

An aerial night photograph of a city harbor, likely Oslo, Norway. The city lights are reflected in the dark blue water. A large white sailing ship is docked on the right side. The text "Bioinformatics session" is overlaid in the center-left.

Bioinformatics session

A two day workshop for bioinformaticians and molecular biologists with focus on the TSO500 pipeline in InPreD

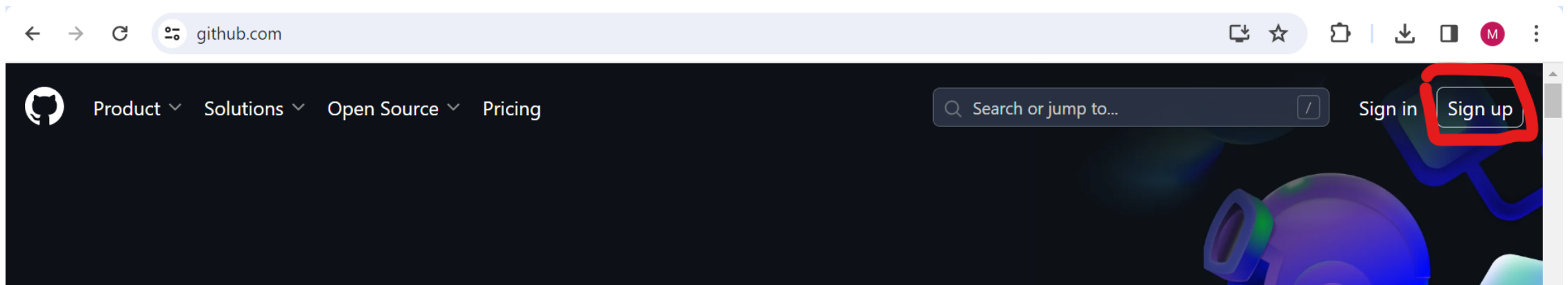
Overview

1. Setup
2. Development & Collaboration
3. Nextflow
4. tso500_nxf_workflow
5. Python

1. Setup

Create a GitHub account

- go to <https://github.com/> and click on `Sign up`



Create a GitHub account

- enter your email

Welcome to GitHub!

Let's begin the adventure

Enter your email*

→ coder@inpred.no

Continue

Create a GitHub account

- set a password

Welcome to GitHub!

Let's begin the adventure

Enter your email*

✓ coder@inpred.no

Create a password*

→ ••••••••



Continue

Create a GitHub account

- choose a username

Welcome to GitHub!

Let's begin the adventure

Enter your email*

✓ coder@inpred.no

Create a password*

✓ ••••••••••

Enter a username*

→ inpredder

Continue

Create a GitHub account

- choose email preferences

Email preferences

☐ Receive occasional product updates and announcements.

Continue

Create a GitHub account

- solve the puzzle



account

ne for å rotere objektet så det vender i
om hånden. (1 av 1)



atch denne
nkelen



Create a GitHub account

- create your account



Create a GitHub account

- find the activation code in the email you received



Here's your GitHub launch code, @inpredder!



Continue signing up for GitHub by entering the code below:

40619601

Open GitHub

☐ 10-20

☐ 20-50

☐ 50+

Are you a student or teacher?

☒ N/A

☐ Student

☐ Teacher

Continue

What specific features are you interested in using?

Select all that apply so we can point you to the right GitHub plan.



Collaborative coding

Codespaces, Pull requests, Notifications, Code review, Code review assignments, Code owners, Draft pull requests, Project templates, and more.

Create a GitHub account

- choose the free plan

- > **2,000 CI/CD minutes/month**
Free for public repositories
- > **500MB of Packages storage**
Free for public repositories
- > **120 core-hours of Codespaces compute**
- > **15GB of Codespaces storage**
- > **Community support**

1. Setup

Be added to InPreD organisation at GitHub

1. Resources

- [Getting started with your GitHub account](#)

2. Development & Collaboration

- short git introduction (basic git commands, optional)
- branching system (gitflow workflow)
- github actions (linting, testing, building)
- pull requests (best practice)
- release and semantic versioning
- licensing

3. Nextflow

- general (install, best practice)
- nf-core template
- stubbing

4. `tso500_nxf_workflow`

- status
- demonstration

5. Python

- general (best practice, cli)
- unit testing (pytest)

Resources

- [Gitflow](#)
- [github actions](#)
- [nf-core](#)
- [pytest unittesting](#)
- [semantic versioning](#)