code quality through CI

- Adopting 🚀 nf-test for all nf-core pipelines, modules and subworkflows
- Full-size release tests with AWS and Azure
- New AWS auto-scaling CI runners for GitHub pull-requests - now with GPU!



# Nextflow plugins

## nf-validation

Júlia Mir Pedrol  
Thurs Oct 19, 10:30 AM



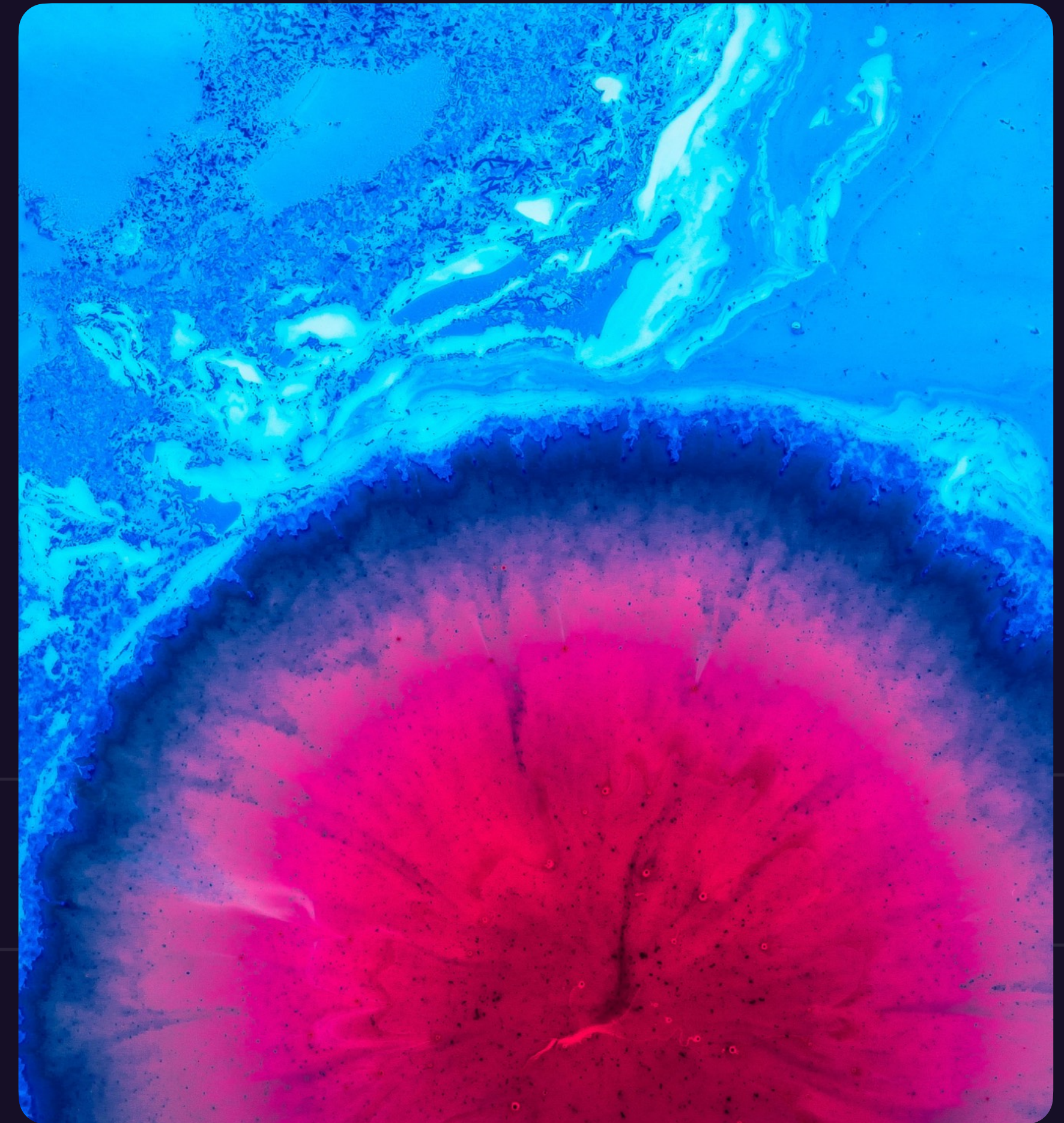
## nf-prov

Ben Sherman



## nf-co2footprint

Sabrina Krakau  
Thurs Oct 19, 12:45 PM



# Nextflow plugins

## nf-validation

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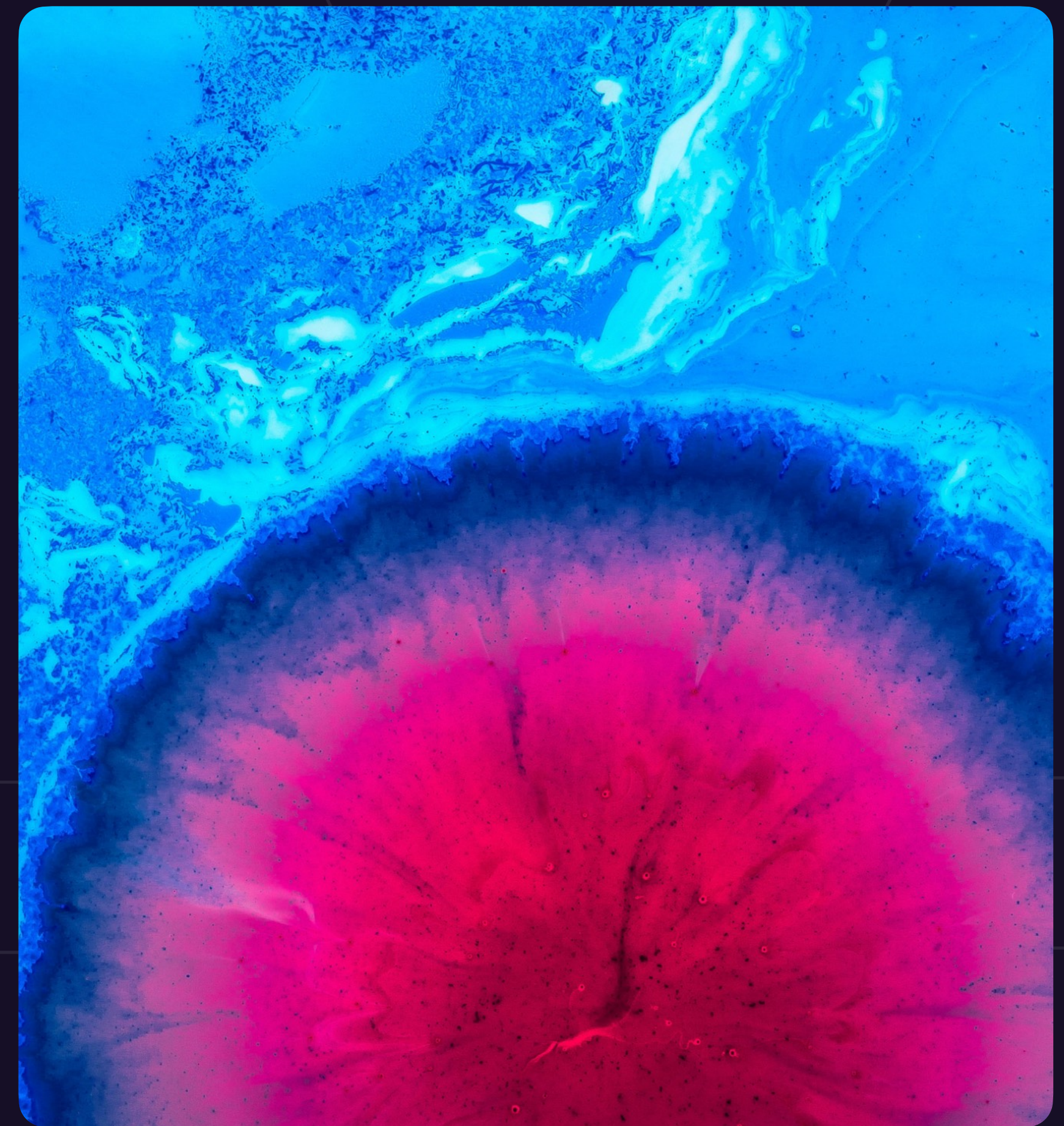
## nf-prov

Ben Sherman



## nf-co2footprint

Sabrina Krakau  
Thurs Oct 19, 12:45 PM





# New nf-core website

## Rebuilt from the ground up

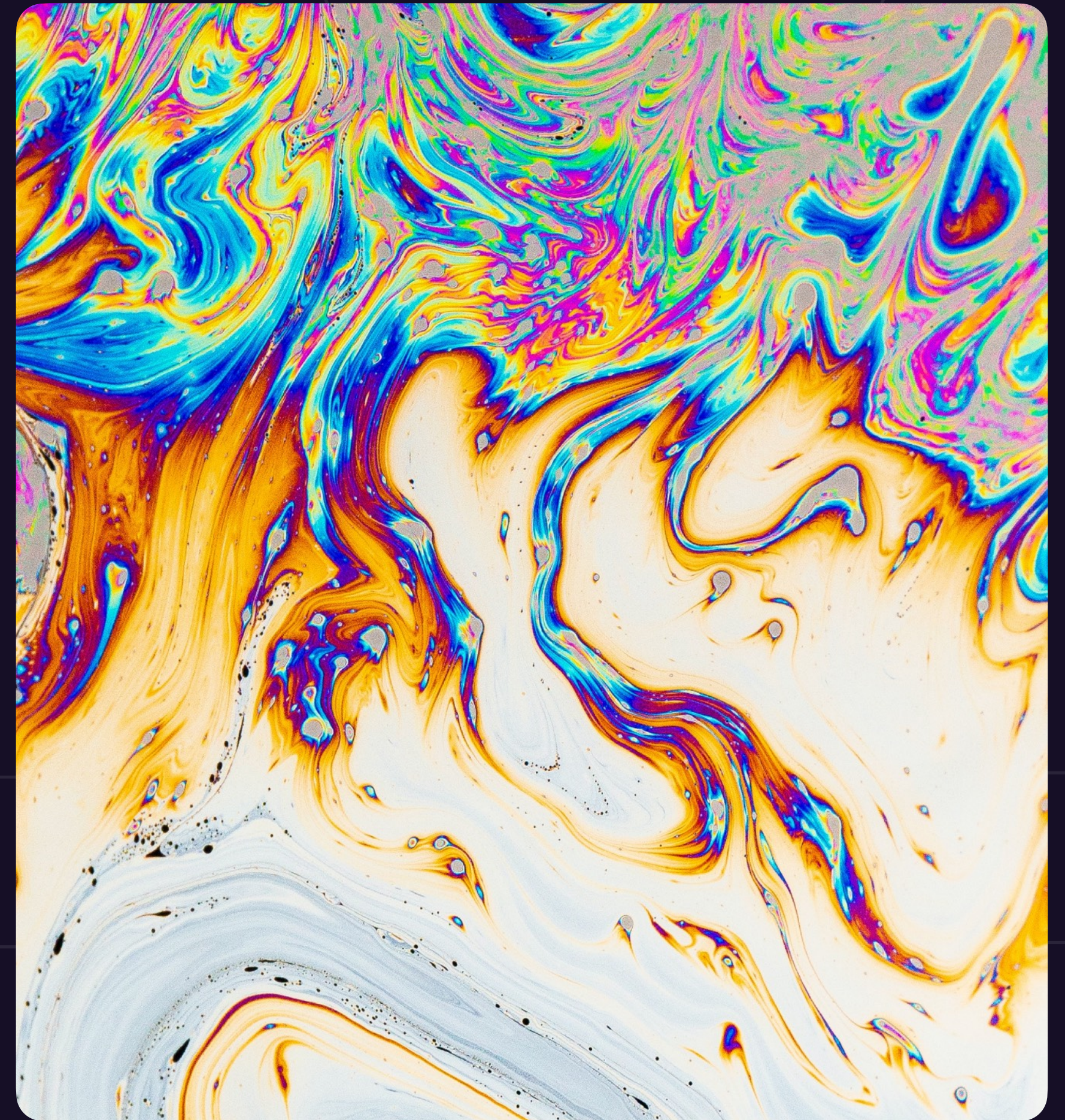
- Site-wide search!
- Deployment previews
- Support for MDX, markdown extensions
- Markdown front-matter schema
- New hosting



# nf-core tools

## Helper tools for users & developers

- Improved download capability
- More fine-grained control of pipeline creation from the nf-core template
- Rewritten launch and schema tooling
- User friendly terminal app, using Textual





nf-core create

This app will help you create a new nf-core pipeline. It uses the nf-core pipeline template, which is kept within the [nf-core/tools repository](#).

Using this tool is mandatory when making a pipeline that may be part of the nf-core community collection at some point. However, this tool can also be used to create pipelines that will never be part of nf-core. You can still benefit from the community best practices for your own workflow.

Let's go!

# Channels: The Nextflow Podcast

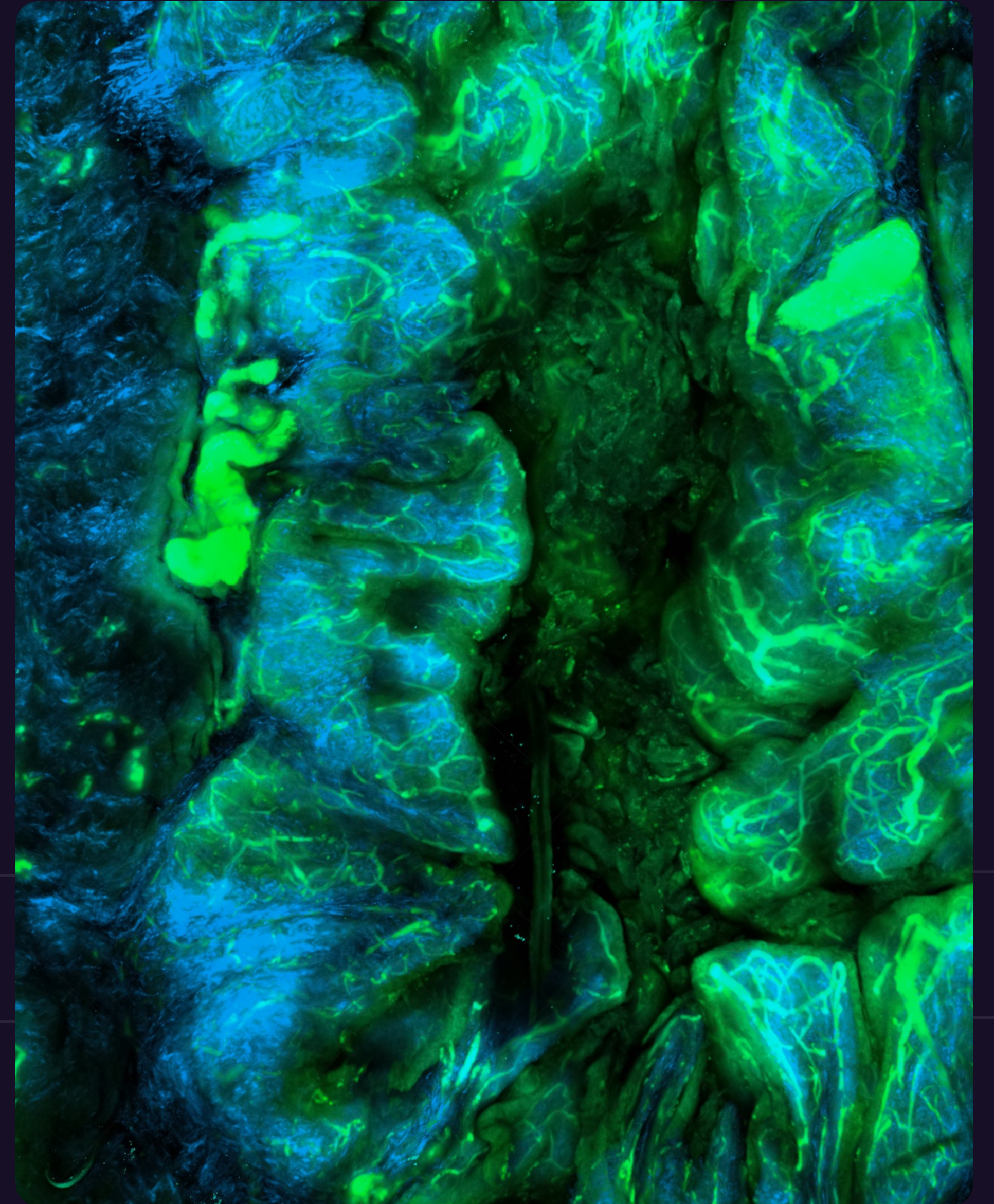
## New podcast for developers!

- New episodes every second Monday
- Technical deep dives with Nextflow developers
- Interviews with leaders in the field
- 24 episodes so far, each 30 mins - 1 hour
- Join us on Spotify, Apple Music, YouTube, Twitter (X)



# Community announcements

Projects for the community that  
are launching today!



# Nextflow Ambassadors

Announcing the launch of the Nextflow Ambassador Program  
– an initiative designed to foster **collaboration, knowledge sharing, and community growth**

# Nextflow Ambassadors

What you get

What you do

How to apply

Help to shape and grow the Nextflow and nf-core communities



Receive training and get access to our content library



Access a travel fund for conferences; get support for local events



Get recognition for your work, as well as exclusive swag!



# Nextflow Ambassadors

What you get

What you do

How to apply

Engage with the local, national, and international Nextflow community



Speak about Nextflow and nf-core at meetings and events



Running local events such as user groups, hackathons, and workshops



Writing or sharing tweets, blogs, articles, and technical docs





# Nextflow Ambassadors

What you get

What you do

How to apply

[nextflow.io/ambassadors](https://nextflow.io/ambassadors) >



We're looking for people who:

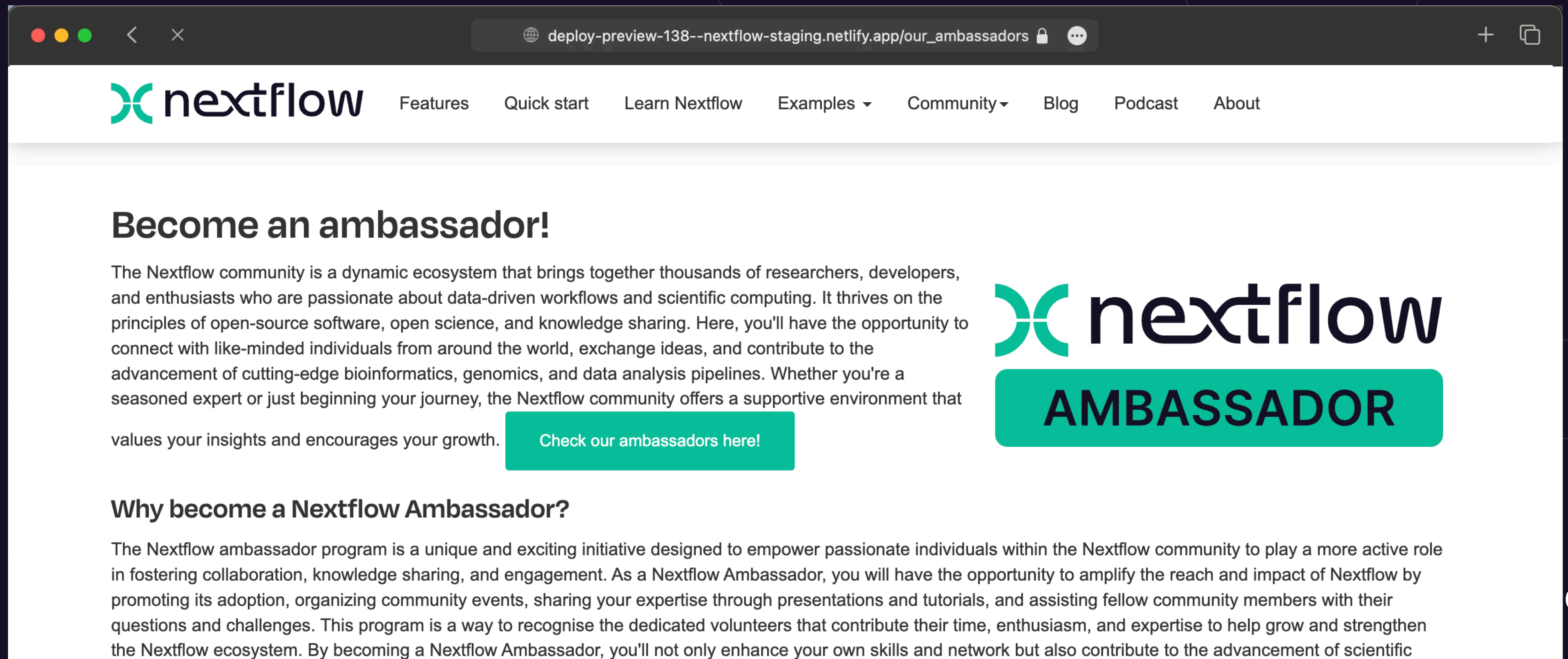
- Joined the Nextflow and nf-core community at least 6-months ago
- Share our information reliably and appropriately
- Have already participated in some of our events and/or initiatives
- Are willing to actively support the community as an ambassador for at least one year

# Nextflow Ambassadors

What you get

What you do

How to apply



The screenshot shows a web browser window with the URL `deploy-preview-138--nextflow-staging.netlify.app/our_ambassadors`. The page features the Nextflow logo and a navigation menu with links for Features, Quick start, Learn Nextflow, Examples, Community, Blog, Podcast, and About. The main heading is "Become an ambassador!". The text describes the Nextflow community as a dynamic ecosystem for researchers, developers, and enthusiasts. A green button labeled "Check our ambassadors here!" is positioned below the text. To the right, there is a large graphic with the Nextflow logo and the word "AMBASSADOR" in a green box.

**nextflow** Features Quick start Learn Nextflow Examples Community Blog Podcast About

## Become an ambassador!

The Nextflow community is a dynamic ecosystem that brings together thousands of researchers, developers, and enthusiasts who are passionate about data-driven workflows and scientific computing. It thrives on the principles of open-source software, open science, and knowledge sharing. Here, you'll have the opportunity to connect with like-minded individuals from around the world, exchange ideas, and contribute to the advancement of cutting-edge bioinformatics, genomics, and data analysis pipelines. Whether you're a seasoned expert or just beginning your journey, the Nextflow community offers a supportive environment that values your insights and encourages your growth.

[Check our ambassadors here!](#)

**nextflow**  
**AMBASSADOR**

### Why become a Nextflow Ambassador?

The Nextflow ambassador program is a unique and exciting initiative designed to empower passionate individuals within the Nextflow community to play a more active role in fostering collaboration, knowledge sharing, and engagement. As a Nextflow Ambassador, you will have the opportunity to amplify the reach and impact of Nextflow by promoting its adoption, organizing community events, sharing your expertise through presentations and tutorials, and assisting fellow community members with their questions and challenges. This program is a way to recognise the dedicated volunteers that contribute their time, enthusiasm, and expertise to help grow and strengthen the Nextflow ecosystem. By becoming a Nextflow Ambassador, you'll not only enhance your own skills and network but also contribute to the advancement of scientific

OW

# Nextflow Ambassadors




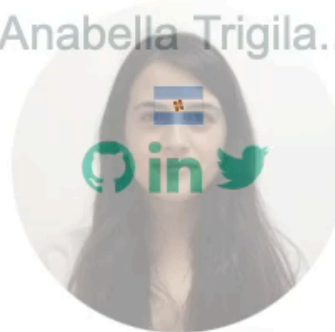




What you get

What you do

How to apply

nextflow Features Quick start Learn Nextflow Examples Community Blog Podcast About

## Nextflow Ambassadors

 Abhinav Sharma	 Adam Talbot	 Alex Peltzer	 Anabella Trigila
	 Bhargava Morampalli		

# Nextflow Ambassadors




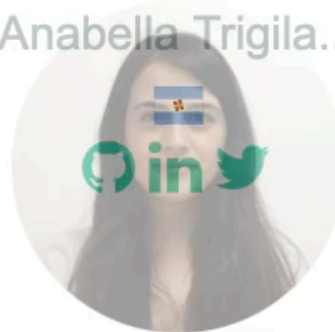




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nextflow Features Quick start Learn Nextflow Examples Community Blog Podcast About

## Nextflow Ambassadors

 Abhinav Sharma	 Adam Talbot	 Alex Peltzer	 Anabella Trigila
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# Nextflow Ambassadors


What you get

What you do

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[nextflow.io/ambassadors](https://nextflow.io/ambassadors) >

Read more in our blog post on [nextflow.io](https://nextflow.io)!



**Nextflow  
ambassador  
handbook**

September 2023

# Community Forum

A new home for the community across all Seqera tools, built with Discourse – brings **public access**, **scales with the community** and **fosters better structured discussion**

# Community Forum



community.seqera.io



Sign Up

Log In



## Welcome to the community!

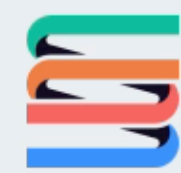
We're happy to have you here. If you need help, please search before you post.



- all categories ▾
- all tags ▾
- Categories
- Latest
- Top

Category

Topics

Latest

	<b>Seqera Platform (Tower)</b>	0
	Collaborative data analysis at scale, on-premises or in any cloud.	

	 Welcome to Seqera Community!	1
	Random	7 Aug

# Community Forum

 nextflow

Introducing  
[community.seqera.io](https://community.seqera.io)

[Learn more](#)

Read more in our blog post on [nextflow.io](https://nextflow.io)!

[community.seqera.io](https://community.seqera.io) >

 nextflow



# Geraldine Van de Auwera

## New Seqera Lead Developer Advocate!

- Formerly worked at the Broad Institute with GATK, WDL, Terraform
- Wrote the O'Reilly book "Genomics in the Cloud"
- Lives in Boston, USA
- Phil Ewels will move to be the Seqera Product Manager for Open Source
  - Nextflow + MultiQC + Wave + Fusion\*



# Thank you



**Phil Ewels, PhD**

Product Manager for Open Source  
[phil.ewels@seqera.io](mailto:phil.ewels@seqera.io)

