

# **Openscapes Reflections Booklet**

**Open educational resources for the Openscapes Reflections Program**

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# Welcome

**Openscapes Reflections is an open data science coaching program for researchers and those who support research.** Reflections is a 3-week program (1 hour/week) modeled from professional leadership coaching, skills increasingly core to the Openscapes approach. From May 9-26 2023, Reflections is a light-weight way to reflect on your workflows and make goals going into summer.

We designed Reflections to be rewarding for people who haven't been part of Openscapes initiatives so far, as well as returning folks who want some accountability and space to reflect on their workflows and plan how open data science practices can fuel institutional culture change. We wanted to create a space for us all to get a little less stuck in our daily workflows (folders full of files with names like "Report\_with\_figuresFINAL\_v2.doc" anyone?) so we can redirect our energy to the part of our work that we care about, connected to our values for climate change and social justice. If this sounds enticing to you, we hope you'll join us.

## Background

Over the last five years Openscapes has helped hundreds of researchers improve their work and life through open and kinder science. We know many like you have been looking for a lighter-weight way to get involved or continue building habits to support yourself and your colleagues. We've designed the Reflections Program to meet this need and also be more accessible and affordable. We've specifically designed it for people who:

- have been interested in [Openscapes Champions](#) (a 10-week mentorship program for environmental and Earth science teams) but have not yet participated due to cost or booking availability
- have participated in [Openscapes initiatives](#) and would like this opportunity for onboarding new team members, or want to revisit their work-in-progress themselves
- have participated in Openscapes [Pathways to Open Science](#) and are interested in next steps for building more resilient workflows
- have not yet been involved with Openscapes, and regardless of discipline, job title, career stage, and proximity to data and code, are feeling some amount of workflow friction, or are curious about open science

We know that **making space to talk about workflows** is so important for teams – [Seaside Chats](#) and Coworking are often cited as the most valuable parts of Openscapes when we check in with teams we’ve worked with in academia and government. These spaces are where folks identify their needs and begin addressing them through individual skillbuilding and shared workflow redesign, whether or not they work with data or code. Making this space to reflect is an integral part of Openscapes Champions and we think it will be helpful to folks as a stand-alone program that can include far more people.

## Program Details

*Please note: we will update this information in early 2024 for the Reflections Program in Spring 2024*

Reflections will run from **May 9-26 2023 (1 hour/week)**. Through weekly prompts and community huddles, you’ll have opportunities to reflect on your own time or together in a way we hope leaves you feeling intentional and empowered.

- **Tuesdays:** Reflection prompts received via email
- **Thursdays:** Community Huddle with the Openscapes team and other participants (Optional, via Zoom at 12pm EDT)
- **Fridays:** Huddle recording available online for reflecting asynchronously

Each week will have a specific focus. Here is how we hope you’ll feel after each week:

1. **Reflect** - I have reflected how I work and noticed what feels good and what feels stuck.
2. **Imagine** - I have seen more of what’s possible with open data science and how my peers work and can see myself incorporating this too.
3. **Set Goals** - I am empowered by what’s possible and have a starting plan and community to weave this into my ongoing work, and I know I am not alone.

Reflections is a self-paced program to improve your daily workflow, no matter where you are starting from. We’re hoping this is something that will be valuable for you year after year, both for reflecting yourself and onboarding your team.

## What to expect

No judgment, just support and community! We know from experience it is intimidating to change how you work, and this process takes time and small steps. Through Reflections we will focus on this journey together.

Each week you'll reflect on the prompts in this booklet (upcoming), and have the opportunity to join a Huddle to reflect in the company of like-minded folks, ask your questions, and share your experiences. We'll record this conversation so others can follow along asynchronously. This is how we all learn together, reimagine our work, and drive culture change.

You may be asking yourself what to “reflect” on during this period and where to start. More often than not, when prompted we can identify what we need, but we don't give ourselves the space in our lives to do so. Further, the open data science landscape has completely changed how we can do and share our research, and few of us have had the opportunity to find where to learn the skills required to engage. The Reflections program is a space to ask, What works for me? Where am I stuck? What would improve my work? What will I do next? We'll each answer these questions for ourselves together in a space where we each make a plan to improve how we work and support culture change more broadly.

## **Is this for me?**

We hope so! This program is for you if:

- you're sensing you could improve your daily life by rethinking parts of your workflows
- you're looking for accountability and space within limited time availability
- you're open to trying new things

You do not need any previous experience with data, code, or open science. We designed Reflections for people across career stages, disciplines, and areas of expertise.

We see open science as a movement rooted in creating a more inclusive, collaborative, and kinder future for our planet and society. This movement is being built with folks just like yourself bringing these principles to your work in whichever way you do it. Wherever you are now is the right place; this program gives you that space and guidance to figure out where to start or take your next step. We're excited to meet you and begin the conversations.

## **Registration**

This program has a \$95 value; please register through [this short form](#). We intend to make this program accessible to anyone interested, with sponsorship available through the form.

Registration includes 3 weekly reflection prompts and 3 live Huddles with our team and the community via Zoom. These calls will be recorded and uploaded online so that you're able to watch them on your own time if you can't attend live.

All reflection prompts are openly available through this Booklet (upcoming). Yes, you can do the Reflections program for no cost from these open educational resources alone (as is true

with all Openscapes resources!). We encourage you to do this alone (or with your colleagues) if this is right for you. By registering above you receive additional structure, accountability, and a supportive community.

## About

### Openscapes

[Openscapes](#) is an approach for doing better science in less time. We help research groups reimagine data analysis, develop modern skills that are of immediate value to them, and cultivate collaborative and inclusive research communities. Openscapes' mentorship and community engagement approaches center on open data science as kinder science, enabling increased efficiency and resilience for teams so that their work has more enduring impact.

### Our team

Julie Lowndes and Ileana Fenwick are designing and leading the Reflections Program this year. We are super grateful to Erin Robinson for introducing us to coaching as a skill for open data science and having the initial idea for the Reflections program. We're also grateful for many formative conversations with Liz Neeley, and to Stefanie Butland for helping support all Openscapes programs and communities!



Figure 1: Ileana Fenwick and Julie Lowndes at the 2022 RStudio conference

Hi! I'm Ileana, a core member of the Openscapes team. I learned about open data science as a first year PhD student and these tools have transformed how I do my work. Going from never hearing about open science before to implementing these strategies and tools is challenging!

We don't expect you to do it all in these next few weeks. This is a space to study your own habits and workflows so we can improve incrementally and help each other.

Hi! I'm Julie, founder and director of Openscapes. Since I first felt empowered by the open science community I've made it a priority to welcome and support as many others as possible. I have learned how to experiment and incorporate the new things I learn into my daily work, whether that is with data, code, facilitation, community building, or other skills relevant to open science, climate, and social justice movements. I'm excited to have this time to reflect with you!

Please ask us your questions! We look forward to learning together with you on this journey in the first iteration of this program.

## **This Booklet**

The Booklet is written as an open educational resource to reuse and remix. This open curriculum is improved iteratively and the most recent version is always available online. Each (upcoming) chapter in the Reflections Booklet introduces prompts to guide your reflections.

And also, awesomely, it's created with the same tools and practices we use in analyses: R/RStudio - R Markdown and [Quarto](#) - and GitHub.

As we migrate our website to Quarto from RMarkdown, some of this content from this page will move to a separate page, separate from this booklet. Stay tuned at [openscapes.org/initiatives](https://openscapes.org/initiatives).

## **Citation**

All material in the Openscapes Reflections Booklet is available under a [CC-BY 4.0 licence](#).

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# Defining our workflows

We broadly define workflows as the tools, habits, and practices that we use to complete, collaborate on, and share our work. It can include how and when we like to send emails or the structure of documents we share with our coworkers. Our workflows will evolve with different projects, software, and collaborators, and defining it can be a process. The most important thing about your workflow is that it works for all involved!

**Week 1 Huddle slides** provide a welcome and share examples for our first week together. We will spend time reflecting on our workflows so that in future weeks we can map out incremental and impactful ways improve your workflow, no matter where you're starting from.

**Week 2 Huddle slides** provide a few examples to help spot things other people do that could help your workflow.

**Week 3 Huddle slides** provide a few examples of actions you could consider taking this summer to align with your longer term goals of organization and teamwork (Future Us). This is about many small things, not one big thing.



# How to use this booklet

The numbered chapters of this booklet are meant for you to reflect and write in each week. To make your own copy, you have a few options.

## Download as PDF

To download the booklet as PDF, click the PDF icon on the left navbar, just below the Openscapes logo.

Then, you can either use a PDF viewer to fill it in digitally, or print it out to use a pencil or pen.

## Fork to your GitHub account

We’ve built this booklet collaboratively with Quarto and GitHub. This is a workflow that’s super powerful for research — that’s where we first learned it too. This booklet is a low-stakes way to practice the Quarto-GitHub workflow if that’s something you’re interested in.

In GitHub terminology, “forking” means making a copy that’s still connected to the original (so that you can send updates back and forth). To do this, follow the steps involved in our tutorial: [Making shareable documents with Quarto](#). Specifically, first you’ll [fork to your GitHub account](#). Then, you’ll be able to [edit from the browser](#) or follow the instructions to work locally.

# 1 Reflect

Our purpose today is to notice – what works, what doesn't work? We'll think about your workflows and how you collaborate.

## 1.1 What are things you know about yourself and how you work?

*What are the conditions when you do your best work? This could be things like I write best in the mornings, I am comfortable speaking up in new spaces.*

## 1.2 What software do you use, and for what purposes?

*Think across your different workflows. Where do you do your writing? How do you manage citations or versions? Do you take screenshots? If you analyze data or images, what do you use?*

## 1.3 What kinds of files do you work with?

*How do you organize them? Do you download and save in folders? How do you find them?*

## 1.4 What does your workflow look like?

*You can do this think of a specific project or piece of your workflow, or multiple projects.  
What does an example day or week look like? How do software and files connect together?  
You can draw this*

## 1.5 How do you track tasks for your workflow?

*Do you write notes to yourself or document your process? Do you use sticky notes, apps, a document, a calendar? Do you take screenshots? How do you find things weekly or come back to something after a month, a year?*

## 1.6 How do you collaborate with colleagues?

*Who is included in your workflow? How do you share files and communicate? If you think “I work alone”, consider who you talk to, how do you give and receive feedback?*

## 1.7 What feels good about your workflow?

*There are good things about your workflow. What feels good to you?*

## 1.8 What feels clunky about your workflow?

*Are there places you suspect take longer than they should or could improve in other ways?  
Are there things you find yourself repeating a lot (copy-pasting, clicking?)*

## 1.9 What is top-of-mind for you?

*What might be a focus for the next few weeks?*

## 2 Reimagine

Our purpose today is to spot things that could help your workflow. The idea is to reuse what works (for you and others), and ease off what doesn't work

### 2.1 What resonates for you from last week?

*Revisit what was top-of-mind from last week. What else has emerged? What patterns, if any, are coming up for you?*



## 2.2 Where within your workflow seems like a good place to start iterating?

*What stands out about that place? Why are you motivated to focus on this part of your workflow?*

## 2.3 Think of a good workflow you've seen. What felt good about it?

*For example, what was it about how it was organized, how different people contributed, how it was communicated? Remember meetings are part of workflows too*

## 2.4 What have you seen or heard about that has you curious?

*What are things you'd like to learn or reuse from what you've seen? Think from colleagues, talks, and examples online*

## 2.5 What are some of your values?

*Think about something you enjoy doing. What qualities about yourself do you see coming through? What is important to you personally and professionally? How do you want to make people feel?*

## 2.6 How do your values show up in your workflow, and how you interact with colleagues?

*How do you show up in your daily life at work? For example, being on time, being organized, interacting with people.*

## 2.7 What would it look like to connect your values more with your workflow?

*Think about that place that seems like a good place to focus. What if you brought what you have seen and want to learn to that place, along with your values? You can draw this*

## 3 Goal-setting

Our purpose today is to set some goals for yourself that you can act on this summer

### 3.1 What would you like to revisit from your values and workflow last week?

*What drives you? Who are your allies, colleagues, and mentors that give you energy and support?*

### 3.2 What goals are emerging for your workflow?

*Dream big. Why are you committed to these goals?*

### 3.3 What pieces do you have control over in the short and long term?

*What are the possibilities? And what are the barriers? What questions do you need answered, what conversations do you need to have?*

### 3.4 What actions can you take this summer in service of these bigger goals?

*What would you like to experiment with? Where is a place you could try something new? For example - if I feel behind every morning, what would it look like to not set meetings before 10am?*

### 3.5 What would success look like?

*What feedback would you need from yourself to know if your actions/ experiment is working or needs to be iterated? How can you give yourself grace?*

### 3.6 What do you need to make this possible?

*What support or accountability could help you? For example, journaling or sharing progress with a colleague for a set period of time*



**3.7 What's something you're excited about that you could share with others?**