

A stylized illustration of a dandelion seed head in orange and yellow tones, with several seeds floating away to the right. The word "FOSTER" is written in a large, dark grey, sans-serif font, with the stem of the dandelion acting as the letter 'F'.

FOSTER

Da teoria à prática da formação

Open Science Training Handbook

Tópicos para a 2ª parte do workshop

Discussão sobre métodos, técnicas e ferramentas para organizar ações de formação mais eficazes, participadas e interativas, recorrendo ao FOSTER Open Science Training Handbook.

Aspetos pedagógicos e organizativos da formação

- Planeamento
- Avaliação e follow-up
- Ação formação

Atividade 1: CHECKLIST para os aspetos práticos de organização de uma ação de formação.

Atividade 2: ANÁLISE DE EXERCÍCIOS práticos para ações de formação em CA (23 exercícios).

OPEN SCIENCE TRAINING HANDBOOK



book.fosteropenscience.eu

A screenshot of the Open Science Training Handbook homepage. On the left is a vertical navigation menu with items like 'Open Science Training Handbook', 'Readme', 'Introduction', 'Open Science Basics', 'Open Concepts and Principles', 'Open Research Data and Materials', 'Open Research Software and Op...', 'Reproducible Research and Data ...', 'Open Access to Published Resea...', 'Open Licensing and File Formats', 'Collaborative Platforms', 'Open Peer Review, Metrics and E...', 'Open Science Policies', 'Citizen Science', 'Open Advocacy', and 'On Learning and Training'. The main content area features an orange icon of a paint palette and a pencil. Below the icon is the title 'The Open Science Training Handbook' and a paragraph of introductory text: 'A group of fourteen authors came together in February 2016 at the TIB (Technische Informationsbibliothek, German National Library of Science and Technology) in Hannover to create an open, living handbook on Open Science training. High-quality trainings are fundamental when aiming at a cultural change towards the implementation of Open Science principles. Teaching resources provide great support for Open Science instructors and trainers. The Open Science training handbook will be a key resource and a first step towards developing Open Access and Open Science curricula and andragogies. Supporting and connecting an emerging Open Science community that wishes to pass on their knowledge as multipliers, the handbook will enrich training activities and unlock the community's full potential.'

A screenshot of the 'Open Science Basics' chapter page. The left navigation menu is similar to the homepage but highlights 'Open Science Basics'. The main content area features an orange icon of a microscope. Below the icon is the title 'Open Science Basics' and a paragraph of introductory text: 'This chapter aims to provide concrete context as well as the key points for the most relevant aspects of Open Science. Starting from the core concepts and principles of Open Science, the chapter continues to address components such as Open Research Data, Open Access, Open Peer Review and Open Science Policies, together with more practical aspects such as Reproducible Research, Open Source Software and Open Licensing and File Formats.'

<https://doi.org/10.5281/zenodo.1212496>



- Readme
- Introduction
- Open Science Basics >
- On Learning and Training
- Organizational Aspects**
- Examples and Practical Guidance
- Glossary
- References
- About the Authors & Facilitators
- Languages

Organizational Aspects

Last updated 3 months ago

[Edit on GitHub](#)

Organizational aspects

This chapter will guide you through the main practical aspects of organising a training event. Of course, what you need and will use will depend on the type of event you'll organise! The checklist should be adjusted accordingly. You will get information on preparation steps and necessary organizational tasks. This will provide you not only with valuable knowledge about event organization, but will reassure you while preparing your training. Note that most of the material in this chapter, and the whole handbook, is focused on training regarding practical workshops. Running a different type of event may require different decisions than the recommendations that follow.

CONTENTS

- Organizational aspects
- Training event basics
 - Format
 - Audience, guest speakers, and partners
 - Venue
 - Timing
 - Budget
- Organizational tasks
 - Equipment & Media
 - Marketing & Advertising Strategy
 - Registration
 - Communication
 - Catering
 - Code of Conduct
 - Certification of attendance
 - Signs
 - Social media and notes
- Event closure
 - Venue
 - Debrief
 - Evaluation
 - Dissemination
- Checklist
- References



Training event basics

Format

1

Aspetos básicos e práticos da
organização de eventos de formação.

FORMATO

**AUDIÊNCIA, ESPECIALISTAS
CONVIDADOS, PARCEIROS**

COLABORAÇÕES

REPRESENTATIVIDADE

LOCAL

DURAÇÃO

ORÇAMENTO

INSCRIÇÕES

FINANCIAMENTO

Formação em ciência aberta - aspectos de organização

FORMATO

Decidir o tipo de evento que se quer coordenar é o primeiro passo para o planeamento da formação.

Aspectos a considerar:

- **Formato**: workshop, seminário, lição (presencial), curso online, *webinar*, *blended learning*.
- Participativo, **formal**, **informal**.
- Evento integrado nos **curricula**.
- Com **convidados externos** (especialistas).
- Formação como **requisito obrigatório** dos participantes, participação voluntária.
- Os participantes vão receber **créditos** pela frequência da formação?

AUDIÊNCIA, ESPECIALISTAS CONVIDADOS, PARCEIROS

- Antes de assumir o compromisso da organização do evento, deve assegurar-se que o **público alvo** está definido com clareza,
 - e que as necessidades do público são conhecidas.
- Definir o público, o nº de participantes,
 - e as áreas de competência dos formadores.

Formato

	TYPE OF TRAINING			
	Live workshop	Course/ class	Lecture	Online Training
Audience Size				
less than 20	x	x	x	x
less than 40		x	x	x
more than 40			x	x
Funds				
none			x	x
little	x	x	x	x
loaded	x	x		
Time				
less than ½ day	x	x	x	x
½ - 1 day	x			
1- 4 days	x	x		
more than 4 days			x (series)	x (series)
Training level				
Introductory			x	x
Aware of	x	x		x
Intermediate	x	x		x
Advanced	x	x	x	x

Formação em ciência aberta - aspectos de organização

COLABORAÇÕES

- Colaboração com outros **especialistas** (oradores).
- Apoio de outras instituições, serviços, etc. (livestream, impressão...)
- **Parcerias** com outras unidades/departamento na nossa instituição,
- **Integrar o evento** de formação numa conferência de maior dimensão ou reconhecimento.
- Identificar oradores que podem ser convidados.

REPRESENTATIVIDADE

- Questões de género na equipa de formadores.
- Dependendo do tipo de evento, ter em consideração representação:
 - Geográfica
 - Disciplinar
 - Grupos/departamentos...

Formação em ciência aberta - aspetos de organização

LOCAL

Considerar:

- **Acessibilidade** (transportes, elevadores, rampas...)
- **Equipamentos** disponíveis (media, wifi, tomadas...)

<https://sparcopen.github.io/opencon-dei-report/checklist.html>

DURAÇÃO

- A duração depende do formato e conteúdos.
- Estimar o tempo para cada parte da formação.
- Ser razoável com a hora de início e fim.
- Numa universidade tem em conta os horários das aulas.
- Evitar finais de tarde e fins-de-semana.

Formação em ciência aberta - aspectos de organização

ORÇAMENTO

Pode ser necessário suporte financeiro para o evento, para:

- Local (sala)
- Despesas de viagem e alojamento de formadores
- Materiais (impressões, badges...)
- Equipamentos

Custos cobertos:

- Pela normal atividade do serviço
- Por financiamento externo ou da própria instituição
- Por valor de inscrição no evento

INSCRIÇÕES

- Ponderar recursos para processo de registo e cobrança das inscrições.
- Cobrar valores de inscrição pode ser complicado administrativamente: considerem usar serviços online

(Eventbrite, Event Smart))

- Pode ser necessário contratar serviços externos.

NOTA: não esquecer que o pagamento de inscrição diminui a hipótese de ausência no evento.

Formação em ciência aberta - aspectos de organização

FINANCIAMENTO

Procurar financiamento:

- na própria instituição, ou orçamento de projetos internos,
- Em patrocinadores externos (empresas),
- ou o pagamento de inscrição.


2

Exemplos de conceitos e estruturas de formação e exercícios práticos

Open Science summer schools (5 days)

Summer School Utrecht 2017: Introduction to Open Science in Empirical Research

14 - 18
Aug 2017



www.utrechtsummerschool.nl

Edit

The course will help PhD students and early career researchers from science and social science acquire the perspectives, knowledge and skills needed to make their empirical research more open, transparent and reproducible.

Open science is "the practice of science in such a way that others can collaborate and contribute, where research data, lab notes and other research processes are freely available, under terms that enable reuse, redistribution and reproduction of the research and its underlying data and methods" (Horizon2020 FOSTER Project).

Open science is thus concerned with the practice of empirical research so that each step of the process can be challenged and/or reproduced.


Upon completion of the course, students will have acquired the perspectives, knowledge and skills needed to make their research more 'open'.

The course will address the following themes

- Formulating an open research question;
- Developing an open research protocol;
- Maintaining open workflows;
- Writing open reports.

Where


Utrecht University Library



Full details

Organisers: **Jeroen Bosman & Bianca Kramer**,
Utrecht University, University Library
Language: ENG

Topics



Cette page appartient aux archives web de l'EPFL et n'est plus tenue à jour.
This page belongs to EPFL's web archive and is no longer updated.

EPFL PUBLIC PAR FACULTÉ EPFL EN BREF

EPFL > PHD > EMDT > Open Science in Practice > Programme

English / français

OPEN SCIENCE IN PRACTICE 2017

Programme Intervenants Organiseurs Informations pratiques Ressources Inscription

Partager: [Facebook] [Twitter] [LinkedIn] [YouTube] [Email]

Programme

Summary

This summer school is primarily aimed at doctoral students. The goal is to give early career researchers an overview of what Open Science means in practice.

Morning sessions will be dedicated to background information on the philosophy and history of the Open Science movement (Day 1), publications (Day 2), data (Day 3), software and code (Day 4).

Each afternoon will be dedicated to hands-on workshops, such as the identification of disciplinary standards (Day 1), channels for knowledge dissemination (Day 2), how to describe and reuse research data (Day 3), and best practice for sharing code and methods (Day 4).

The last day (Day 5) of the week-long course will be open to anyone on campus and will give the stage to EPFL researchers who are actively involved in Open Science initiatives on campus.

Program

- ▶ **Day 1 (Monday 25th) - Introduction - Chair: Luc Henry - Room QIE 0 108-1**
- ▶ **Day 2 (Tuesday 26th) - Publications - Chair: Béatrice Marselli, EPFL library - Room QIE 0 108-1**
- ▶ **Day 3 (Wednesday 27th) - Research Data - Chair: Aude Dieudé, EPFL library - Room QIE 0 108-1**
- ▶ **Day 4 (Thursday 28th) - Code and tools - Chair: Sünje Dailmeier-Tiessen - Room QIE 0 108-1**
- ▶ **Day 5 (Friday 29th) - EPFL Open Science Show - Chair: Marjan Biocanin - Room BC 410**

Aperçu

Summer School
Open Science in Practice
25-29 September 2017, EPFL Campus

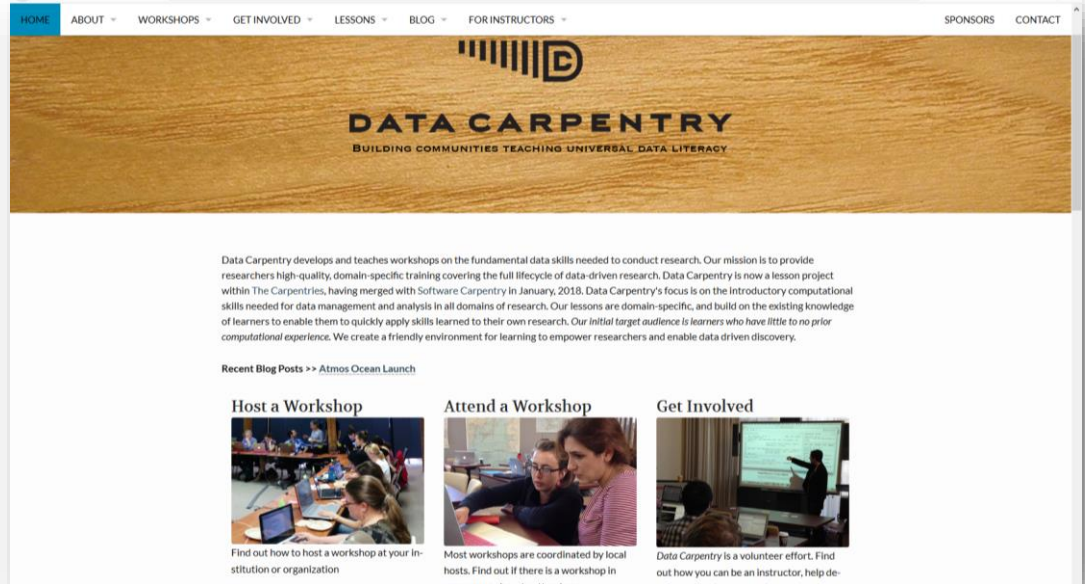
Registration is now closed
2 ECTS

Keywords

- Collaborative writing
- Copyright
- Open access
- Open data
- Open science
- Open source hardware
- Open source software
- Preprints
- Repositories
- Reproducible research
- Research data management
- Scientific publications

Carpentry workshops (2 days)

- Software Carpentry:
<https://software-carpentry.org>
- Data Carpentry:
<http://www.datacarpentry.org/>



The screenshot shows the Data Carpentry website homepage. At the top, there is a navigation menu with links for HOME, ABOUT, WORKSHOPS, GET INVOLVED, LESSONS, BLOG, and FOR INSTRUCTORS. On the right side of the menu, there are links for SPONSORS and CONTACT. Below the navigation is a large header image with a wood-grain background. In the center of the header is the Data Carpentry logo, which consists of a stylized 'D' made of vertical bars of varying heights, followed by the text 'DATA CARPENTRY' and the tagline 'BUILDING COMMUNITIES TEACHING UNIVERSAL DATA LITERACY'. Below the header is a paragraph of text describing the organization's mission: 'Data Carpentry develops and teaches workshops on the fundamental data skills needed to conduct research. Our mission is to provide researchers high-quality, domain-specific training covering the full lifecycle of data-driven research. Data Carpentry is now a lesson project within The Carpentries, having merged with Software Carpentry in January, 2018. Data Carpentry's focus is on the introductory computational skills needed for data management and analysis in all domains of research. Our lessons are domain-specific, and build on the existing knowledge of learners to enable them to quickly apply skills learned to their own research. Our initial target audience is learners who have little to no prior computational experience. We create a friendly environment for learning to empower researchers and enable data driven discovery.' Below this text is a section titled 'Recent Blog Posts >> Atmos Ocean Launch'. Underneath are three columns of content. The first column is titled 'Host a Workshop' and features a photo of a workshop with people at computers. Below the photo is the text: 'Find out how to host a workshop at your institution or organization'. The second column is titled 'Attend a Workshop' and features a photo of two people looking at a laptop. Below the photo is the text: 'Most workshops are coordinated by local hosts. Find out if there is a workshop in your area.' The third column is titled 'Get Involved' and features a photo of a person presenting at a workshop. Below the photo is the text: 'Data Carpentry is a volunteer effort. Find out how you can be an instructor, help de...'

Readme

Introduction

Open Science Basics >

On Learning and Training

Organizational Aspects

Examples and Practical Guidance

Glossary

References

About the Authors & Facilitators

Languages

Example exercises (including materials)

	Title	Topic	Type	Duration
1	Line up!	general	whole group	5-10 min
2	Prioritization of training needs	Open Concepts and Principles	whole group	10 min
3	Selection of Open Science practices	Open Concepts and Principles	whole group	1-1.5 hour
4	Open Science discussion topics	Open Concepts and Principles	small groups	20-30 min
5	LIBER Open Science café	Open Concepts and Principles	small groups	1.5 hour
6	What is research data for me?	Open Research Data and Materials	individual / pairs	15 min
7	Why not share data?	Open Research Data and Materials	small groups	20 min
8	"Open Data Excuse" Bingo	Open Research Data and Materials	whole group	20-30 min
9	Me and my data - Datagramms	Open Research Data and Materials	whole group	1-4 hours
10	Find your data publisher	Open Research Data and Materials	individual / pairs	10-15 min

CONTENTS

Examples & Practical Guidance:
adopt, adapt, develop

Example training structures

Example Exercises

Master Template

Types of exercises

Example exercises (including materials)

Resources

What tools & platforms to use / recommend?

Other resources (not curated yet)

Longlist of exercises - selection to be put in template format

Line up!

Exercicio de grupo 5–10 minutos

Tópico: *Icebreaker*

Objectivos: fazer os participantes descontraír

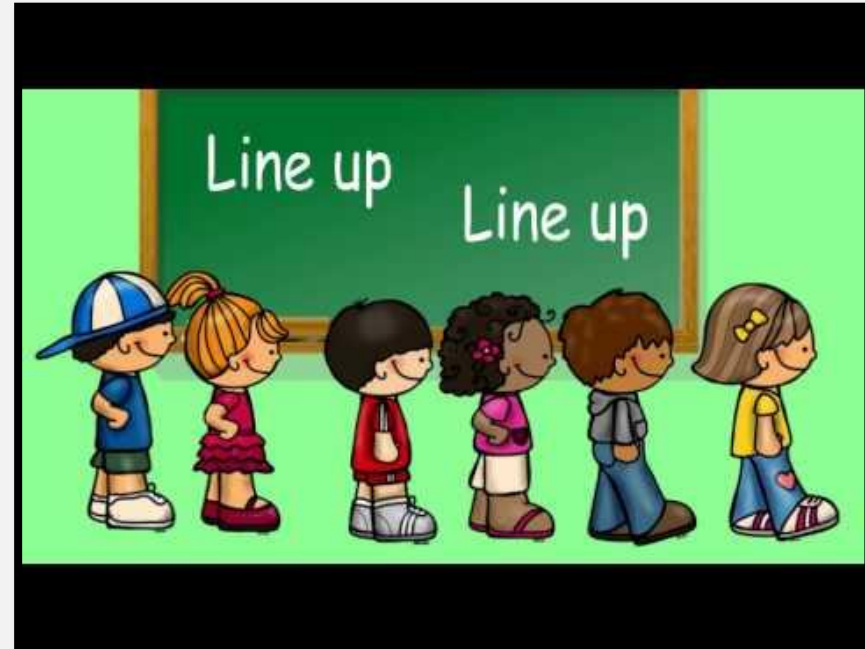
Desenhem uma linha imaginária na sala, do grau “concordo fortemente” ao “discordo fortemente”

O moderador ou um participante diz uma frase e os participantes colocam-se ao longo dessa linha imaginária. O moderador pede a alguns participantes para explicar o seu ponto de vista

Materiais e ferramentas requeridos: Nenhum

Conhecimentos anteriores requeridos: Nenhum

Não esquecer: todos devem dar a sua opinião.



Prioritization of training needs

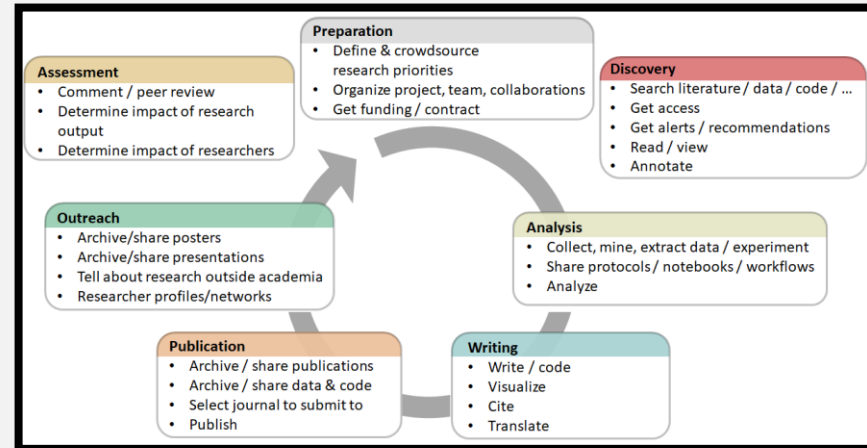
Exercício de plenário: 10 minutos Tópico: Princípios e Conceitos da Ciência Aberta

Objetivos: identificar pontos fortes e necessidades de formação

Primeiro individualmente e depois em grupo, identificar com pontos de diferentes cores as áreas em que necessita de formação, e aquelas que conhece melhor

Materiais e ferramentas requeridos: [research cycle with activities](#) impresso; autocolantes de diferentes cores

Conhecimentos anteriores requeridos : Nenhum



LIBER Open Science café

Exercício em grupos 6-8 pessoas 1h30m

Tópico: Conceitos e Princípios da Ciência Aberta

Objectivos: Obter conhecimentos de diferentes aspectos da ciência aberta; partilhar opiniões e pontos de vista sobre as declarações e tópicos com outros stakeholders

O moderador ou um participante lê uma carta com afirmações sobre tópicos da Ciência Aberta; o relator toma notas das opiniões expressadas e preenche as cartas de mapas mentais e “ideias luminosas”

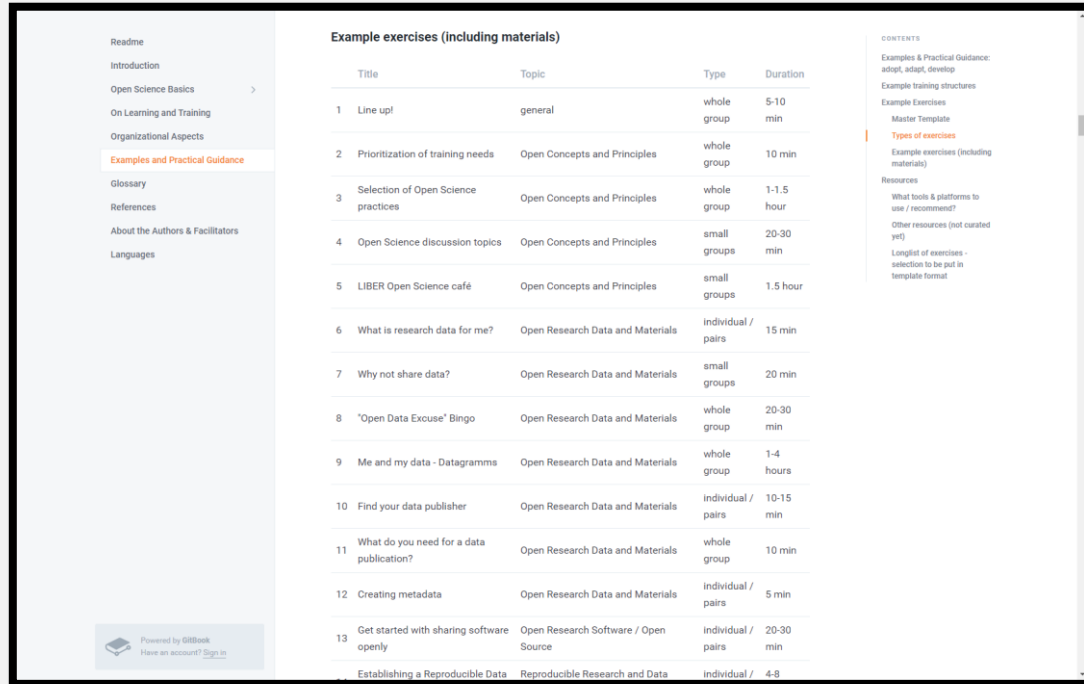
Materiais e ferramentas requeridos: Baralho de cartas Open Science Cafe

Conhecimentos anteriores requeridos : Nenhum

Não esquecer: todos devem dar a sua opinião



Atividade 2: ANÁLISE DE EXERCÍCIOS práticos para ações de formação em CA (23 exercícios).



Readme

- Introduction
- Open Science Basics >
- On Learning and Training
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- References
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9 Me and my data - Datagramms	Open Research Data and Materials	whole group	1-4 hours
10 Find your data publisher	Open Research Data and Materials	individual / pairs	10-15 min
11 What do you need for a data publication?	Open Research Data and Materials	whole group	10 min
12 Creating metadata	Open Research Data and Materials	individual / pairs	5 min
13 Get started with sharing software openly	Open Research Software / Open Source	individual / pairs	20-30 min
Establishing a Reproducible Data	Reproducible Research and Data	individual /	4-8

CONTENTS

- Examples & Practical Guidance: adopt, adapt, develop
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 - Types of exercises**
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<https://open-science-training-handbook.gitbook.io/book/examples-and-practical-guidance>