

## **WHY: Organize Digital files**

- Requirements.
  - Research Data Policy
  - OSU Records Retention
  - Outside funders
- Research Integrity
- It costs time and money to lose files and data.
- · It is easier to
  - build on previous work
  - Share for future use



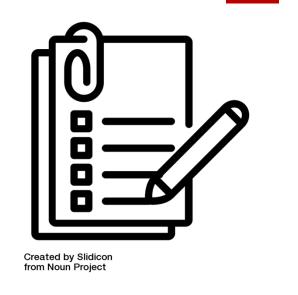
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## Steps to data organization

- 1. Inventory
- 2. Categorize
- 3. Prioritize
- 4. Name consistently
- 5. Document
- 6. Save and Backup
- 7. Assign responsibility



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## **Inventory – Things to think about**

- Current location
- Access
- Retention
- File type
- File size
- Security requirements

https://cybersecurity.osu.edu/user/login?destination=idp-calculator



Photo by Scott Graham on Unsplash

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### Categorize

- Start with inventory do natural groups emerge?
- Data, maps, background or administrative information
- Disposition date or How long does data need to be kept?
- Needs of final storage



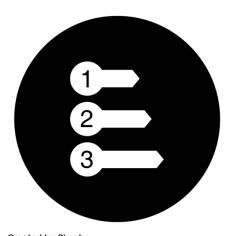
https://www.flickr.com/photos/ourunitedvillages/

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#### **Prioritize**

- Accept that you probably can't (and shouldn't') keep everything
- High value versus Low Value data
- Funder or other requirements - Data Management Plan?



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## **File Naming**

- · Pick something and stick to it!
- · Keep it simple but descriptive
- Avoid spaces, and special characters .\ / \$ # @.
- Use \_ TitleCase
- Document
- For more info:

https://library.osu.edu/sites/default/files/2019-12/file-naming-quidelines-20160120.pdf

https://guides.osu.edu/c.php?g=707751&p=5027410

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#### **Document**

Anything that will help you or others find and understand your data in the future.

### Could include

- Data Dictionary / Codebook
- · File naming schema
- · Protocols and Methods
- Project information

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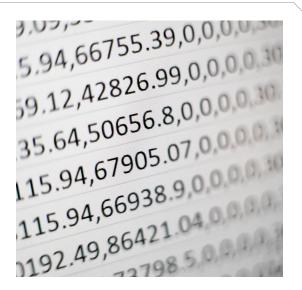


Photo by Mika Baumeister on Unsplash

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#### Document with readme.txt files

- You are writing for future users of the data. Which could be you!
- 45 minutes of your time can save future you or others HOURS.
- · Who, What, When, Where, How
- Use a .txt format
- **MORE HELP**
- https://data.research.cornell.edu/content/readme
- https://datamanagement.hms.harvard.edu/collect/r eadme-files



12/12/1995 4:21 PM WB2 File 12/12/1995 4:22 PM WB2 File WB2 File

PO-13B.WB2 PO-13C.WB2 11/9/2000 3:03 PM

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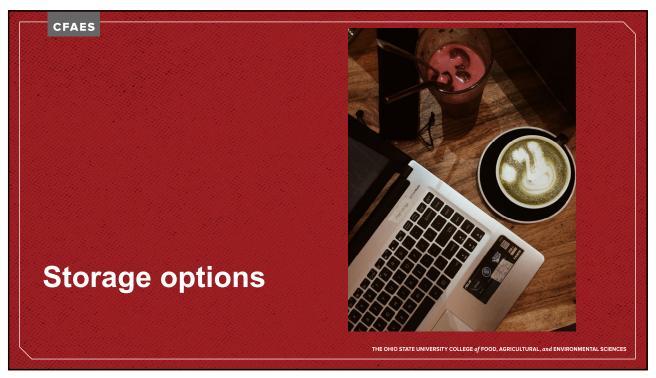
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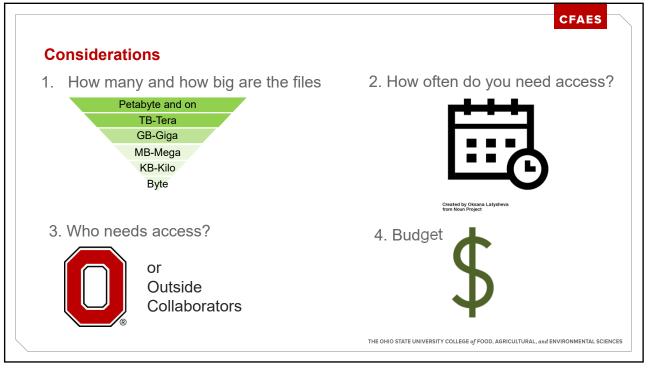
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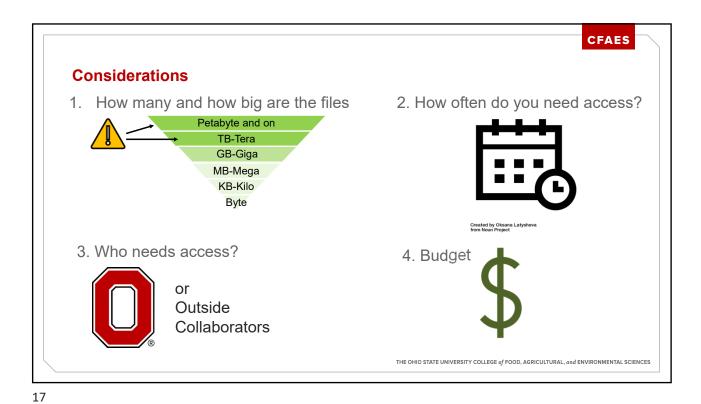
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**Active Projects** 

- Centers will often provide storage for data while you are working on the data ex. The Supercomputer Center
- Lab Archive https://teaching.resources.osu.edu/toolsets/labarchives
- Microsoft OneDrive
- Microsoft Teams
- Open Science Framework https://osf.io/ Non OSU

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# Other OSU storage options

- Amazon Web Storage (AWS) https://it.osu.edu/ohio-state-amazon-web-services
- Other IT Solutions https://cfaesits.osu.edu/it-service-desk
- Try to avoid this:



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# **OSU Data Storage at a glance**

	File Size	Max Storage	Data Security	Cost
LabArchives	250 MB increasing to 4GB	1 TB /Notebook multiple notebooks allowed	S1-S3	Free with OSU Account
OneDrive	100 GB	5 TB for personal files	S1-S3 some S4	Free with OSU Account
Teams	100 GB	25 TB for groups	S1-S3 some S4	Free with OSU Account
OSU AWS	Can handle large files and storage amounts – you will just pay more		Up to S4 Depends on product	Varies (\$0.02-0.004 / GB) BUT access fees can add up

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## **Completed Projects - Repositories**

**Ohio State** 

Dryad – <a href="https://datadryad.org/stash/">https://datadryad.org/stash/</a>

Knowledge Bank institutional repository <a href="https://kb.osu.edu/">https://kb.osu.edu/</a>

NEW > OSU Data Commons 2.0 (beta)

https://datacommons.tdai.osu.edu/

USDA AG-Data Commons - https://data.nal.usda.gov/

NIH - <a href="https://osp.od.nih.gov/scientific-sharing/data-repositories-and-trusted-partners/">https://osp.od.nih.gov/scientific-sharing/data-repositories-and-trusted-partners/</a>

NSF- https://catalog.data.gov/organization/nsf-gov

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