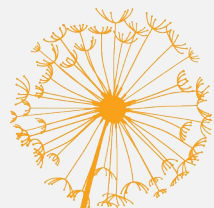




Open Science Trainer Bootcamp

November 1, 2018, Riga, Latvia

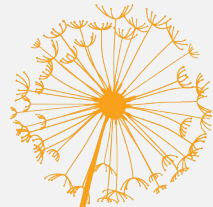




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Introductions





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What we'll be doing today

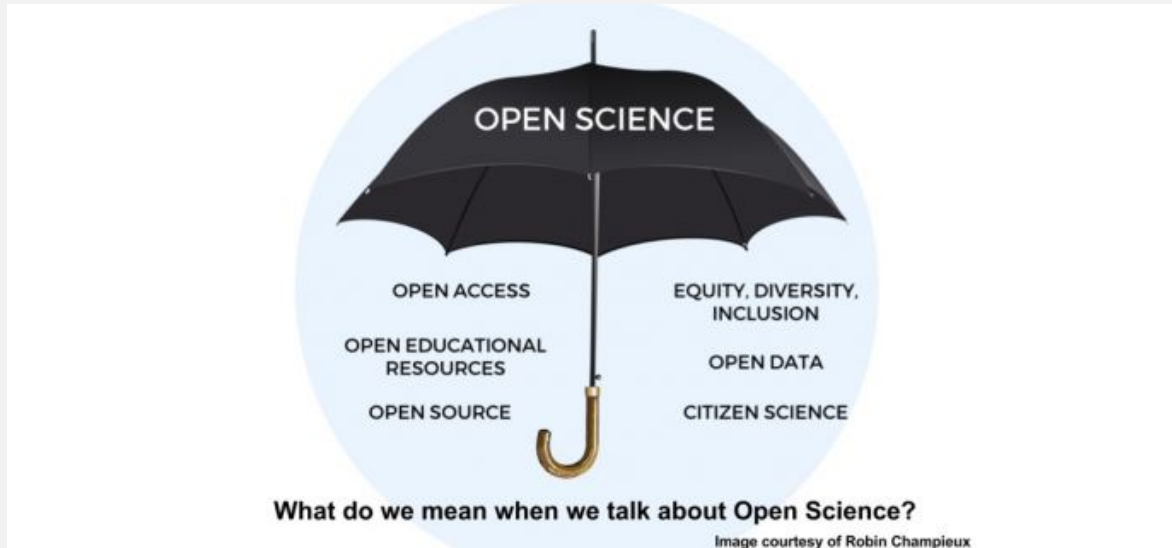


- Setting the scene
- Who is your audience?
- Identify their training needs
- Identify learning objectives
- Explore different formats
- Design and evaluate your own mini-training
- Troubleshooting

This is not an Open Science Training!



What IS Open Science?



What is your role as trainer?

Why do you want to give Open Science
Training?

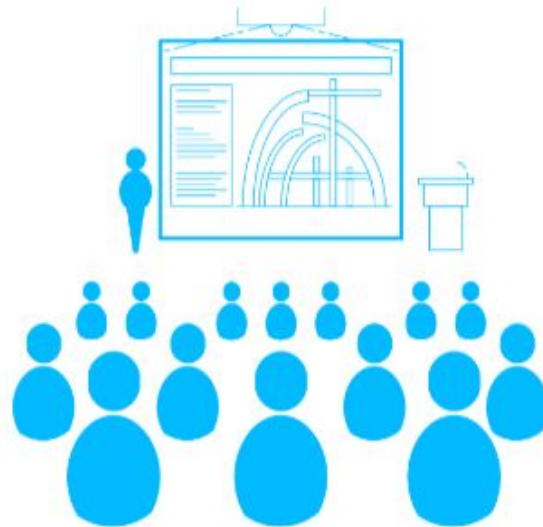
Who is your audience?

How can you reach them most
effectively?

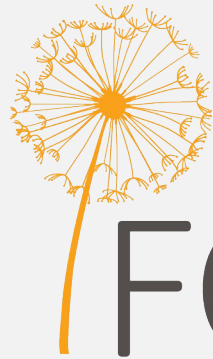
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i

eifl KNOWLEDGE
WITHOUT
BOUNDARIES



Open Science Training



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**Training examples & practical
guidance**



Open Science Training Handbook



Further resources



Questions,
obstacles, &
common
misconceptions



Key components:
Knowledge & skills



Learning objectives
to achieve

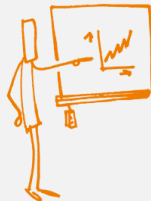


Why is it important?



What is it?

On Learning and Training



How to

- **Prepare** your workshop
 - Theoretical learning strategies
 - Different audiences
 - Strategies to develop motivation
- **Execute** your workshop
 - How to design a course
 - How to choose content
 - How to start training
- **& reflect** on your workshop
 - Aspects to evaluate

Organisational Aspects



- Venue
 - Timing & budget
 - Equipment & media
 - Marketing & advertising strategy
 - Registration
 - Evaluation
- Check list



Example training outlines



•24 exercises:

- Format, time needed, topic, learning objectives, description, materials needed, level of prior knowledge, how to adapt

•Open Science Café

- Enable low-threshold discussion and dialogue between different stakeholders

Open Science Café

Brought to you by:



Scientific publishing will always be dominated by commercial publishing houses.

Open data should be a responsibility of the institution, not of the individual researcher.

When assessing quality of research, 'openness' should be as big a factor as journal prestige.

Data sharing is more important than Open Access to publications.



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www.fosteropenscience.eu/content/organise-our-own-open-science-cafe

Open Science Basics



Open Concepts & Principles



Open Access to
Published Research
Results



Open Science
Policies



Open Licensing &
File Formats



Open Research Data
& Materials



Open Peer Review,
Metrics & Evaluation



Reproducible
Research & Data
Analysis



Open Research
Software & Open
Source



Open Education
Resources

Recommendations on Open Science Training

July 20, 2018

Project deliverable Open Access

539

views

180

downloads

See more details...

25

Tweeted by 38

See more details

Indexed in

OpenAIRE

Publication date:

July 20, 2018

DOI:

DOI 10.5281/zenodo.1341023

Keyword(s):

open science training open science train-the-trainer

Grants:

European Commission

FOSTER Plus - Fostering the practical implementation of Open Science in European Research

Communities:

FOSTER, Facilitating Open Science in European Research

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Versions

Version 1.10.5281/zenodo.1341023 Jul 20, 2018

Recommendations on Open Science Training

Iryna Kuchma; FOSTER Plus consortium

Other(s)

Helene Brinken; José Carvalho; Antónia Correia; Eloy Rodríguez; Anna Schwickerath

Building on Open Science Training Handbook (available as gitbook at <https://book.fosteropenscience.eu/> and in the github repository at <https://github.com/Open-Science-Training-Handbook>), and on successes of over 40 online and face-to-face events that FOSTER organized in 2017-2018, this report provides good practice recommendations on open science training targeting researchers and multipliers – train-the-trainers approaches for research support staff and librarians. It includes the following:

- A selection of open science topics to include in your training activities;
- Useful tips on how to plan based on outcomes rather than objectives;
- Overview of types of training based on the audience size, funds available, duration of training and training levels;
- Organizational task checklist;
- Exercises and glossary;
- Overview of FOSTER training events for life science, social sciences and humanities and FOSTER open science clinic series of speed counselling for early career researchers, Tech Transfer and Grant Officers and National Contact Points for Horizon 2020;
- Recommendations on train-the-trainer approaches highlighting our experience from FOSTER open science trainer bootcamp and materials from two other train-the-trainer courses: ELIXIR EXCELERATE and Powering up your 2018 (data skills) from ANDS, Nectar and RDS.
- Roadmap for implementing open science training practices in research institutions suggesting six practical actions to be implemented by research institutions to support a cultural change towards open science.

Preview

Page: 1 of 33

Automatic Zoom

FOSTERING THE PRACTICAL IMPLEMENTATION OF OPEN SCIENCE IN HORIZON 2020 AND BEYOND – 741839

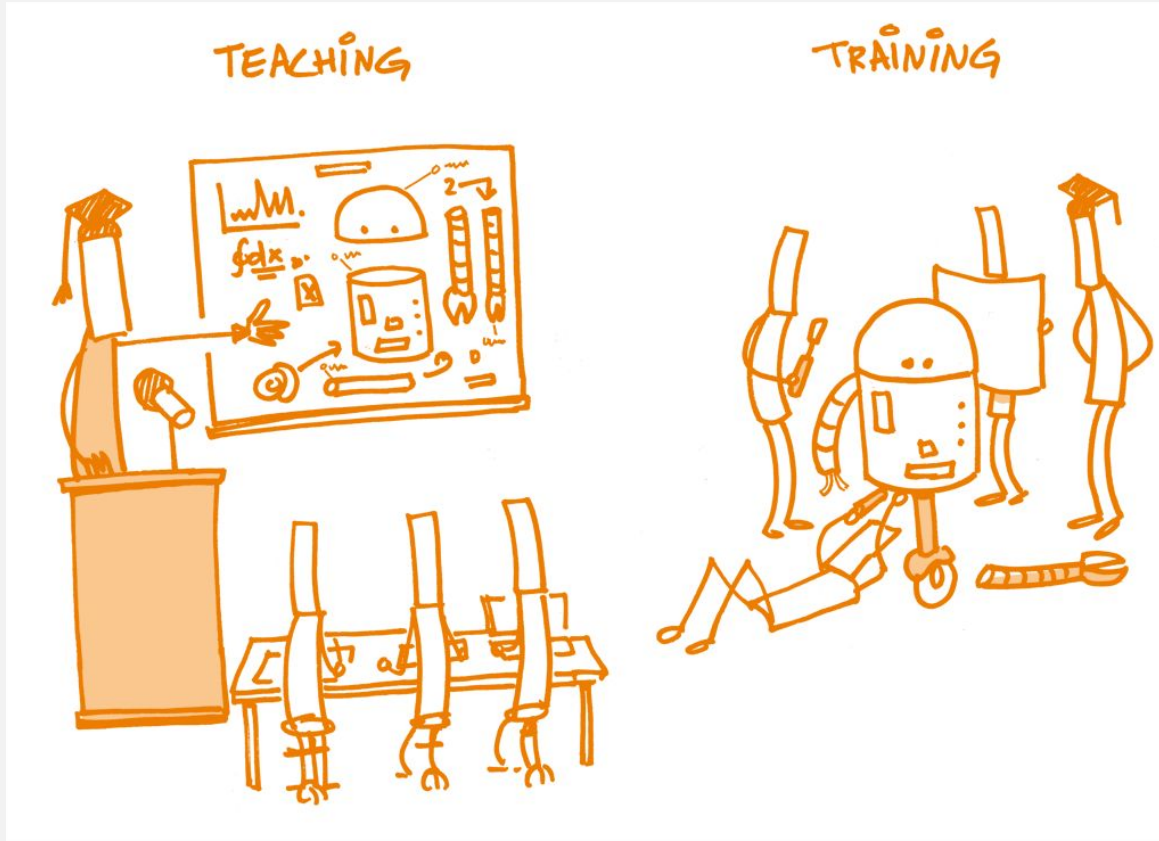
D3.2 –

Recommendations on

Open Science Training

<https://zenodo.org/record/1341023#.W9hkzfZoR1o>

Hands-on & interactive



Homo
Ludens:
Man is
playful



Homo
Ludens:
Man is
playful



Homo Ludens: Man is playful



Homo
Ludens:
Man is
playful



Homo
Ludens:
Man is
playful



Share your
experiences!

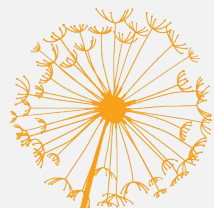
Group discussion:

What was the best training you attended?

What was the worst training you attended?

⇒ What did all of them have in common?

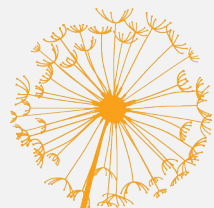
⇒ What parts of it were predictable?



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Open Elements in your training





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**Finding open materials and
understanding what you can and
cannot do with them**





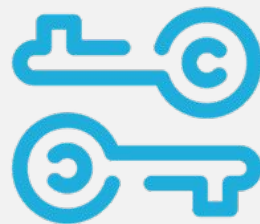
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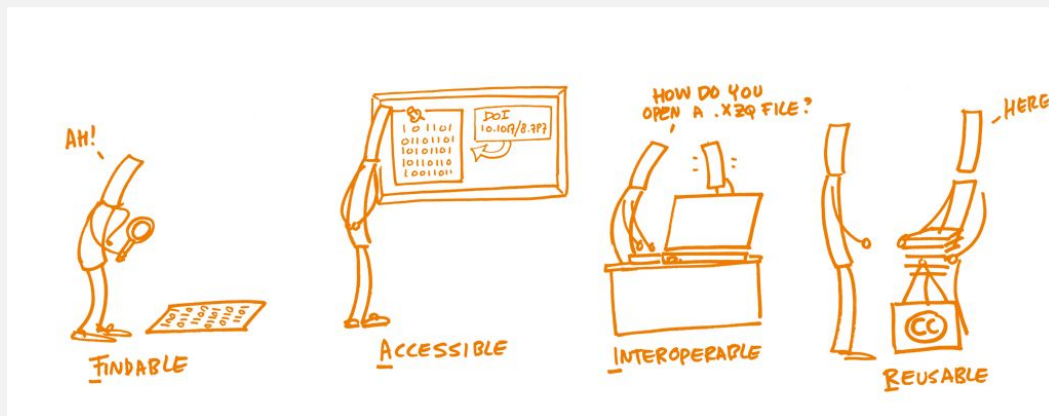
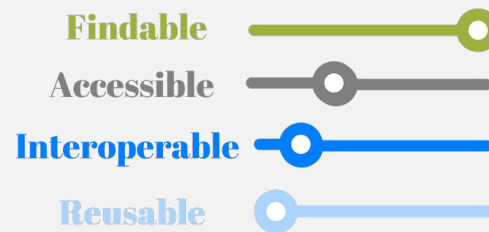
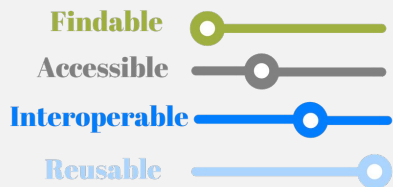


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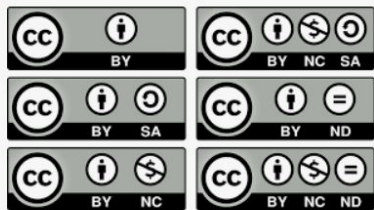
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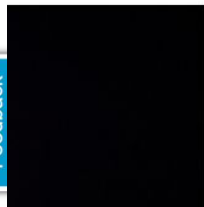
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Guidelines for supporting TDM at uni

By FutureTDM

Publication year: 2017 | [Text And Data Mining](#) | [Open S](#)



Authors: FutureTDM

Publication year: 2017

Language: English (EN)

Level of knowledge: Introductory: aware of
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A stray kitten in [Rizal Park, Manila](#)

 **More details**

 [Kenny Louie](#) from Vancouver, Canada - [Chin up](#)

Stray cats seem to be common place in many Asian countries. Unregulated and left to their own devices strays can be found all over the place in the most unlikely places. This tiny cat was in the middle of Rizal Park in the heart of Manila on a late Saturday evening with thousands of people around. Its mother was no where in sight.

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 File: [Kitten in Rizal Park, Manila.jpg](#)

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Reusable Courses

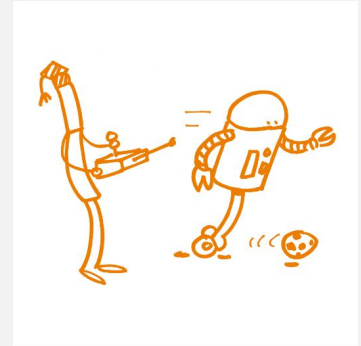
What is Open Science?	Best Practice in Open Research	Open Access Publishing	Open Peer Review	Sharing Preprints
				
Data Protection & Ethics	Open Source Software & Workflows	Managing & Sharing Research Data	Open Science & Innovation	Open Licensing
				

www.fosteropenscience.eu/toolkit

Open Science Courses



- Answering burning questions of researchers
- Where relevant, discipline specific examples (CRG, GESIS, DARIAH-EU)
- Interactive content (gamification, quizzes)
- Reviewed by community



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Badges



- 5 learning paths
- Effort 2-4 hours
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Learning paths

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Open science trainer's corner

Do you organise Open Science trainings yourself or are planning to do so? On this page you can find a set of materials that offer some inspiration or help you to get started in the first place. Take a look and adapt or re-use the resources for your own trainings.



The Open Science Training Handbook

This handbook brings together methods, techniques and practices, to support educators of Open Science to create high quality and engaging trainings. It is available under [Creative Commons Public Domain Dedication \(CC0 1.0 Universal\)](#). You do not have to ask our permission to re-use and copy information from this handbook.

- Access the Open Science training handbook [here](#).



Illustrations, icons & cartoons

<https://www.fosteropenscience.eu/trainers-materials>

During the book sprint the artist Patrick Hochstenbach draw more than 100 icons and cartoons to illustrate the Open Science training handbook. They are now for you available under [Creative Commons Public Domain Dedication \(CC0 1.0 Universal\)](#) to re-use.

- Download the large set of small icons such as a book, coffee, researcher, megaphone etc. here: Large ZIP archive of [PNG graphics](#) (1.5Mb)
- Download the 16 cartoons, e.g. fundamental rules of open science here: ZIP archive of [16 PNG illustrations](#) (15Mb)



<https://opensciencemooc.eu>

Welcome to the home of the Open Science MOOC!

This website provides information about our MOOC, its rationale, the current state of the project, and the people behind it.

This is a mission-driven project to help make 'Open' the default setting for all global research. We want to help create a welcoming and supporting community, with good tools, teachers, and role-models, and built upon a solid values-based foundation of freedom and equitable access to research.

Therefore, we see Open Science as a goal: broad adoption of good scientific practices as a fundamental and essential part of the research process.

A screenshot of a presentation slide titled 'Why Open Science'. The slide has a white background with black text. On the left, it says 'Science is not working as it should be'. On the right, there is a list of four bullet points, each preceded by a right-pointing arrow: 'Slow, wasteful, locked away', 'Ruled by commercial interests', 'Reproducibility crises', and 'Questionable research practices'. Below these, it says 'Closed science means people suffer'. In the bottom right corner, there is a logo for 'OPEN SCIENCE MOOC' with 'FREE | OPEN | LEARNING' underneath. In the bottom left corner, the text '@OpenScienceMOOC' is visible. The slide is shown within a presentation viewer window with a dark border and navigation controls.

Twitter

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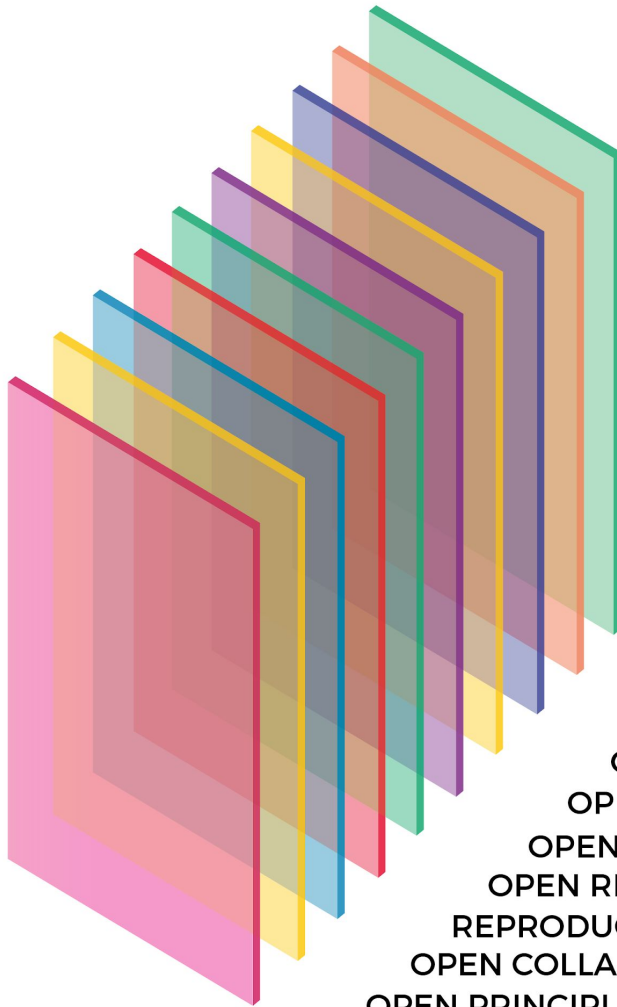
Tweets by @OpenScienceMOOC

-
- A screenshot of a Twitter feed. The top tweet is from 'Open Science MOOC' (@OpenScienceMOOC) and says 'Now also available via the @internetarchive! archive.org/details/OpenSc...'. Below it is a retweet from 'Jon Tennant' (@Protohedgehog) saying 'Now also available on Soundcloud too! soundcloud.com/open-science-m...'. The bottom tweet is another from 'Open Science MOOC' (@OpenScienceMOOC) saying 'The audio accompaniment to Module 5: Open Research Software and Open Source is now online! youtube.com/watch?v=XC5NmK... #OpenSource #OpenScience'. The tweets are displayed with their respective avatars, handles, and timestamps (15m, 1h).



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PUBLIC ENGAGEMENT WITH SCIENCE
OPEN EVALUATION
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"Materials from the ELIXIR webinar "How to get the most out of your microarray experiment", Feb 14, 2017

Keywords: life sciences, microarrays, eLearning, EeLP

Resource type: course materials, Training materials, Slides

elixirSLOVENIA

ELIXIR eLearning definitions

Materials from the asynchronous learning course "ELIXIR eLearning definitions"

Keywords: eLearning, training, EeLP

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Expert Tour Guide on Data Management

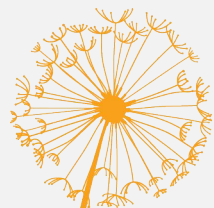


About this expert tour guide

This tour guide by CESSDA ERIC (the Consortium of European Social Science Data Archives European Infrastructure Consortium) aims to put social scientists like yourself at the heart of making their research data findable, understandable, sustainably accessible and reusable.

You will be guided by European experts who are - on a daily basis - busy ensuring long-term access to valuable social science datasets, available for discovery and reuse at one of the [17 CESSDA social science data archives](#). With this guide and the training events being held across Europe, we want to accompany and inspire you in your journey through the research data life cycle.

<https://www.cessda.eu/Research-Infrastructure/Training/Expert-Tour-Guide-on-Data-Management>

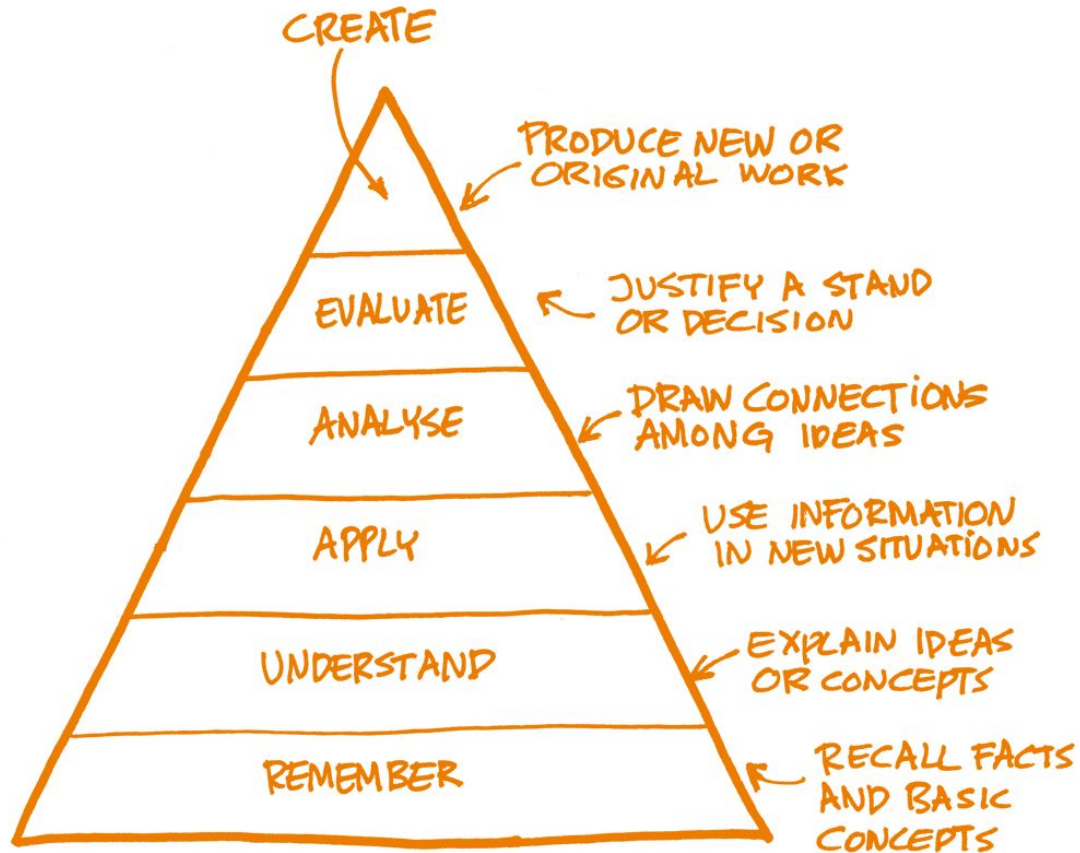


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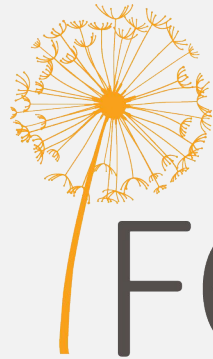
How to give training



BLOOM'S TAXONOMY



1. Adults are internally motivated and self-directed	<ul style="list-style-type: none"> • Graded learning -- increase complexity as the program unfolds • Lead the student toward inquiry -- before too many facts • Feedback -- regular, constructive and specific • Goals -- which they complete and "tick off" • Encourage use of resources • Vary learning styles (eg VARK)
2. Adults bring life experiences and knowledge to learning experiences	<ul style="list-style-type: none"> • Draw on experiences • Facilitate reflective learning opportunities
3. Adults are goal oriented	<ul style="list-style-type: none"> • Link learning to work goals • Provide real case-studies • Ask questions -- motivate reflection, inquiry and further research
4. Adults are relevancy oriented	<ul style="list-style-type: none"> • Reflection -- what they learnt, how to apply it • Provide some choice -- to reflect individual interests
5. Adults are practical	<p>Students move from classroom to hands-on problem solving where they can recognise firsthand how what they are learning applies to the work context.</p> <ul style="list-style-type: none"> • Be explicit -- about how learning is useful and applicable to the job • Active participation -- try things rather than observe
6. Adult learners like to be respected	<p>Respect can be demonstrated by:</p> <ul style="list-style-type: none"> • Acknowledge -- the wealth of experiences • Regarding them as an equal colleague • Encourage expression -- of ideas, reasoning and feedback
(7. Adults are pressed for time)	<p>(from Training Principles of Adult Learning White Paper)</p> <ul style="list-style-type: none"> • Just in time • Just for me



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**Plan based on outcomes
rather than objectives**



Learning objectives

- Describe the intentions of the instructor by stating **the purpose and goals** of the course.
- Focus on the **content and skills** important within the programme.
- May describe what the instructors will do.
- Should be **specific and detailed**.

Learning outcomes

Learning outcomes are statements that describe or list measurable and essential mastered content-knowledge – reflecting skills, competencies, and knowledge that trainees have achieved and can demonstrate upon successfully completing a course.

Learning outcomes (2)

Outcomes express higher-level thinking skills that integrate course content and activities and can be observed as a behavior, skill, or discrete usable knowledge upon completing the course.

Learning outcomes (3)

Outcomes are exactly what assessments are intended to show - specifically **what the trainees will be able to do upon completing the course.**

An assessable outcome can be displayed or observed and evaluated against criteria.

Outcomes are **clear and measurable criteria for guiding the teaching, learning, and assessment process in the course**

<https://www.fosteropenscience.eu/learning/what-is-open-science>

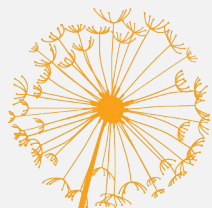
This introductory course will help you to understand what open science is and why it is something you should care about. You'll get to grips with the expectations of research funders and will learn how practising aspects of open science can benefit your career progression.

Upon completing this course, you will

- understand what Open Science means and why you should care about it
- be aware of some of the different ways to go about making your own research more open over the research lifecycle
- understand why funding bodies are in support of Open Science and what their basic requirements are
- be aware of the potential benefits of practicing open science

It's up to you ...

- in groups of 3 ...
- each pick an aspect of open science that interests you
- write it down
- think of a learning outcomes for training on your chosen aspect
- compare & discuss the results in your group



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**Your role as a trainer
(self-reflection)**



It's up to you ...

- In groups of 2 ...
- Look at the scenarios on your handout
- In each column, choose the one you'd be most and least comfortable with. Do this **individually**.
- Compare & discuss the results with your neighbour
- What makes certain scenarios easier or harder for each of you?

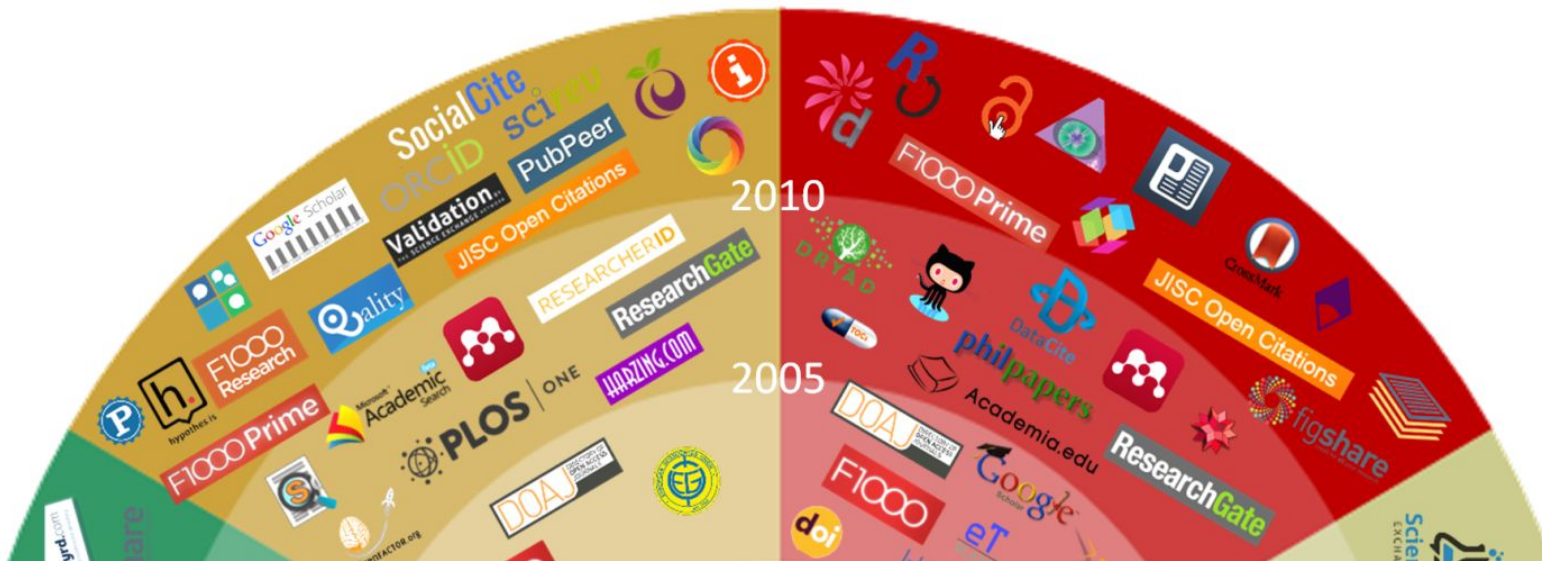
In both lists below mark the characteristic which would make you as a trainer feel the most (M) comfortable and the least (L) comfortable.

A session

- with participants not from your field
- with just undergraduates
- with 8 people sent by one employer and 2 others
- with just librarians
- with only professors
- with all participants paying a 300€ fee for 1 day
- with 50% researchers & 50% traditional publishers
- with people from all parts of the world

A session

- with people dropping in late and leaving suddenly
- where participants want to change the programme
- without internet
- where participants work with a self paced tutorial
- in a café instead of a classroom
- where the host introduces you as super OS expert
- where you are the only facilitator
- where the goal is to convince people of OS



With thanks to Bianca Kramer & Jeroen Bosman for exercises!

Aspects of Open Science training

available at: 10.6084/m9.figshare.6163790

Bianca Kramer & Jeroen Bosman, Utrecht University Library
FOSTER Open Science Bootcamp, April 18-20, 2018



(except logos)



@MsPhelps
@jeroenbosman

Finding a place for your training & messages in the competitive research landscape

- What methods do you, and could you, use to drive **attention** to your training activities?
- What methods do you, and could you, use to drive up **attendance** at your training activities - how can you turn REGISTRATION (i.e. interest) into ATTENDANCE (i.e. action)

https://docs.google.com/document/d/1ohUqqST7Q23styDULU6t25W2q7rvYpvbr_ZlsJxOfjA/edit

How do you know if you are making a difference?

How does your unit/department evaluate the efficacy & impact of training it provides to researchers & students? Table discussion.

https://docs.google.com/document/d/1ohUqqST7Q23styDULU6t25W2q7rvYpvr_ZlsJxOfjA/edit





Designing your own mini-training



Design your own training

FORMAT:
Half day workshop

TOPIC:
Choose (per 2)



AUDIENCE SIZE
AUDIENCE TYPE
KNOWLEDGE LEVEL










Create a PERSONA

BIO Occupation: Age: Education: Personality in 3 words:	SKILLS (1=none, 5 = very skilled) Job experience: 1 2 3 4 5 Open Science: 1 2 3 4 5 Training experience: 1 2 3 4 5 Technology: 1 2 3 4 5	
 Name:	MOTIVATION/GOALS	FRUSTRATION










Present your plans (15 mins):

- Structure
- Materials
- Exercise
- ...

Training Type

 Half day training	 Workshop (half day)	 Tutorial
 Online training course	 Workshop (full day)	 Webinar
 Lecture	 Workshop (multiple days)	 Other








Audience SIZE

 > 100 (live)	 > 50 (live)	 20-50 live
 > 100 (online)	 > 50 (online)	 20-50 (online)
 < 20	 < 10	 < 5

Audience TYPE

 Librarian	 PHD Student/Junior Researcher	 Project Coordinator
 Research Administration	 Senior Researcher	 Funder
 Repository Manager	 Citizen	 Other










Knowledge Level

 No prior knowledge	 Basic knowledge (aware of)	 Basic knowledge (practitioner)
 Advanced knowledge (practitioner)	 Advanced knowledge (trainer)	 Unknown
 Mixed		

Your audience

 BIO Occupation: Age: Education: Personality in 3 words:	 SKILLS (1=none, 5 = very skilled) Job experience: 1 2 3 4 5 Open Science 1 2 3 4 5 Training experience 1 2 3 4 5 Technology: 1 2 3 4 5	
 Name:	 MOTIVATION/GOALS	 FRUSTRATION

The Unpredictable: Audience Mood

 <p>Sceptical</p>	 <p>Quiet</p>	 <p>Uninterested</p>
 <p>Eager to learn</p>	 <p>Chaotic</p>	 <p>Do not understand you</p>
 <p>Ask many questions</p>	 <p>Hostile</p>	 <p>Agreeable</p>

The Unpredictable: External factors

 <p>Audience is checking e-mails</p>	 <p>No WIFI!</p>	 <p>Audience keeps looking at phone</p>
 <p>Disturbing noise</p>	 <p>Forgot something!</p>	 <p>One person dominates</p>
 <p>Sound issues</p>	 <p>Room temperature is uncomfortable</p>	 <p>Venue is not suitable</p>

Design your own training

Present your plans (15 mins):

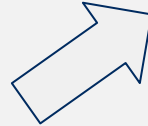
- Structure
- Materials
- Exercise
- ...



Troubleshooting:



AUDIENCE MOOD
DISTURBING FACTORS



EVALUATION

- Is the proposed training appropriate for audience size, type and level of knowledge?
- Are the training materials adequate, understandable and accessible?



Thank you! Questions?

Facebook: @fosteropenscience

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Youtube: [FOSTER Open Science](#)

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