

Snakemake ‘bring-your-own-code’ workshop

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NBIS

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Your teachers



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Welcome lecture

SciLifeLab - Science for Life Laboratory

- Institution for the advancement of molecular biosciences in Sweden
- **Research infrastructure services** and research groups
- Located at a number of universities across Sweden



NBIS - National Bioinformatics Infrastructure Sweden

- SciLifeLab's **Bioinformatics platform**
- Swedish ELIXIR node (the European infrastructure for biological information)
- Provides bioinformatics and data science **support to the Swedish life science research community**
- ~120 experts in different fields
- Distributed across six universities in Sweden



NBIS - National Bioinformatics Infrastructure Sweden

- **Bioinformatics support**, incl. bioimaging and medical imaging
- Software development
- Data management & data sharing guidance
- Compute resources
- **Training**: courses & workshops, advisory program for PhD students



Snakemake BYOC workshop



Welcome lecture



Schedule

Monday, 27 May

Time	Topic
09.00 - 09.20	Welcome and introduction
09.20 - 10.20	Lectures <ul style="list-style-type: none">- Anatomy of a Snakefile- Scatter-gather solutions- Example workflow
10.20 - 12.50	Breakout rooms (incl. coffee break) <ul style="list-style-type: none">- Ice-breaker session- Feedback session- Coding session
12.50 - 13.00	Wrap-up day 1



Breakout rooms

- During most of the workshop, you will be in breakout rooms
- We have placed you in **small groups** based on your replies in the application form
- Each group has their **own teacher**



Feedback session (today)

- You will be in a **breakout room** with your group (incl. your teacher)
- Each of you **presents** their project for the workshop
- You have **30 minutes**, incl. questions and feedback
- This will hopefully help you to find a **starting point** to work on your pipeline



Coding sessions (every day)

- You will be in a **breakout room** with your group (incl. your teacher)
- You will each **work individually** on your project
- You can ask your group whenever you need help or feedback
- Your teacher will try to help, but all participants are encouraged to **help each other**



Schedule

Tuesday, 28 May

Time	Topic
09.00 - 10.00	Lectures - Using conda, containers and env-modules in Snakemake
	- Running Snakemake locally & on a cluster
10.00 - 12.50	Breakout rooms (incl. coffee break) - Coding session
12.50 - 13.00	Wrap-up day 2



Schedule

Wednesday, 29 May

Time	Topic
09.00 - 10.00	Lectures
	- Best practices for Snakemake workflows
10.00 - 12.50	Breakout rooms (incl. coffee break)
	- Coding session
12.50 - 13.00	Wrap-up day 3



Zoom etiquette

- Please keep your webcam on
- **Lectures**
 - Please stay muted
 - If you have a question, unmute and speak up
- **Breakout rooms**
 - Feel free to stay unmuted, unless there is a lot of background noise



Slack

- Workspace nbissnakemakebyoc.slack.com for communication during the workshop
- #general for questions or information concerning everyone
- Separate channels to communicate within each group, e.g. to share code snippets and links



Workshop resources

- We will share the **lecture slides** with you
- You will get a workshop **certificate**
- We kindly ask you to fill out a **feedback form** at the end of the workshop



Breakout room groups

Whenever we open the breakout rooms, please move yourselves into your room:

Breakout room 1: Per

Johan

Daniel

Xinmeng

Breakout room 3: Marcel

Abu Bakar

Atul

Veronica

Breakout room 2: Verena

Tetsuichi

Aivars

Maike

Breakout room 4: John

Ionut Sebastian

Mateus

Sybil

