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



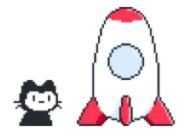
• solve the puzzle

Verify 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

select the desired options

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