## **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

• go to https://github.com/ and click on Sign up



• enter your email

```
Welcome to GitHub!

Let's begin the adventure

Enter your email*

→ coder@inpred.no

Continue
```

set a password

```
Welcome to GitHub!
Let's begin the adventure
Enter your email*

√ coder@inpred.no

Create a password*
                                                          Continue
```

• 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
```

• choose email preferences



• solve the puzzle





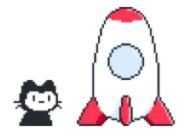
• create your account



• find the activation code in the email you received



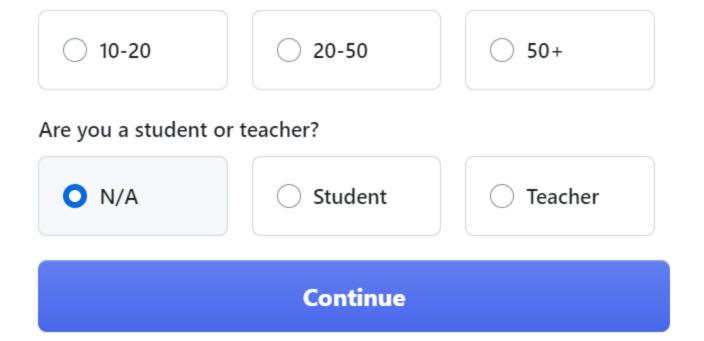
# Here's your GitHub launch code, @inpredder!



Continue signing up for GitHub by entering the code below:

40619601

Open GitHub



# What specific features are you interested in using?

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



Codespaces, Pull requests, Notifications, Code review, Code review assignments, Code owners, Draft pull requests,

#### Free

- > Unlimited public/private repositories
- > 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