

# CMAS open-code

A platform for sharing movement analysis code and resources



**Dimitra Blana & the team at ORLAU**



## CMAS Small Project Grant

Pays for my time, organising a face-to-face workshop in September, and one £100 travel grant for each CMAS-accredited lab to attend the workshop

**moz://a**

## Mozilla Open Leaders 7

Mentorship and training in a 14-week online program on working open

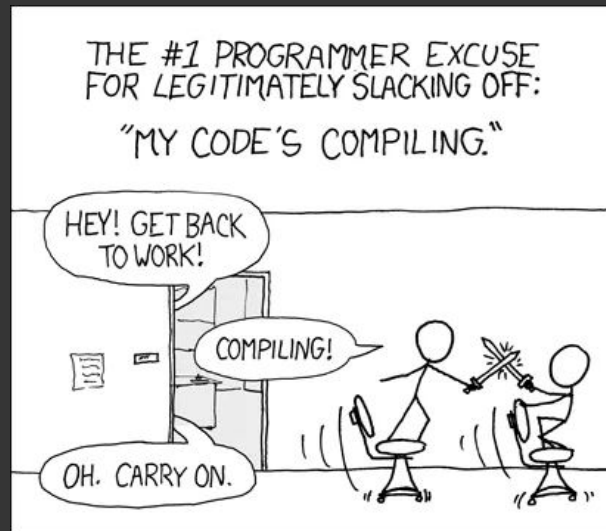
<https://cmasuki.github.io/>

# A platform for sharing movement analysis code and resources

**Why?** Using movement analysis code can **save time** and **reduce errors** by automating routine tasks, and **produce new insights** by enabling complex calculations.

However, not everyone has the skills or time to learn how to develop their own code.

It is also a waste of time and effort re-inventing the wheel.



<https://xkcd.com/>

<https://cmasuki.github.io/>



## Welcome to the CMAS open-code project!

Our aim is to share coding resources, to improve and accelerate movement analysis.

We would like our platform to work for everyone:

- If you already have technical skills, you can collaborate, create new tools, and share them with others.
- If you are a coding beginner, you will find a library of tutorials and example code to support your learning.
- If you would like to use existing code, you will be able to easily find relevant resources, with instructions and examples of use.

[Great! Where do I start?](#)

<https://cmasuki.github.io/>

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## Survey results

Survey purpose: to identify training requirements and programming languages currently used across the CMAS community

**30 responses!**

<https://cmasuki.github.io/>

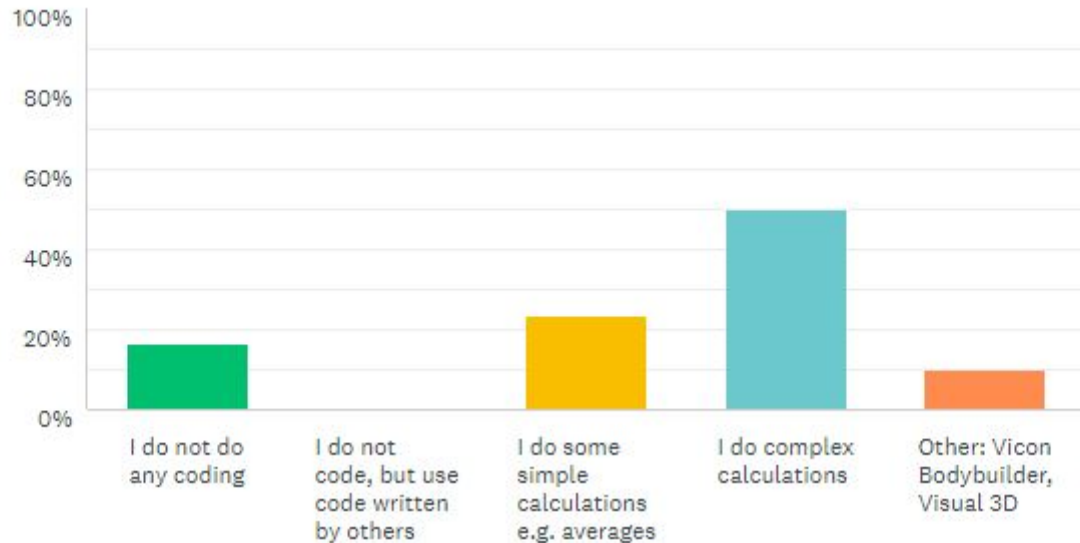
# —

## Responders

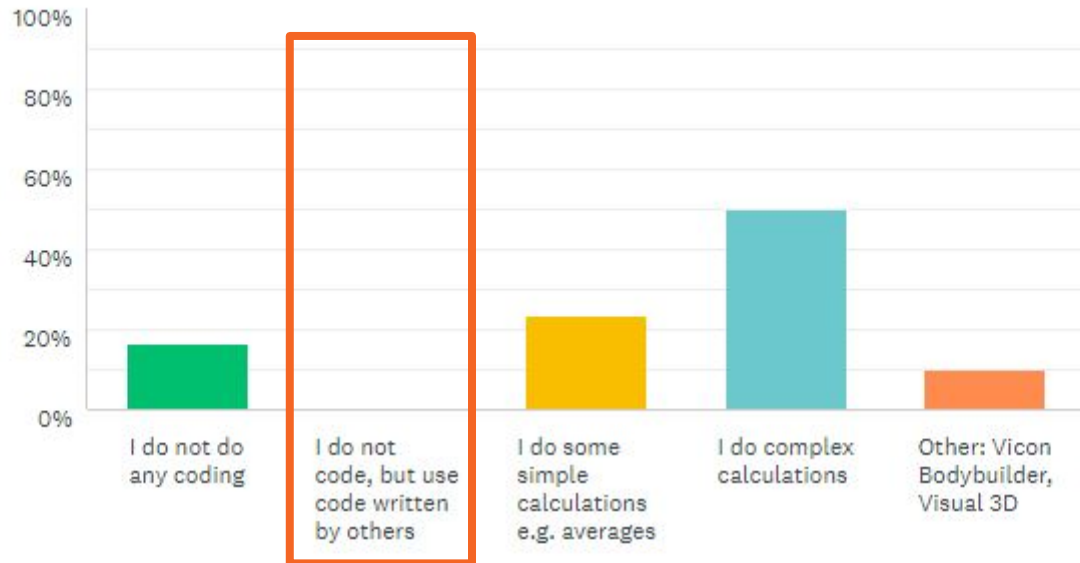
- 19 out of 30 work in CMAS-accredited labs
- Responses from clinical scientists and engineers, physiotherapists, medical doctors, biomedical engineers, PhD students, university researchers, lecturers and professors

<https://cmasuki.github.io/>

## How much coding do you currently do for your movement analysis work?

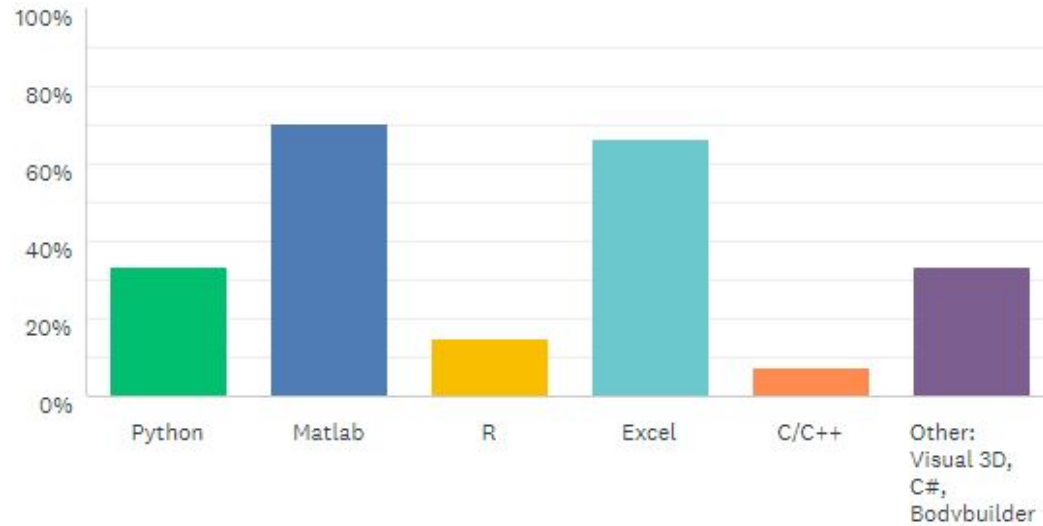


## How much coding do you currently do for your movement analysis work?

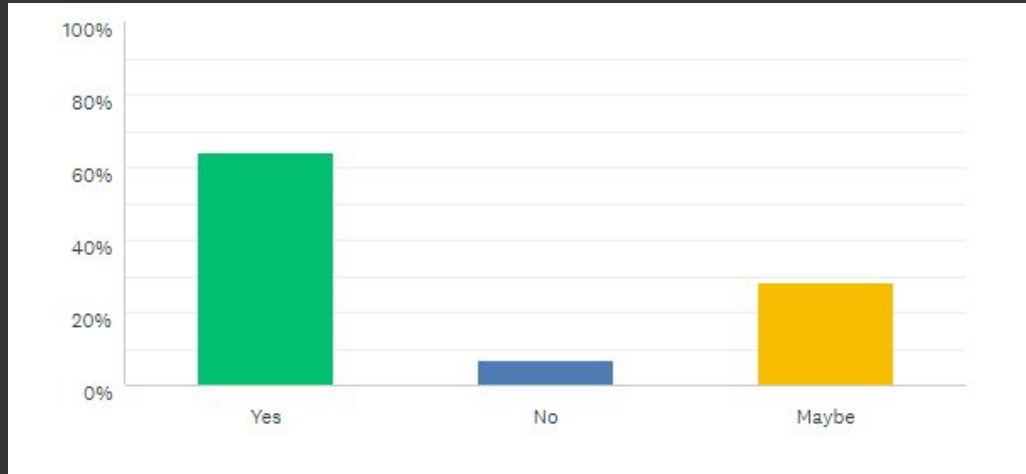




If you do some coding, which programming language(s) do you use?



# Would you be interested in contributing your code to our freely available online platform?



Maybe:

- Code is lab or project specific
- Documentation not good enough
- Could lead to too many requests for support

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**If you do not do any coding currently, would you be interested in learning?**


**100% yes!** (21 answered, 9 skipped)

**Would you be interested in attending a face-to-face workshop on September 2nd in ORLAU?**

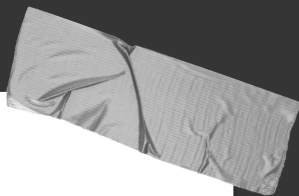
**24 yes** (if available)

<https://cmasuki.github.io/>

# Comments



"This is a great idea!"



"This is a **great initiative** and it'd be good to have some formal checking of people's code and, dare I say it, some **standardisation** for documentation and even coding standards!"

<https://cmasuki.github.io/>

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# Comments

“Code will need to be carefully documented and organised - will be a reasonably big job as the majority of biomechanists who program **have no professional training in software development** and hence write code that is not in a format easily usable by others.

Add this to the **wide variety of data types and formats** that people work with and a decent challenge is created!

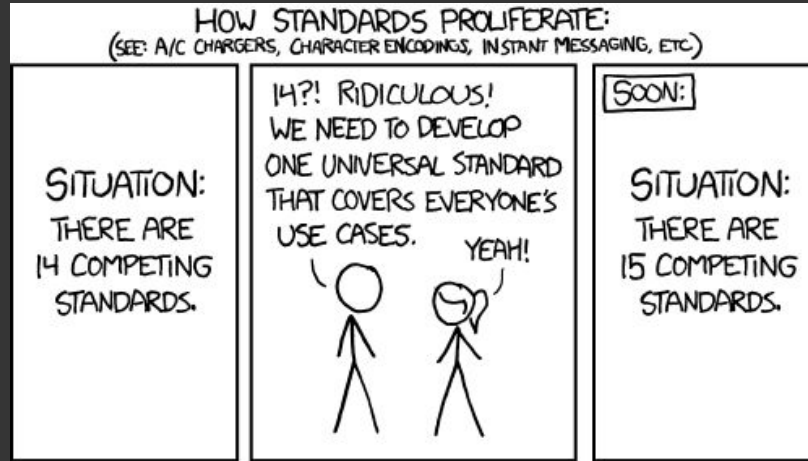
May be helpful but could very easily end up as **a repository of miscellaneous code that is no use to anybody else** as it is inadequately documented, standardised and/or tested.”

<https://cmasuki.github.io/>

# Summary of survey results

- Everyone thinks coding is important!
- Matlab and Excel are currently the most used platforms
- There is not much code sharing
- There is concern about:
  - ◆ quality of code and documentation
  - ◆ variety of formats across labs

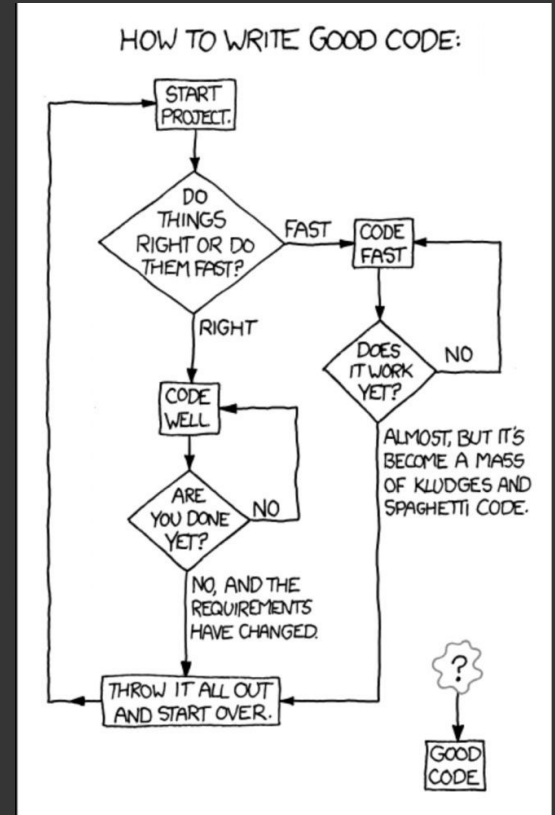
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<https://xkcd.com/>

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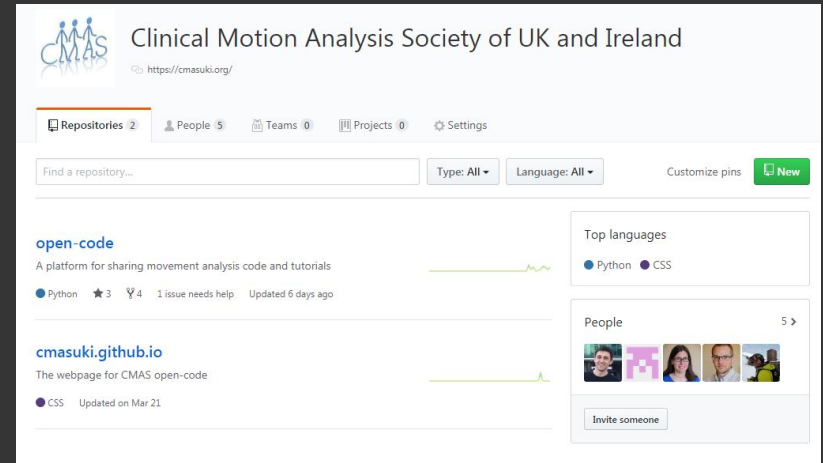
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<https://cmasuki.github.io/>

# What do we have so far?

- **Platform hosted on Github**
- Welcome page, information for potential contributors, code of conduct
- Some initial code provided by Neil Postans
- Slack workspace, newsletter mailing list
- 6 community members

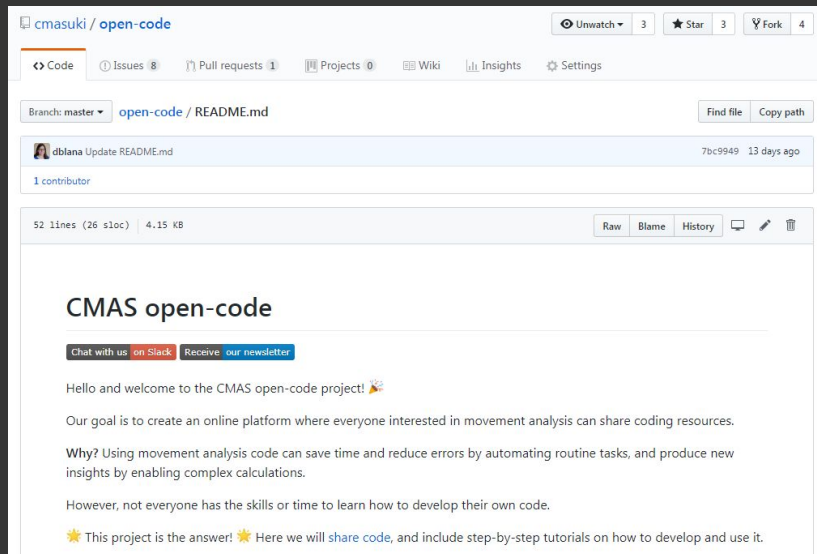


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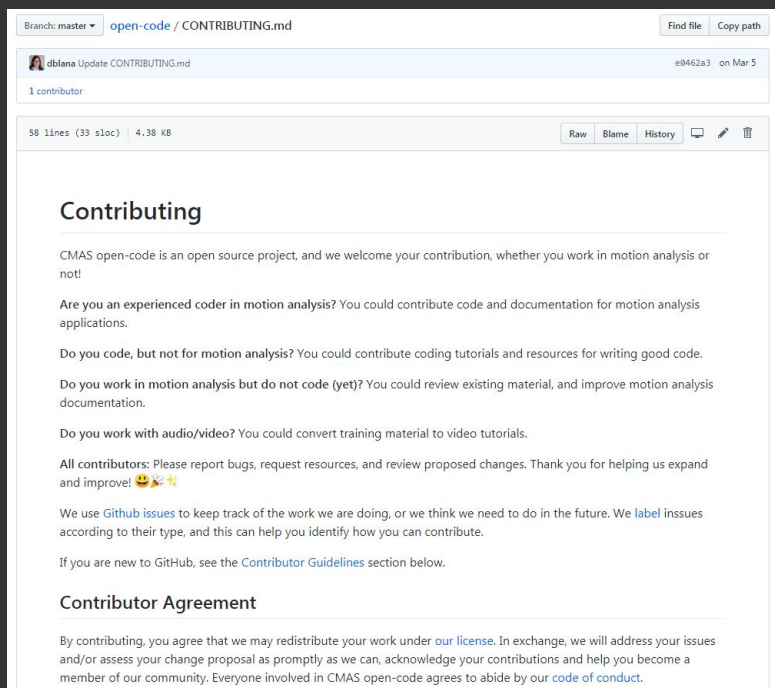
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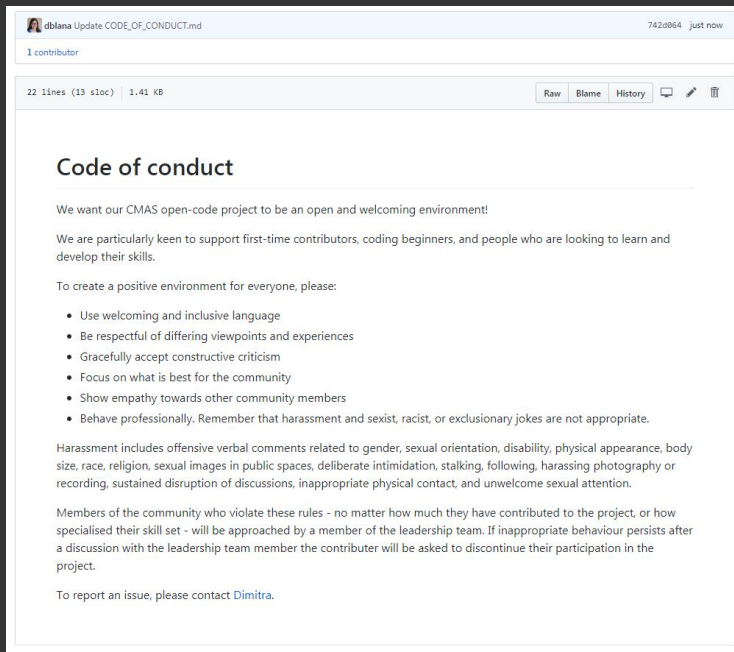
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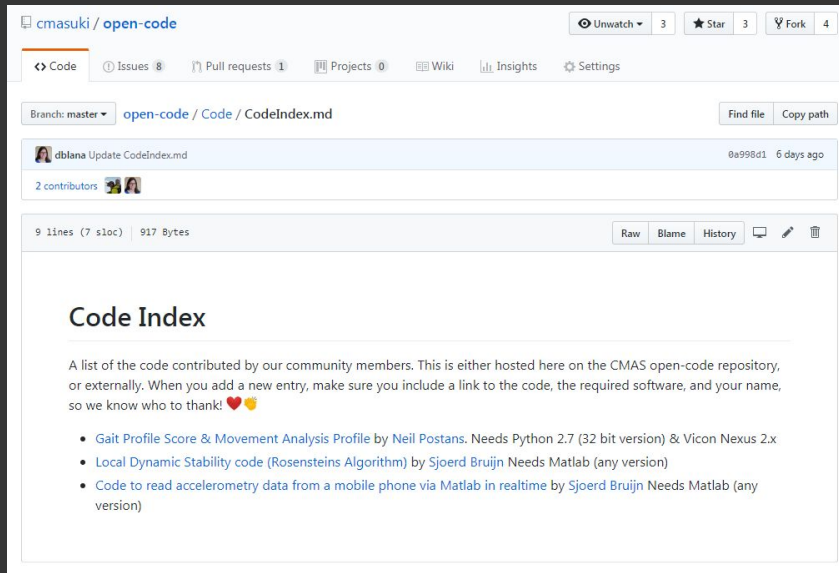
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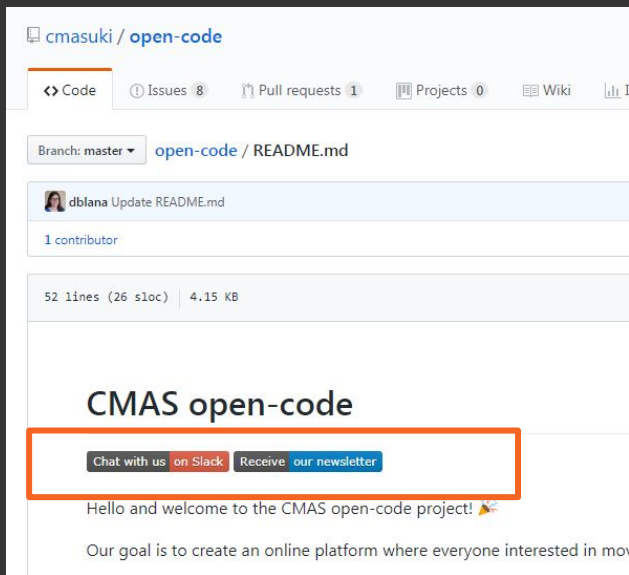
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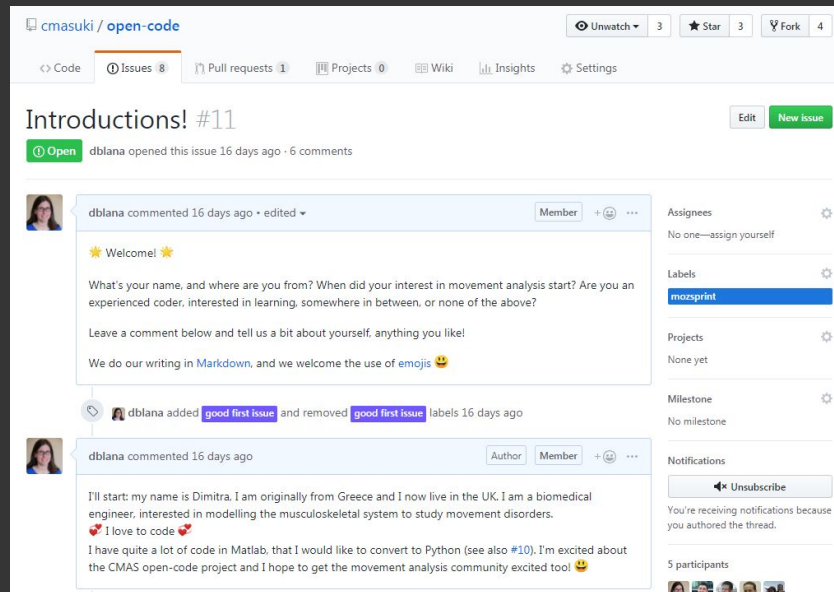
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	<b>Fabien Leboeuf</b> aaa34169
	<b>Ed Chadwick</b> ekjchadwick
	<b>Sjoerd Bruijn</b> SjoerdBruijn
	<b>Dimitra Blana</b> dblana
	<b>Neil Postans</b> npostans
	<b>Caroline Stewart</b> CarolineORLAUKeele

<https://cmasuki.github.io/>

# Three steps to get started

1. Visit the website and have a look around
2. Create a Github account
3. Tell us a bit about yourself

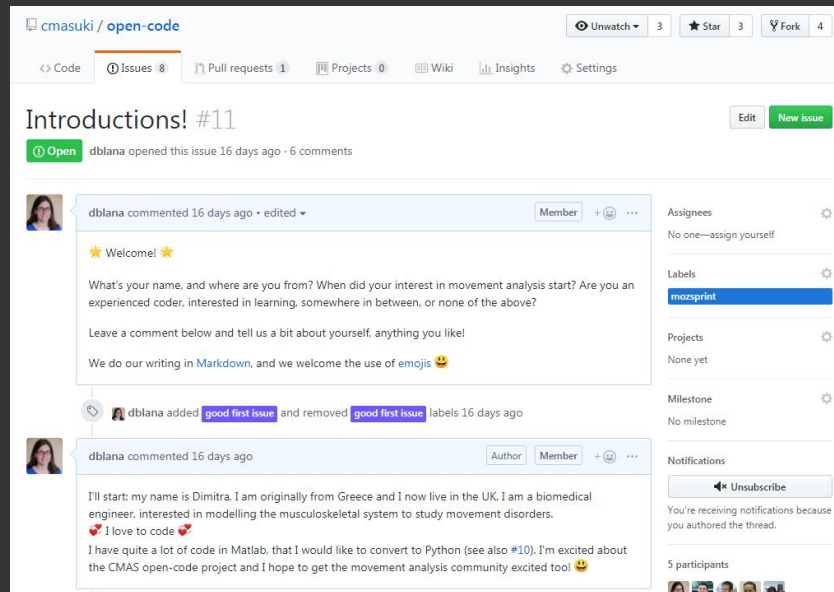


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# Three steps to get started

1. Visit the website and have a look around
2. Create a Github account
3. Tell us a bit about yourself

- + Join our mailing list
- + Join Slack



<https://cmasuki.github.io/>



## CMAS-open-code

Dimitra

Jump to...

All Threads

Channels

# coding-tutorials

# everyone

# mozilla-may-sprint

# random

+ Add a channel

Direct Messages

Slackbot

Dimitra (you)

Caroline Stewart

cmasuki.opencode

Ed Chadwick

Fabien Leboeuf

Fraser Philp

Neil Postans

Sarah Jarvis

+ Invite people

Apps

+ Install Google Drive

## #everyone

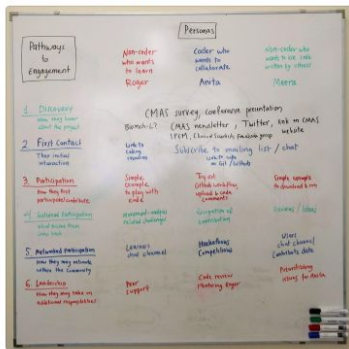
8 | Company-wide announcements and work-based matters

Wednesday, April 10th

## cmasuki/open-code

A platform for sharing movement analysis code and tutorials -  
cmasuki/open-codeThe three "personas" and their pathways to engagement were inspired by the Mozilla guidelines: <https://mozilla.github.io/open-leadership-training-series/articles/building-communities-of-contributors/bring-on-contributors-using-personas-and-pathways/>

IMG\_20190408\_152401.jpg



We need to create coding resources for "Roger" (the learner)! If you're interested in helping with that, we have a dedicated channel: #coding-tutorials



Fraser Philp 2:06 PM

joined #everyone along with Caroline Stewart.



Caroline Stewart 2:20 PM

In my capacity as Meera, I would love some code to anonymise C3D files for sharing. Previous approaches didn't quite work!



Dimitra 2:24 PM

That's an excellent idea! I will create a new issue on Github about this, unless you want to do it Caroline...? You just need to go here: <https://github.com/cmasuki/open-code/issues>, click "New issue", and give it a name and short description. Let me know 😊 (edited)

GitHub

## cmasuki/open-code

A platform for sharing movement analysis code and tutorials -  
cmasuki/open-code

1 reply 7 days ago

Thursday, April 11th



Message #everyone

Why use  
Slack?



Search or jump to...

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cmasuki / open-code

Unwatch 3 Star 3 Fork 4

Code Issues 8 Pull requests 1 Projects 0 Wiki Insights Settings

## Anonymise C3D files for sharing #15

Edit New issue

Open dblana opened this issue 8 hours ago · 2 comments



dblana commented 8 hours ago

Member + 👤 ...

This is a request from @CarolineORLAUKelee 😊

C3D files contain patient information (in the file path names, I believe), which means it is not possible to share them with researchers outside the lab or with the public.

It would be great to have a bit of code that takes a C3D file and removes the patient information, leaving everything else the same.

@CarolineORLAUKelee if there is anything else you'd like to add, please comment below!

dblana added enhancement help wanted movement analysis mozsprint labels 8 hours ago



aaa34169 commented 7 hours ago

Member + 👤 ...

Hi Dimitra

i have scripts for that ( python and Matlab). I will add it to my fork and send you a pull request.  
Hope Caroline be happy

cheers



dblana commented 7 hours ago

Author Member + 👤 ...

🎉 Woohool 🎉

I thought you might have something like that Fabien 😊

Assignees

No one—assign yourself

Labels

enhancement

help wanted

movement analysis

mozsprint

Projects

None yet

Milestone

No milestone

Notifications

Unsubscribe

You're receiving notifications because you authored the thread.

2 participants



Lock conversation

Pin issue ⓘ

Transfer issue Beta

# Mozilla Sprint for Internet Health

The week of **May 20-24**, join our community and start contributing!\*

I will be on Slack to answer your questions

At the end of the week, the person who has contributed\* the most will **win a prize!**

\* This includes contributing code, writing comments, asking and answering questions, and reacting with emojis 😁

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