adapted and extended from: Biohackathon 2022 FAIR community update and x-meeting FAIRification hackathon 2023

FAIR & OPEN

TRAINING

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CC BY

Cambridge Dictionary : fair

“What you expect
What you deserve”

FAIR principles

what do you think they mean ?

Findable:

Accessible:

Interoperable:

Reusable:



FAIR principles

what do you think they mean ?

Findable:

Shared in a findable platform
Human and Machine findable
Linked to metadata

Accessible:

Interoperable:

Reusable:

FAIR principles

what do you think they mean ?



Findable:



Accessible:

How to access (Download and use)
License or clear policy;
Authentication (when necessary)

Interoperable:

Reusable:



FAIR principles

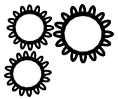
what do you think they mean ?



Findable:



Accessible:



Interoperable:

Integrated data
Interoperable in different resources
Ideally general format compatible with many resources.

Reusable:



FAIR principles

what do you think they mean ?



Findable:



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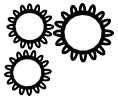


Interoperable:



Reusable:

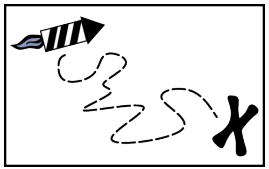
Can be used/shared
Can be manipulated/processed
Can be analysed

} as a whole or partially

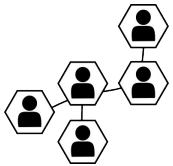


WHY TO GO FAIR ?

Improve access to all kinds of data;
Training material included



Framework for consistent sharing



Best practice with the community



Recognition of time and effort



FAIR principles

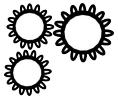
How do you translate for the TRAINING MATERIAL context?



Findable:



Accessible:



Interoperable:



Reusable:



FAIR principles

How do you translate for the TRAINING MATERIAL context?

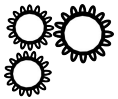


Findable:

- Registered training
- Assign Unique persistent ID
- Use schemas for machine findability



Accessible:



Interoperable:



Reusable:

FAIR principles

How do you translate for the TRAINING MATERIAL context?



Findable:

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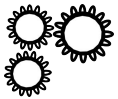
Accessible:

- Define access rules (license)
- Annotate your training material
- Make metadata available



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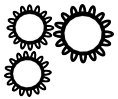

Interoperable:

- Can be used in different OS
- Possibility to edit and re-use
- Integrate in other resources



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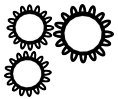
Bioschemas



Interoperable:

- Can be used in different OS
- Possibility to edit and re-use
- Integrate in other resources

SVG

* preferable

Per release
(github, e-learnings,etc ...)



Reusable:

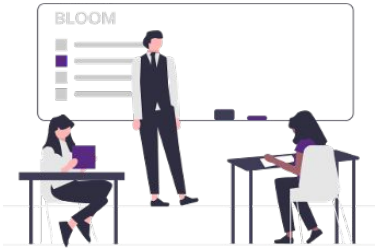
- Can be used/shared
- Can be modified

FAIR

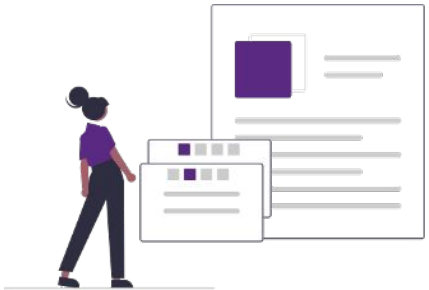
- As a whole
- Partially

It applies to:

- Training events & Conferences



- Training material & Conferences presentations (if shared)



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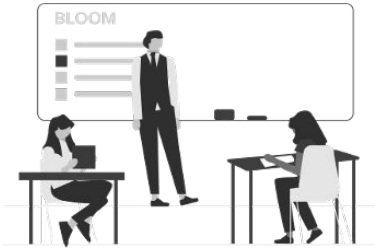

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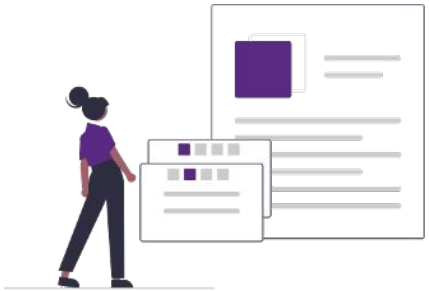

  - Presentations
  - Documents
    (Syllabus, lesson plan)
  - Text
  - Etc ...

10 RULES FOR FAIR TRAINING

main goal



Image: 10 simple rules for making training materials FAIR

HOW DO I SHARE

Make it findable

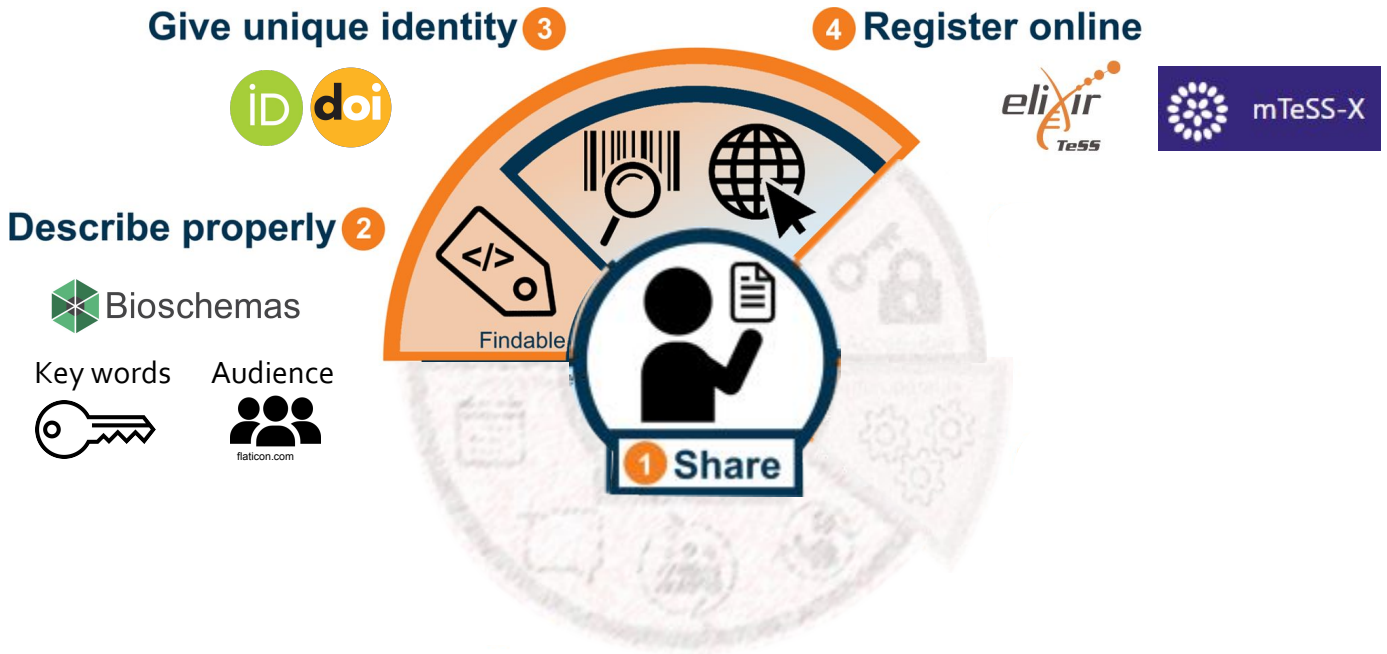

Image: 10 simple rules for making training materials FAIR

HOW DO I SHARE

Make it findable

2

Describe properly

- Standard metadata annotation

Key words



Audience



flaticon.com

Schemas.org



By Three Musketeers - Freepik

HOW DO I SHARE

Make it findable

2 Describe properly

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flaticon.com

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3 Give unique ID

- Unique & Persistent (PID)

DOI
(digital object identifier)

ORCID
(open research and contributor ID)

PURL
(persistent uniform resource locator)

HOW DO I SHARE

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4 Register online

- Events
- Material
- Learning paths

HOW DO I SHARE

Make it accessible



5 Define access rules

Image: 10 simple rules for making training materials FAIR

HOW DO I SHARE

Make it accessible

Define access rules

- License
- Clear policy
- Statement of use
  - No authentication
  - Request Authentication
    e.g. mail
  - Payment required





10 RULES FOR FAIRS TRAINING

Make it interoperable



6 Use interoperable format

* preferable

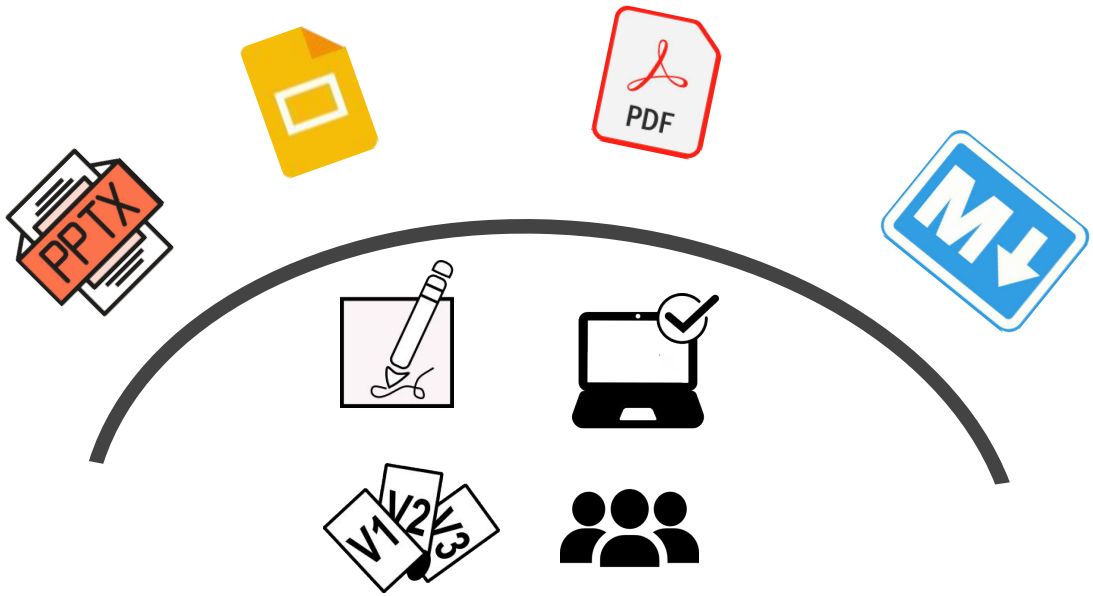
HOW DO I SHARE

Make it interoperable

Mind the Format

- Used in different contexts
- (Re)-use
  - Fine-tune
  - Extend
  - Edit

- Text material
- Presentations
- Videos



HOW DO I SHARE

Make it Reusable



Image: 10 simple rules for making training materials FAIR

HOW DO I SHARE

Make it Reusable

7 / 8

Make reusable

License specifications for (re)-use

- Annotations
- Learning outcomes
- Prerequisites
- etc...

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Annotation of:

- Audience
- Level
- Prerequisites
- Key words
- Version
- Authors
- Etc...

Annotate your slides

- Slides need to be understandable without your presence

HOW DO I SHARE

Make it Reusable

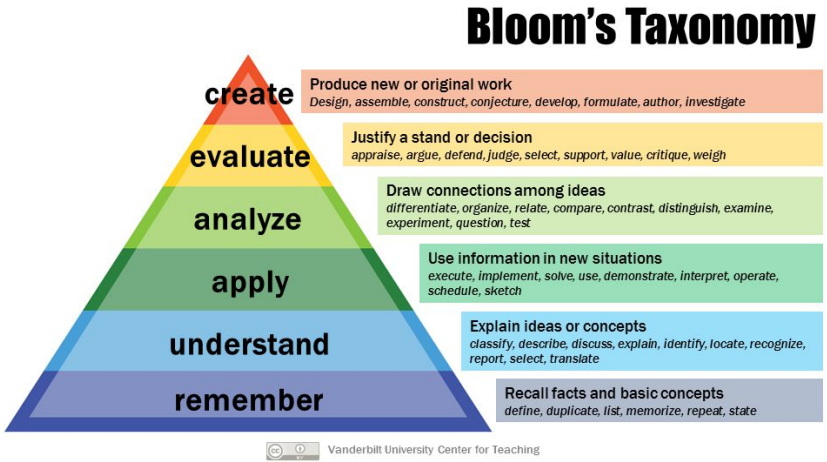
7 / 8

Make reusable

License specifications for (re)-use

- Annotations
- Learning outcomes
- Prerequisites
- etc...

Include the Learning outcomes



HOW DO I SHARE

Make it Reusable

7 / 8 Make reusable

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9 Welcome contributions

Collaboration file

GitHub as collaborative tools

Acknowledgments & recognitions

HOW DO I SHARE

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7 / 8 Make reusable

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Acknowledgments & recognitions

10 Keep up to date



- Trends
- Features
- Resources version
- Etc ...

OPEN data & OPEN training material

- Open and transparent access broad public
- Aiming reproducibility and re-use



Freepik.com

Freepik.com

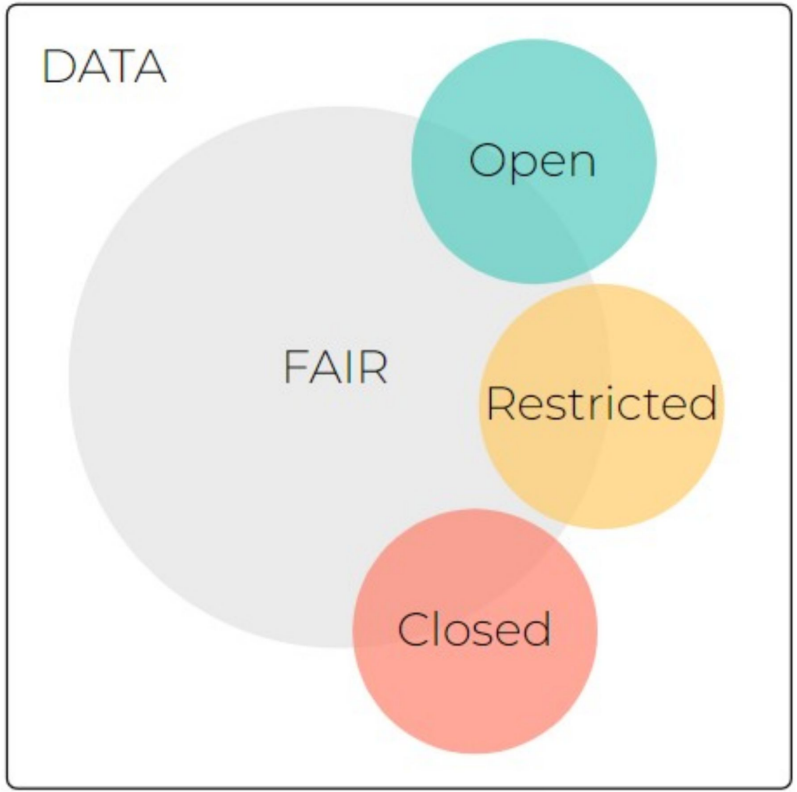
OPEN = FAIR

?



NO

NO



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    e.g. mail
  - Payment required



Rawpixel.com
Freepik.com

> “as open as possible and
>
> as close as necessary.”
>
> - Author unknown-

FAIR *by design*: Start your project

Final goal:
Have one mini-material that is FAIR
Create 3 min training session

Tasks:

1. Define the Topic and Title ✅
2. Write a syllabus ✅
3. Choose where to host your training ✅
4. Choose the material format and prepare the material ✅
5. Include acknowledgements (people, resources) ✅
   Choose a license ✅
6. Experience FAIR video ✅
7. Annotate metadata ✅
8. Assign unique identifiers ✅
9. Present conclusions *

FAIR *by design*: Start your project

Final goal:

Have one mini-material that is FAIR

Create 3 min training session

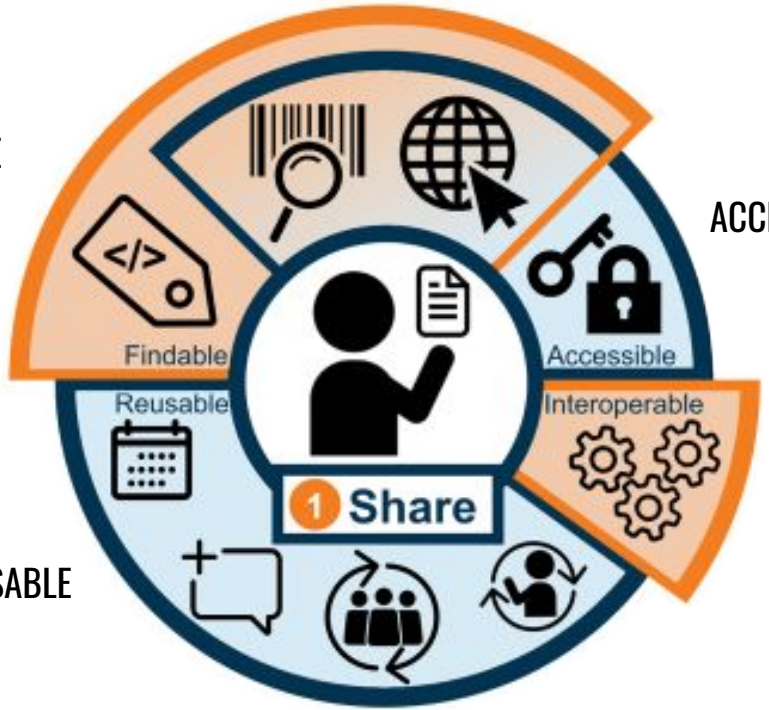
Tasks:

9. **Present conclusions ***
    - **Which aspects of the FAIR principles**
        - **can be observed in your training material**
        - **Were more easy and difficult to apply**
        - **Could not be applied and why**
        - **Any comments you want to add**

LET'S GET STARTED

FINDABLE

ACCESSIBLE



INTEROPERABLE

REUSABLE

Image: 10 simple rules for making training materials FAIR