

Software in the life sciences: Development, Usability, Sustainability

Date

March 25-26 2019

Venue

Favrholm Campus, Hillerød

Aim of the event

The importance of software is often overlooked in the life sciences. This unconference puts software center-stage and focuses on software technologies rather than specific software-driven biological discoveries.

Keynote speaker:

Carole Goble,
Co-founder of the Software
Sustainability Institute

Organizing committee:

Nikolaus Sonnenschein,
Novo Nordisk Foundation
Center for Biosustainability

Kai Blin, Novo Nordisk Foundation
Center for Biosustainability.

Bartłomiej Wilkowski,
Danish National Biobank



Application Deadline:
January 20th 2019

Submit here:
cph-bioscience.com/en/events/software-life-sciences-development-usability-sustainability



Welcome!

Why (are we here)?

Unconference theme

- The importance of software is overlooked in the life sciences.
- This event puts software center stage and focuses less on the discoveries it drives.
- In particular, the focus will be on the life cycle of research software:
 - Code rots after PhD student/postdoc leaves the lab
 - Funding agencies prefer investing into publishable output instead of IT infrastructure
 - Career incentives for researchers are not aligned with long term maintenance of software.
- Engage our community to get creative and start initiatives to tackle these top-down challenges from the bottom-up.

editorial

Giving software its due

Software and algorithm development is crucial for scientific progress; we discuss how to improve the impact and recognition of these tools.

At *Nature Methods*, we believe that methodological advances drive biology and warrant publications that will reach a broad audience. Among these developments are software tools, which underpin many discoveries, yet often don't get the credit they deserve. Although citations certainly aren't the main impetus for most developers, they help journals and funding agencies get a sense of the need for and uptake of these tools within the community, and can lead to a positive cycle of publications, funding, and further development. But what about the people

successful software and are published independently often get completely overshadowed, at least in terms of citations, by tools that rely on them directly. It becomes easy to see, then, why fair and proper citation can be challenging, even though the vast majority of researchers have the best intentions. Still, it is crucial to address this gap, as proper credit encourages collaboration between people developing tools at different levels to ensure that robust, user-friendly tools ultimately come to light.

was that journals eliminate the cap on the number of citations. We take these points to heart and agree that such steps would improve software citation; we plan to review our policies and workflows accordingly.

In addition to proper referencing, we also asked these developers to share advice for making tools that have the potential to be used widely and have staying power. The major theme among the responses was to develop user-friendly tools that, when possible, are broadly applicable to different user needs. This often requires devoted

Agenda

- Clear definition of software sustainability at the NNF centers and beyond
- Bringing awareness to people about issues with software sustainability
- Participant-driven creation of a white paper with “Ten simple rules for sustainable software development in NNF funded research”

Organization



Bart Wilkowski
Danish National Biobank



Niko Sonnenschein
NNF Center for Biosustainability



Kai Blin
NNF Center for Biosustainability

Keynotes



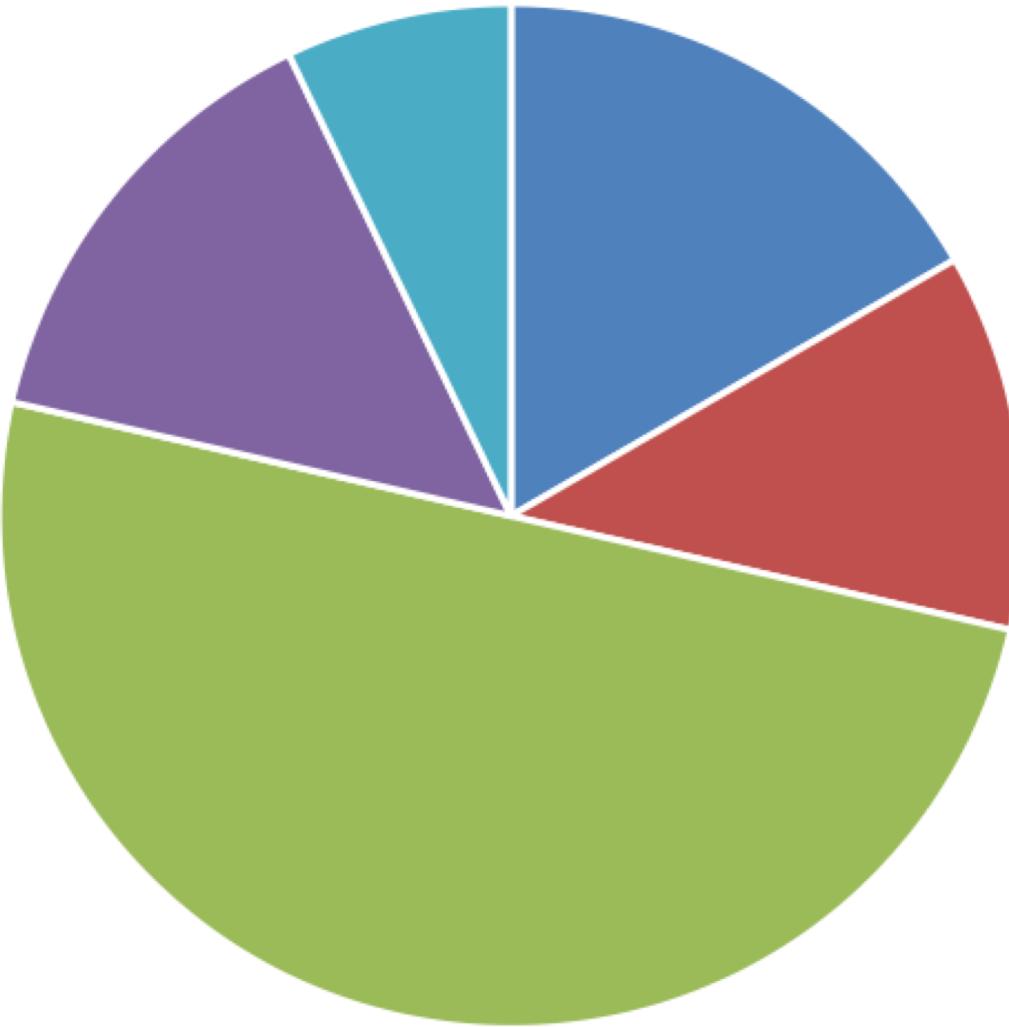
Carole Goble
University of Manchester
Software Sustainability Institute

...



Tim Gardner, CEO Riffyn
Former VP of R&D at Amyris

Representation



■ Danish National Biobank

■ NNF Center for Biosustainability

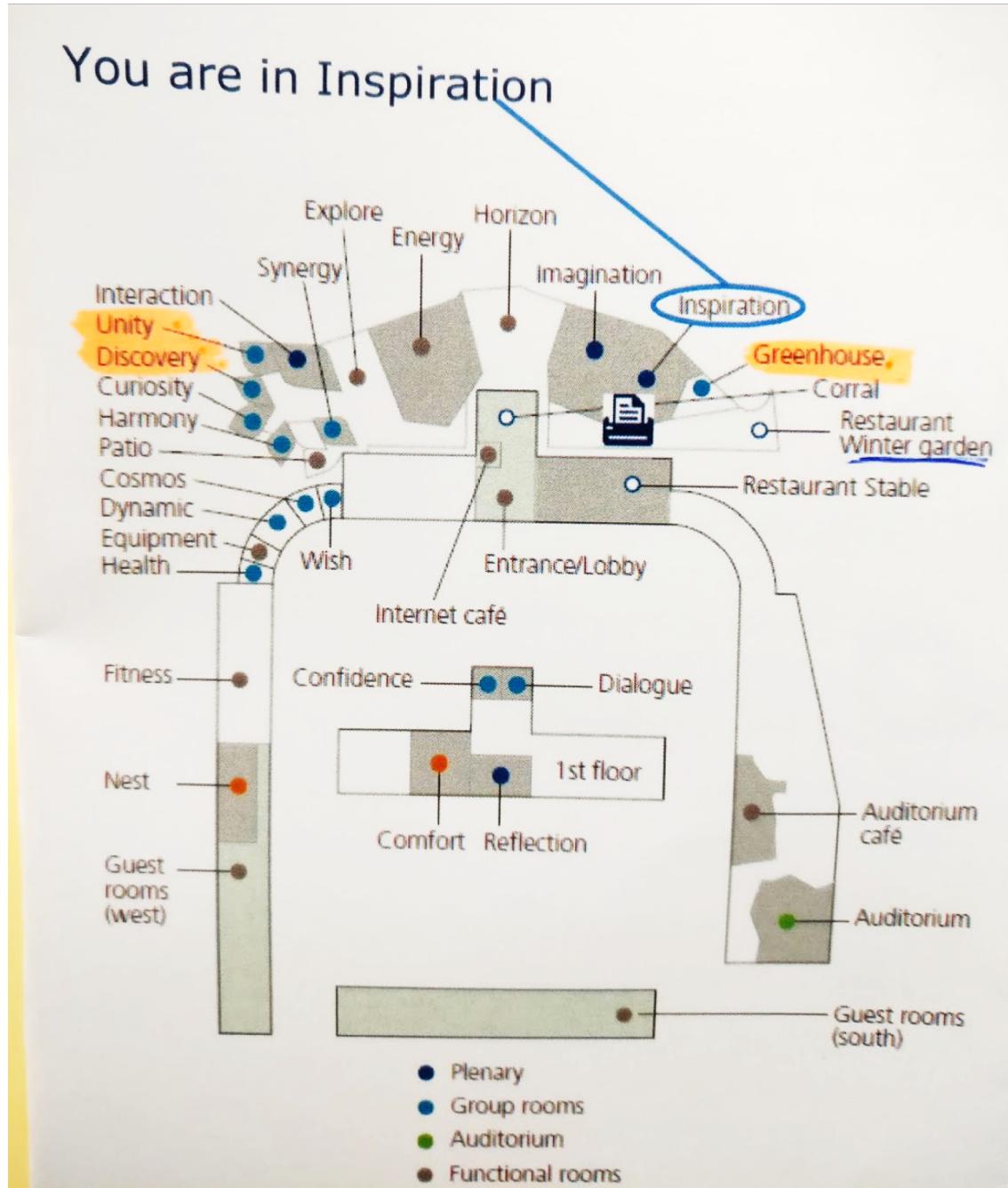
■ DanStem

■ NNF Center for Metabolic Research

■ NNF Center for Protein Research

Rooms

You are in Inspiration



Wifi

favrholmguest
access4guest

Program

Day 1

- 08:30 – 09:00 Registration, coffee and light breakfast 
- 09:00 – 09:15 Introduction and presentation of the unconference theme and agenda
- 09:15 – 10:15 1st Keynote Carole Goble, "Better Software Better Research", [Software Sustainability Institute](#)
- 10:15 – 10:30 Coffee break 
- 10:30 – 12:00 Presentation of topics and meeting room allocation
- 12:00 – 13:30 Lunch 
- 13:30 – 14:30 2nd Keynote by Tim Gardner, CEO at [Riffyn](#)
- 14:30 – 14:45 Coffee break 
- 14:45 – 17:15 Beginning of the unconference activities (multiple sessions in parallel), participant-driven
- 17:15 – 17:30 Coffee break 
- 17:30 – 18:00 Lightning talks presenting the session results; vote on most pressing issue
- 18:00 – 18:30 Free time
- 18:30 – 20:00 Dinner 
- 20:00 – (open ended) Networking 

Program

Day 2

- 8:00 – 09:00 Breakfast (checkout until 9:00 latest) 🥐
- 9:00 – 09:30 Short recap of Yesterday's activities plus room organization
- Two activities in parallel (including coffee ☕ breaks at 10:15 –10:30 and lunch 🥗 at 12:00–13:00):
 - 09:30 – 14:00 Focused session on most pressing issue determined on the 1st day
 - 09:30 – 14:00 Workshop on Docker and how it can be used for reproducible computational workflows
- 14:00 – 14:15 Cake 🍰
- 14:15 – 15:00 Synthesis of previous sessions into 10 “simple” recommendations
- 15:00 – 15:15 Closing remarks by organizers
- 15:15 – 16:30 Preparation of 10 “simple” recommendations outline/draft by the organizers

Sessions

Author ▾		Projects ▾	Labels ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	① 11 Open ✓ 2 Closed					
<input type="checkbox"/>	④ Birds of a Feather: How can we best ensure integrity in training data for machine learning / deep learning / AI solutions?	#15 opened 2 days ago by tilmweber				
<input type="checkbox"/>	④ Lightning: Singularity - alternative for docker in high performance computing	#14 opened 2 days ago by pdworzynski			2	
<input type="checkbox"/>	④ Lightning: Environment modules: "module load" for fun and profit	#13 opened 2 days ago by pdworzynski				
<input type="checkbox"/>	④ Lightning: Installing dependencies and virtual environments	#12 opened 4 days ago by borisevichdi				
<input type="checkbox"/>	④ Lightning: Why and how to CI (continuous integration) in 5 minutes	#11 opened 4 days ago by borisevichdi				
<input type="checkbox"/>	④ How to shift perception of bioinformatics from supplementary work to equal expertise	#10 opened 4 days ago by borisevichdi				
<input type="checkbox"/>	④ How to come up with computational best practices and drive their adoption	#9 opened 4 days ago by pvtodorov			3	
<input type="checkbox"/>	④ How to select software for a specific job?	#8 opened 24 days ago by ftmashari				
<input type="checkbox"/>	④ Should every scientist be a data scientist?	#7 opened 28 days ago by tgardner4			2	
<input type="checkbox"/>	④ Where to store stuff	#5 opened on Feb 19 by cfblaeb			5	
<input type="checkbox"/>	④ Get all the participants' GitHub accounts so that they can be added to the 'participants' team	#2 opened on Feb 19 by phantomas1234			30	

A large blue Twitter bird icon is positioned on the left side of the image, facing right. It has a white outline around its head and tail. The body is a solid blue color.

#givesoftwareitsdue

Thank you novo
nordisk !
fonden