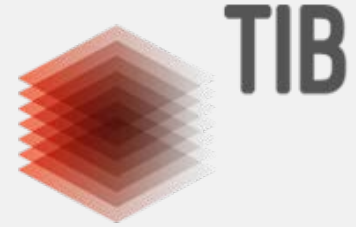




Open Science Training Handbook



Helene Brinken
SUB Göttingen
brinken@sub.uni-goettingen.de

Lambert Heller
TIB Hannover
lambert.heller@tib.eu

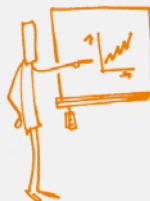
Open Access Tage 2018 – Graz

Open Training Workshop – Wie nutze ich offene Ressourcen und Communities zur Verbesserung meiner Fortbildungen, Beratung und Advocacy?

→ Stärkung der praktischen Umsetzung von Open Science



Open Science Training (online & offline)



Open Licensing

Licensing your research outputs is an important part of practicing Open Science. In this course, you will:

- know what licenses are, how they work, and how to apply them ...



Open Science and Innovation

This course helps you to understand open business models and responsible research and innovation (RRI) and illustrates how these can foster innovation. By the end of the course, you will:

...



Open Peer Review

This course introduces you to open peer review (OPR), an emerging practice which is gaining momentum as part of Open Science. Upon completing this course, you will:

- understand ...



Sharing preprints

This course shows you how sharing preprints can improve your research and support Open Science. By the end of the course, you will:

- know what preprints are
- be able t...



Open Access Publishing

This course helps you to become skilled in Open Access (OA) publishing in the context of Open Science. By the end of the course, you will:

- understand how to publish your work o...



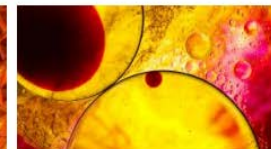
Data Protection and Ethics

This course covers data protection in particular and ethics more generally. It will help you understand the basic principles of data protection and introduces techniques for implementing data pr...



Open Source Software and Workflows

This course introduces Open Source Software (OSS) management and workflow as an emerging but critical component of Open Science. The course explains the role of software sharing and sustainabil...

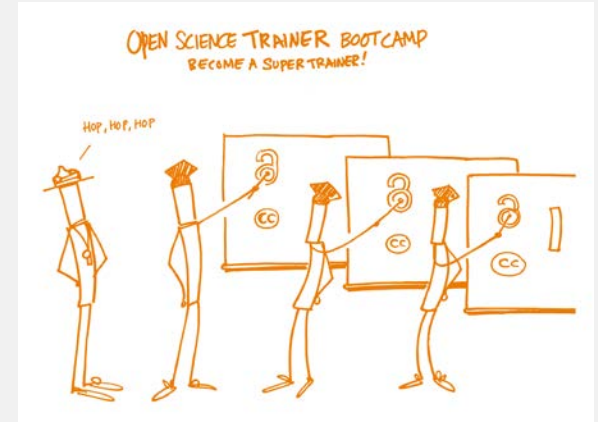
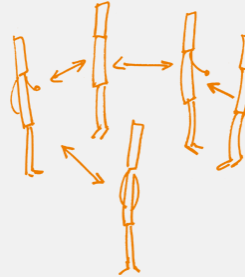


Managing and Sharing Research Data

Data-driven research is becoming increasingly common in a wide range of academic disciplines, from Archaeology to Zoology, and spanning Arts and Science subject areas alike. To support good rese...

→ Stärkung der Trainingskapazität

- 'train the trainer' Ansatz
- Multiplikator-Effekt



- Aufbau einer Community
- Ressourcen um die Trainer-Community zu unterstützen

→ [Open Science Training Handbook](#)

Das Open Science Training Handbook



- Idee: Erfahrene Open Science Trainer zusammen zu bringen, um ein Buch zu schreiben
- Anleitung **wie** Wissen über Open Science vermittelt werden kann
- August 2017: Aufruf zur Bewerbung (39 Bewerbungen)
- Auswahl:
 - Open Science Expertise, Lehrerfahrung, Wissenschaftlicher Hintergrund & Motivation
 - Ausgewogenheit von Aspekten wie Geschlecht, Region, verschied. Disziplinen & Expertisen



14 als Autoren eingeladene Experten

Der Book Sprint



- Organisation im Februar 2018 in der TIB in Hannover
- Book Sprint Format
 - Stellt ein fertiges Buch in nur wenigen Tagen sicher
 - FOSTER & TIB stellten die Schreibumgebung zur Verfügung (Raum, Essen, Werkzeuge, Moderation, usw.).



Der Book Sprint

- Autorenguide
- Methoden (Design Thinking):
 - Persona
 - Empathy Map
 - Journey Map
- Werkzeuge:
 - Google docs
 - Etherpad
 - GitHub & GitBook

FOSTER Book Sprint - Author Guide

MISSION

- Create an educational handbook focused on practical teaching of Open Science in order to support trainers in organising their own sessions.
- The handbook will be supportive, easy to read & entertaining.

CONTENT/OBJECTIVES OF THE HANDBOOK

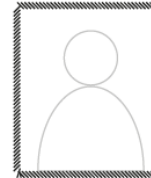
- Guide trainers how to spread the idea of Open Science most effectively.
- Instruct & inspire trainers how to create high quality & engaging trainings.
- Address challenges & give solutions.
- Bring together methods, techniques & practices.
- Include best practices, background information & exemplary training outlines.
- Present possibilities on how to organise trainings.
- Add checklists & glossaries.

PRACTICAL ADVICE FOR WRITING

- Use simple language.
- Write short texts.
- Structure chapters with subheadings & short paragraphs.
- You are writing the handbook together, feel confident to comment & everything.
- You are free to take notes in a separate tool or on paper, but our app that you just directly write in the collaborative tool and share your draft and first thoughts with your colleagues. This is how everyone can add ideas and the process gets truly collaborative.
- We have the unique chance to take the time and write a book together. Let's focus on writing during the day and try to move all other noises (emails, work, social media) to the evenings.
- Last but not least, it's your book you are the ones who decide.



A typical Open Science trainer



Name:

Age:

Occupation:

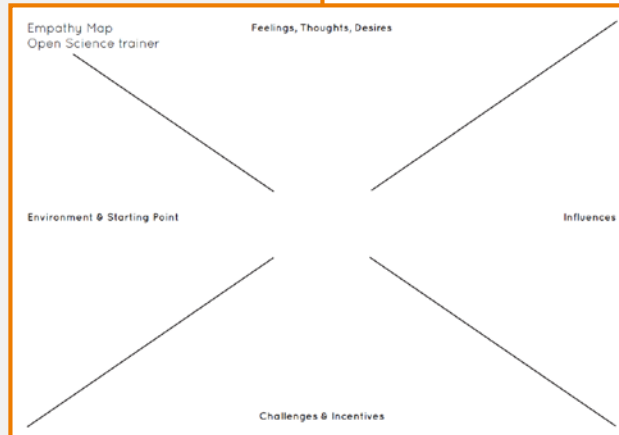
Background:



Journey Map
Planning Open Science training

Actions

Feelings



Das Open Science Training Handbook



- Autoren brachten Zeit, Wissen, Erfahrung, Schreibfertigkeit, Motivation & Ausdauer mit
- Innerhalb fünf Tagen wurde ein Buch geschrieben (mehr als 46.000 Wörter, und 300.000 Zeichen)



Das Open Science Training Handbook



Roadmap

- Schreiben des OSTHs - Feb. 2018
- Vorabversion verfügbar für Kommentare & Vorschläge - Feb. 2018
- Diskussion & Einarbeitung der Kommentare - März 2018
- GitHub
- Veröffentlichung der Version 1.0 als Gitbook - April 2018

- Aktuell:
 - *Living Book* offen für weitere Beiträge und Übersetzungen

OSTH - Struktur



- Introduction
- **Open Science Basics**
 - Open Concepts & Principles
 - Open Research Data & Materials
 - Open Research Software & Open Source
 - Reproducible Research & Data Analysis
 - Open Access to Published Research Results
 - Open Licensing & File Formats
 - Collaborative Platforms
 - Open Peer Review, Metrics & Evaluation
- Open Science Policies
- Citizen Science
- Open Education Resources
- Open Advocacy
- **On Learning & Training**
- **Organizational Aspects**
- **Examples & Practical Guidance**
- Glossary
- References
- About the Authors & Facilitators

Open Science Training Handbook



- DOI: doi.org/10.5281/zenodo.1212496
- CC 0 Lizenz für einfache Nachnutzung

Type to search

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

On Learning and Training

An orange line-art illustration of a paint palette with several colored spots and a pencil resting on it.

The Open Science Training Handbook

A group of fourteen authors came together in February 2018 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 pedagogies. 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.

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

An orange line-art illustration of a microscope.

Open Science Basics

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.

book.fosteropenscience.eu

Nutzung & Impact

- Review:
 - Kommentare von 70 Pers.
- Stand Mai 2018:
 - Page views: 8821
 - Unique visitors: 2591
 - Downloads: 376
- Initiierte Übersetzungen:
 - Spanisch
 - Griechisch
 - Portugiesisch



Countries		
Site	Views	Unique visitors
Germany	2.326	386
United States	1.493	519
United Kingdom	734	222
Netherlands	517	94
Portugal	379	105
France	308	102
Spain	244	93
Belgium	200	34
Czech Republic	189	76
Austria	186	28
Italy	174	73
Switzerland	132	44
Canada	129	64
Japan	101	65
Greece	92	34

[Show 5 more \(80\)](#)

Vielen Dank!



@fosterscience

www.fosteropenscience.eu

www.book.fosteropenscience.eu



@helenebrinken

Helene Brinken

SUB Göttingen

brinken@sub.uni-goettingen.de

Lambert Heller

TIB Hannover

lambert.heller@tib.eu



@lambo



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 741839

