

Research Data Management

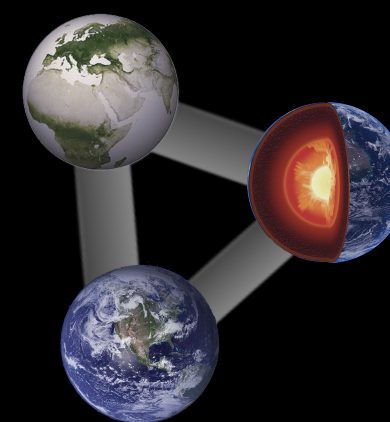
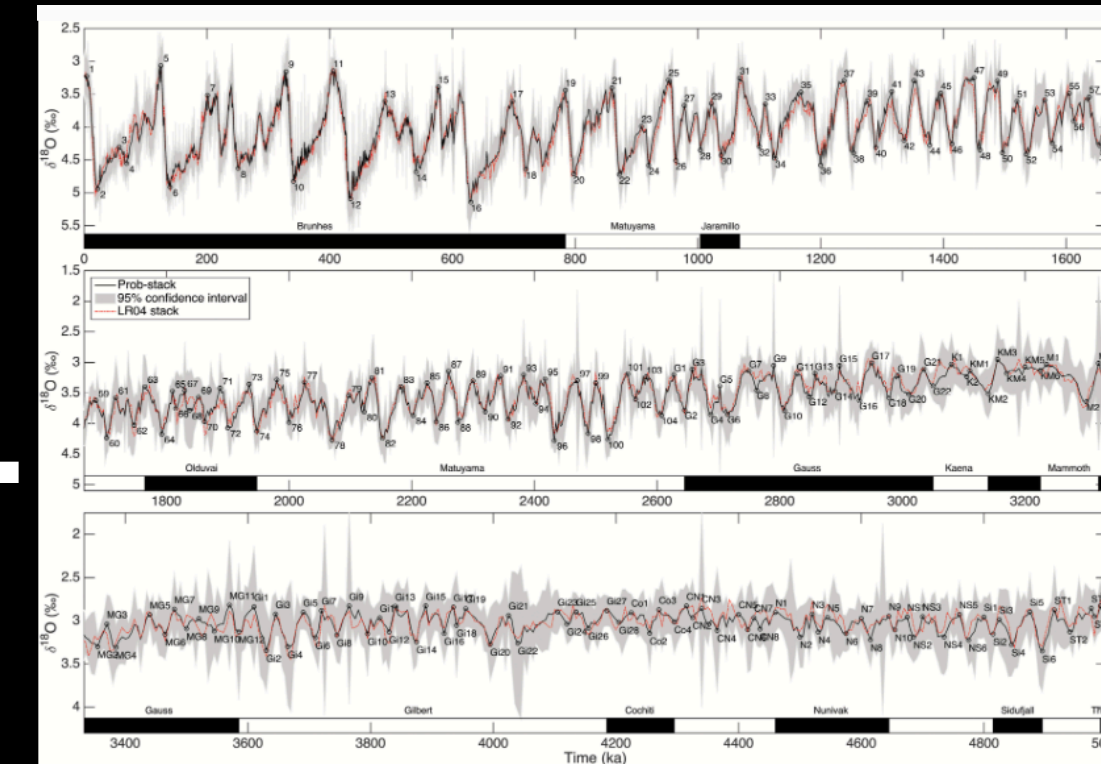
Deborah Khider



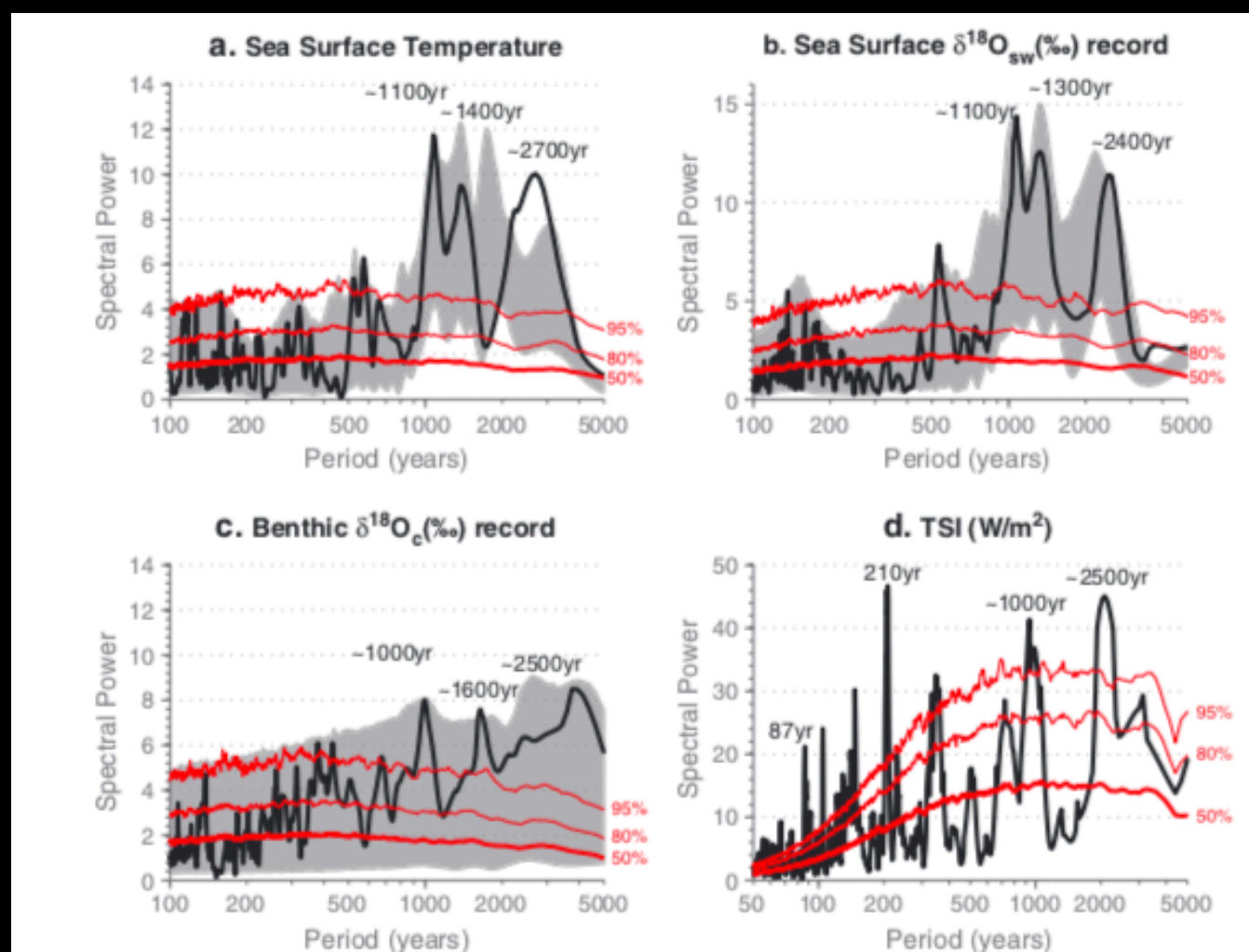
USC

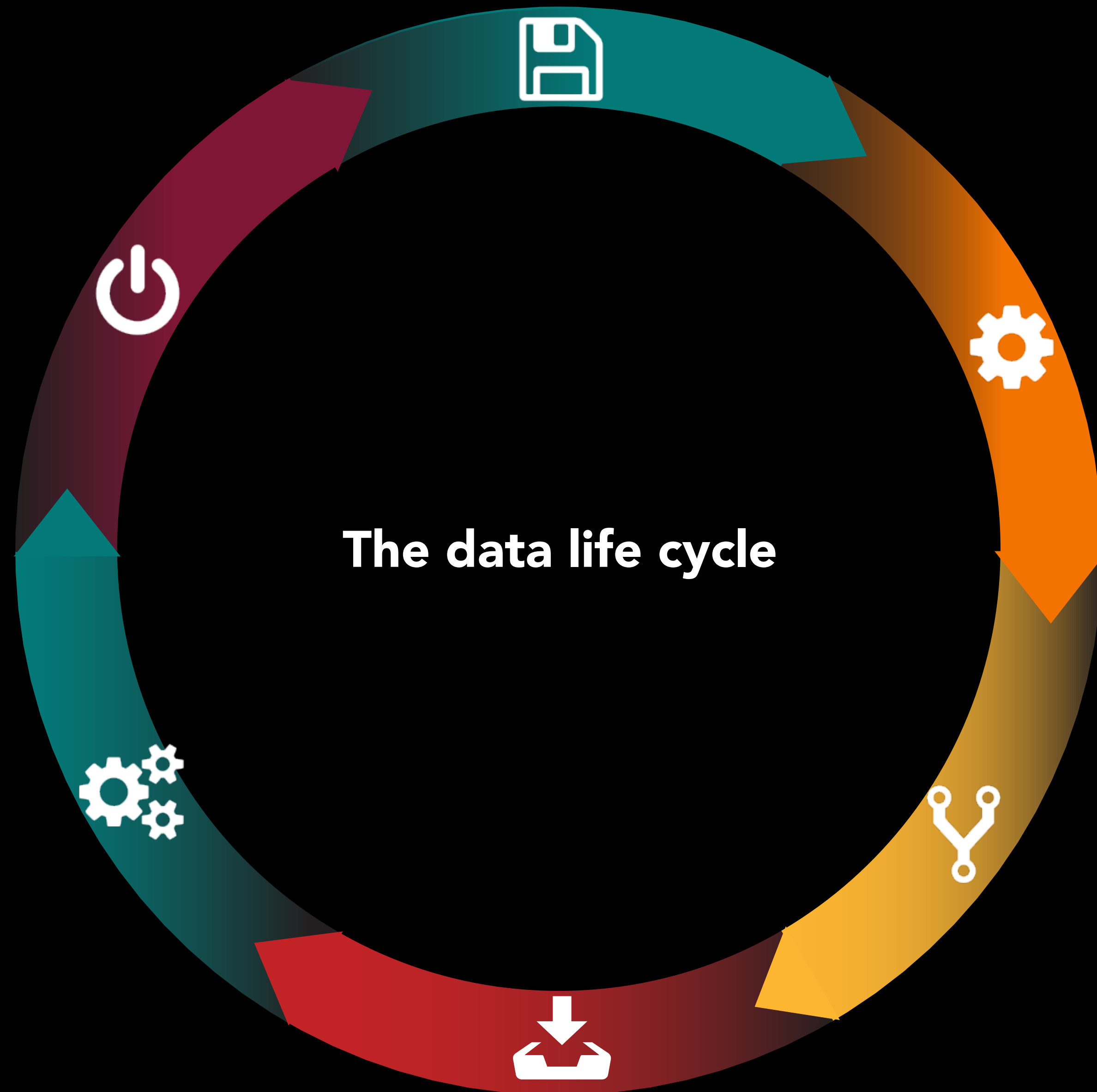


My Data Journey

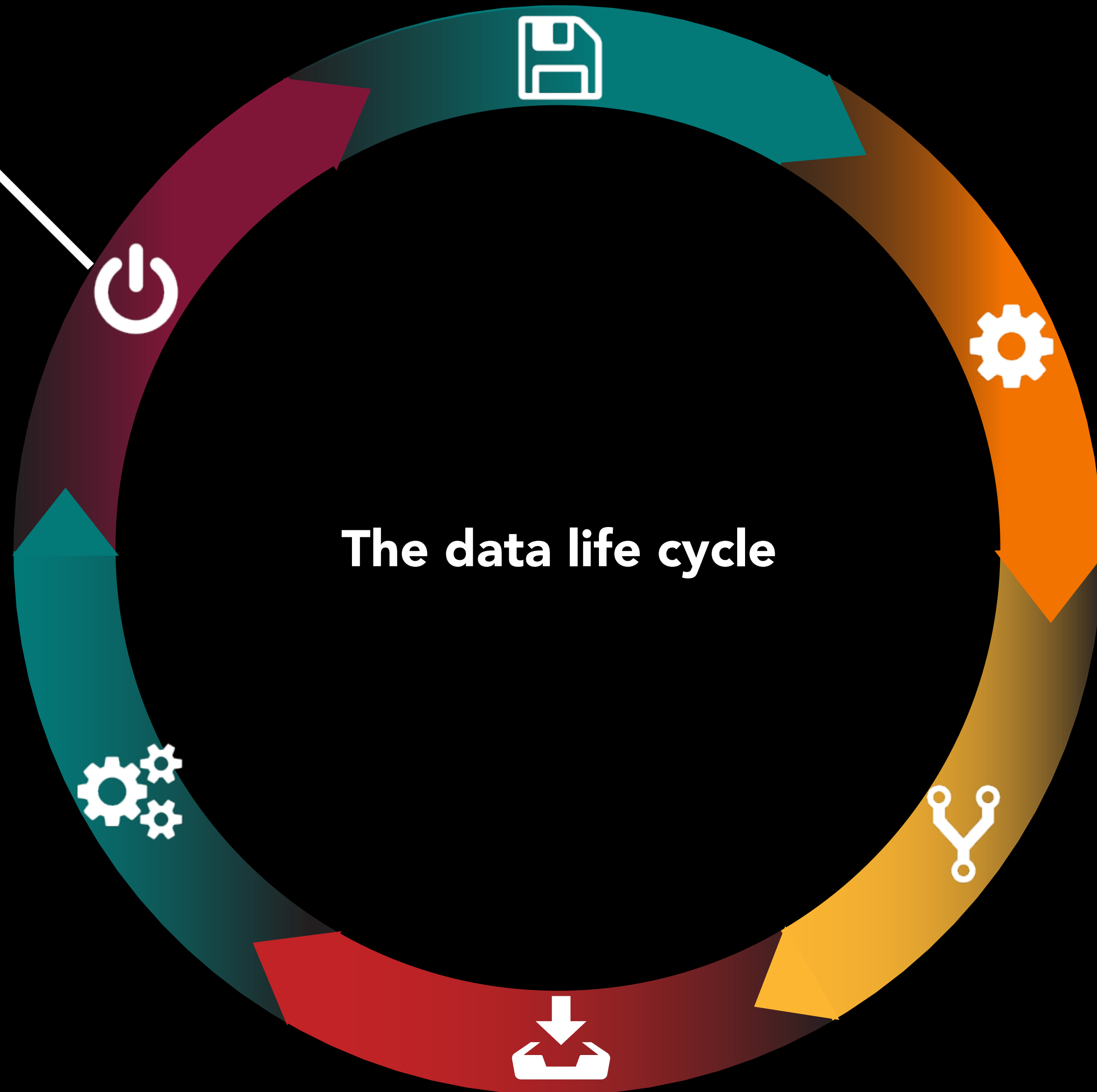


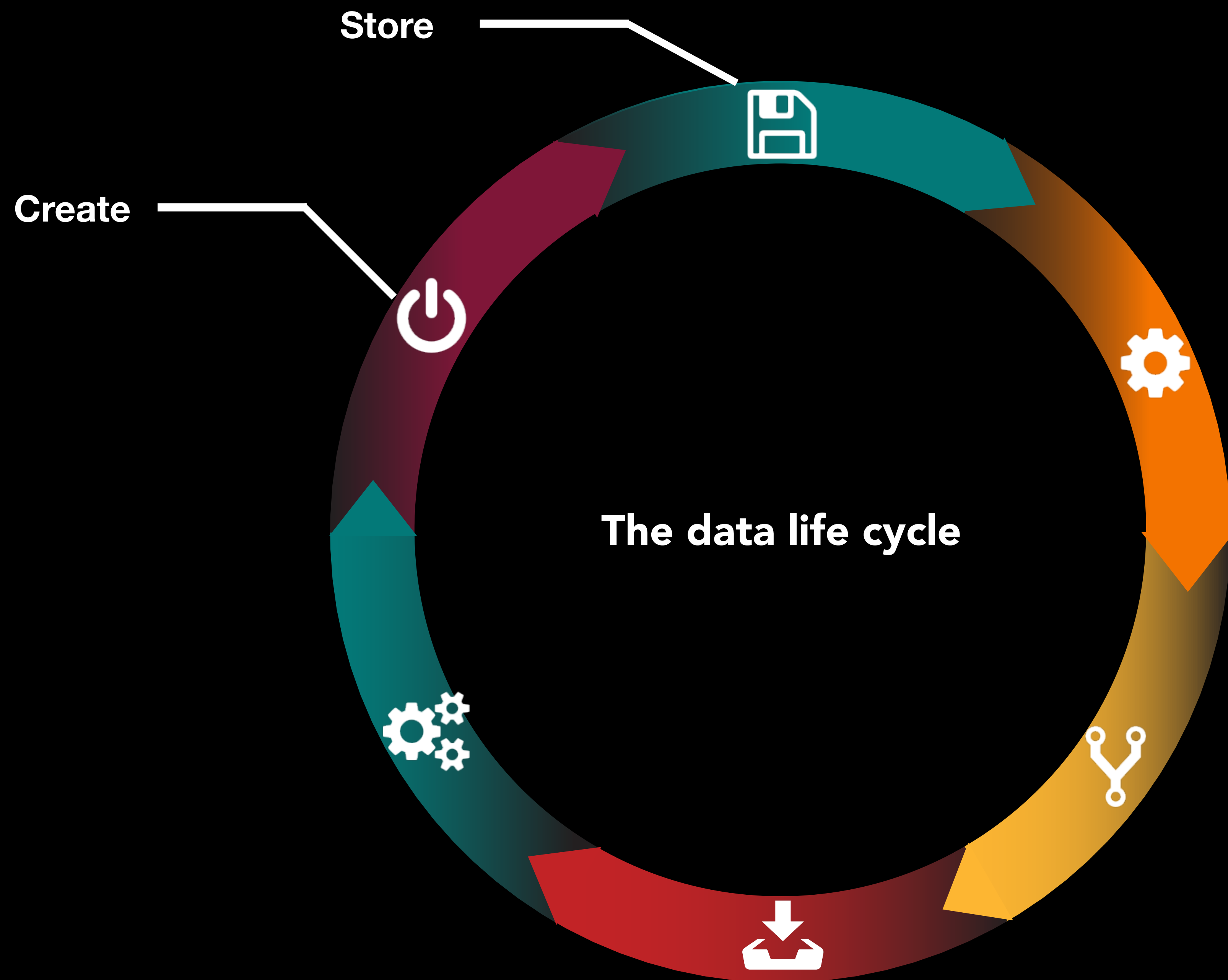
LinkedEarth

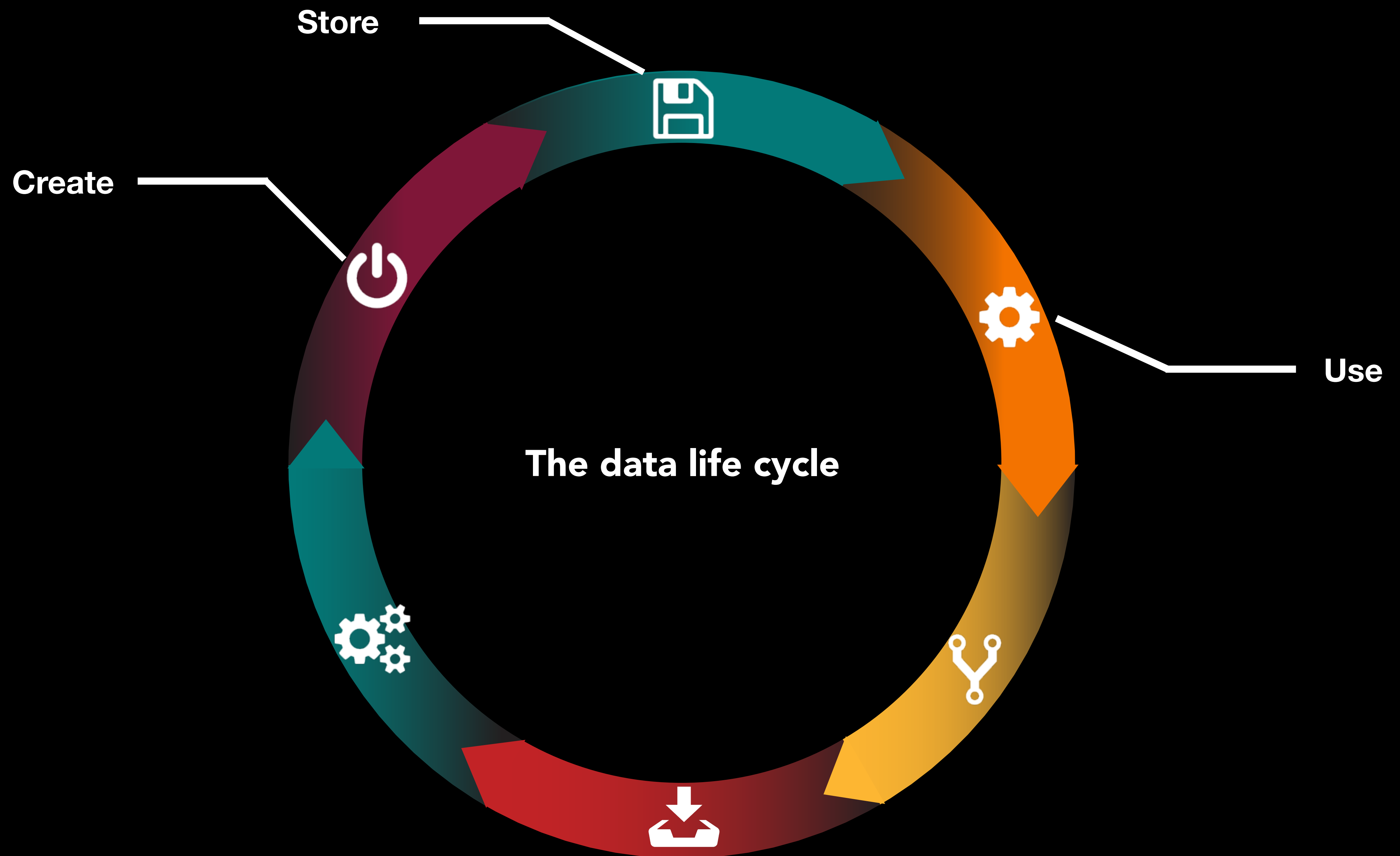


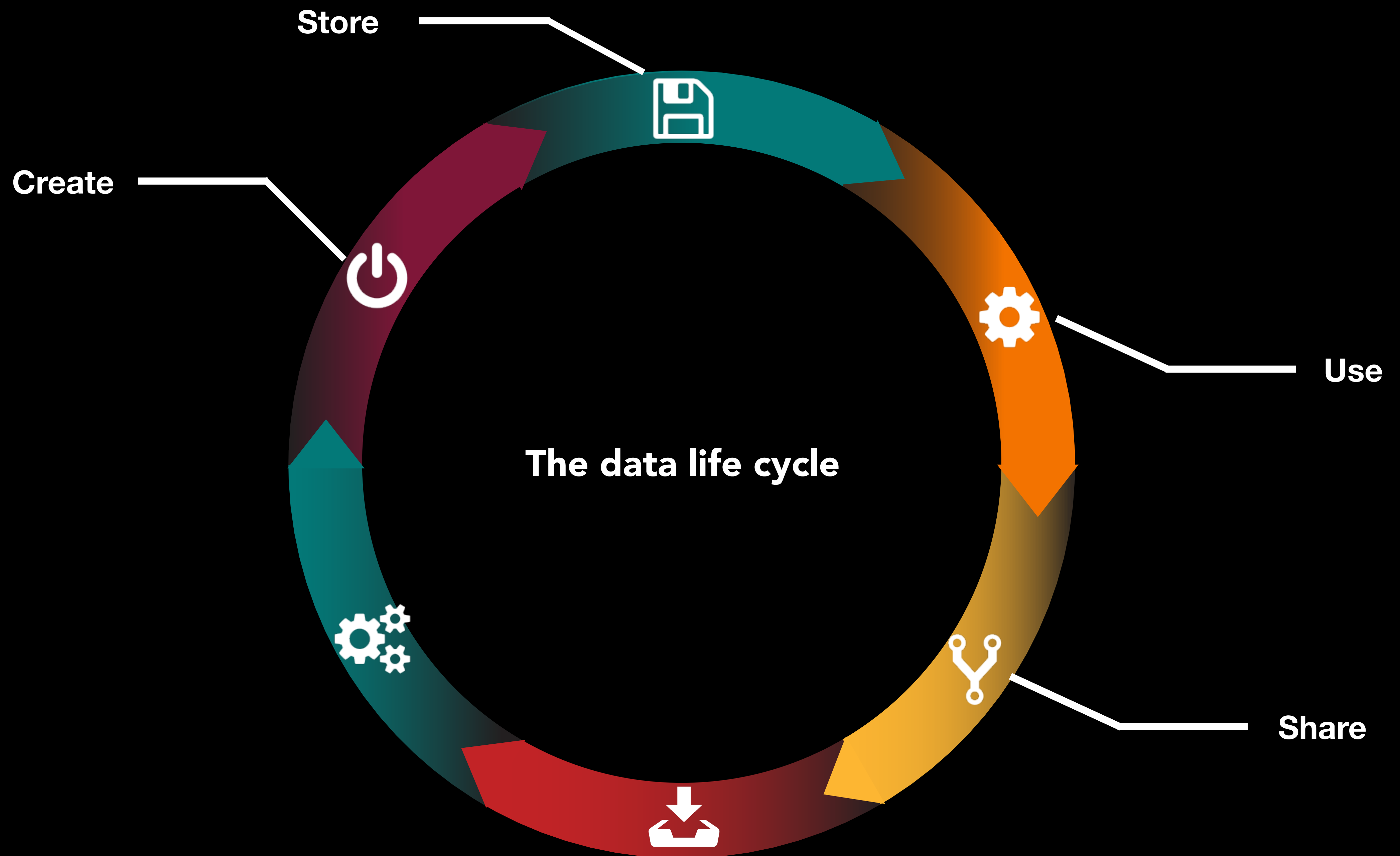


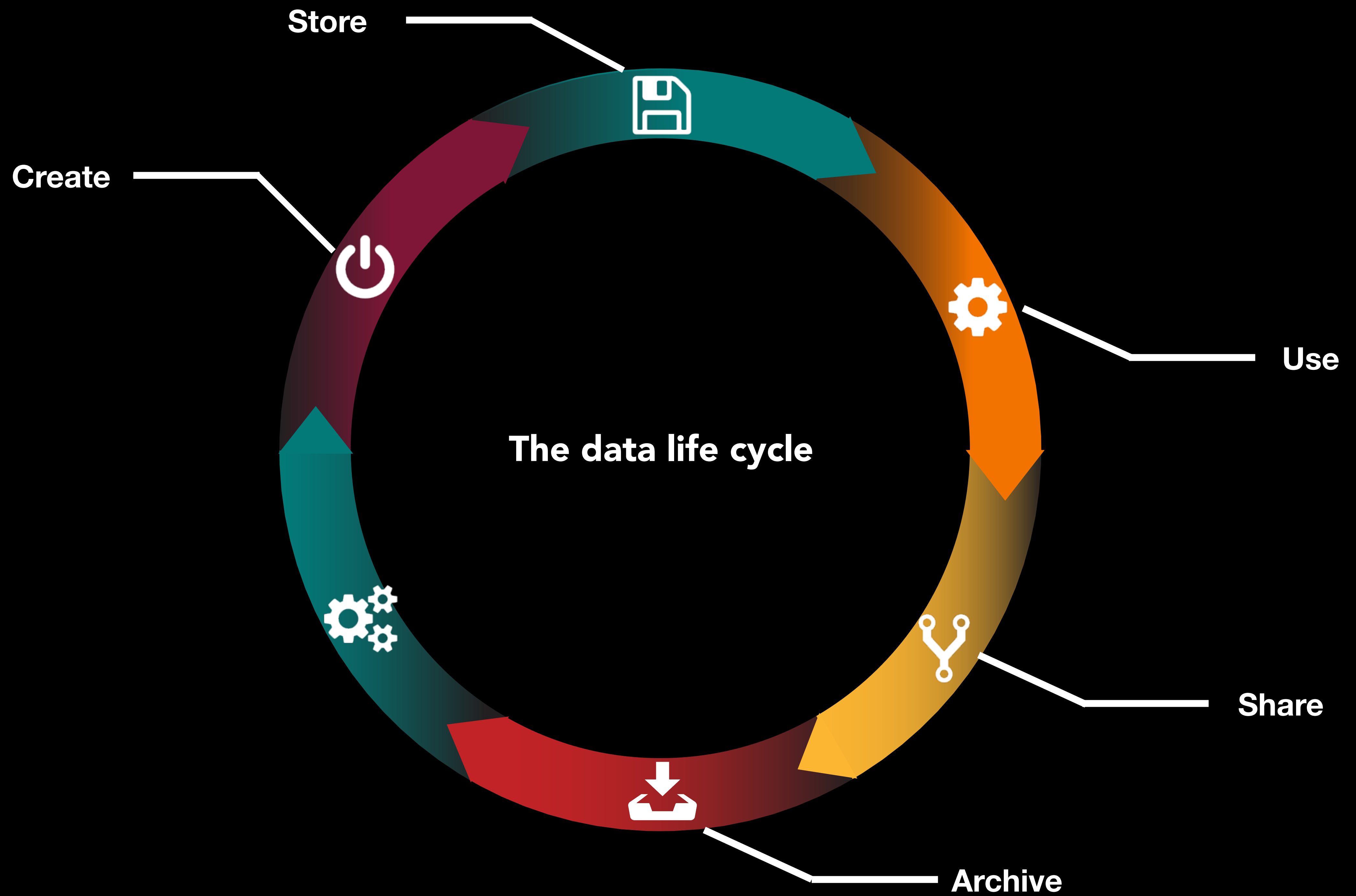
Create

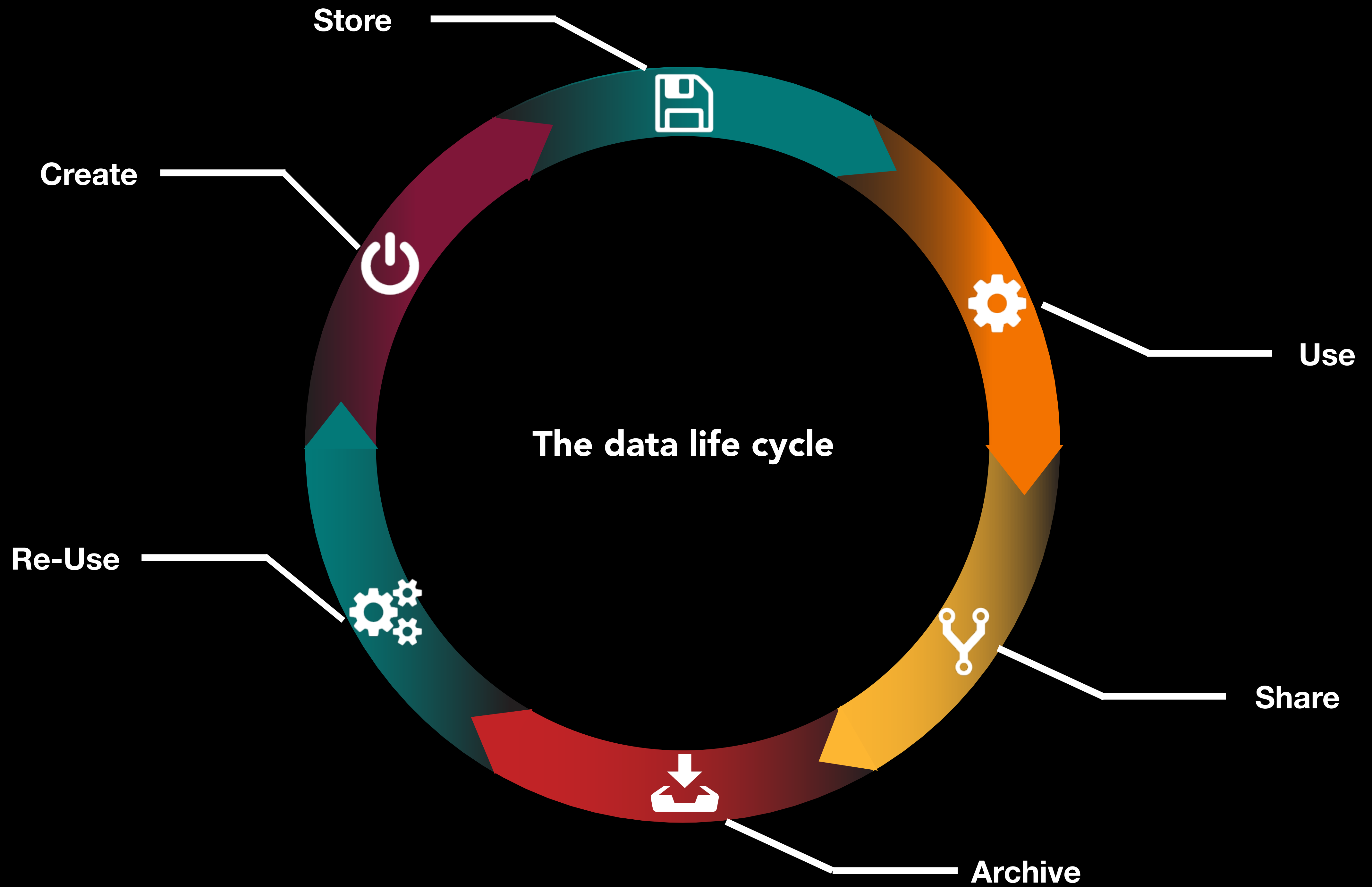










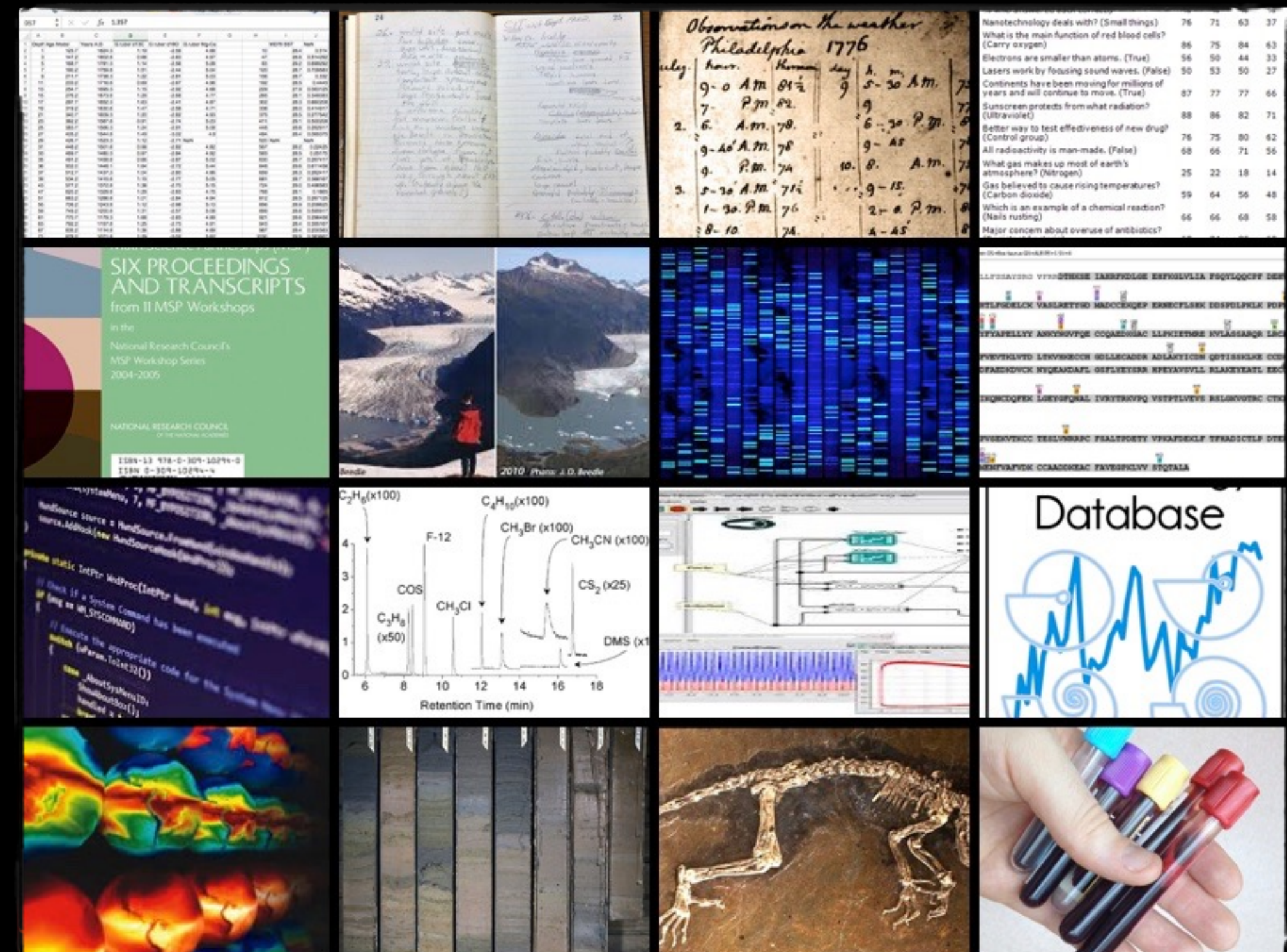


DATA:

"...THE RECORDED FACTUAL
MATERIAL COMMONLY ACCEPTED
IN THE SCIENTIFIC COMMUNITY AS
NECESSARY TO **VALIDATE**
RESEARCH FINDINGS."

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METADATA:

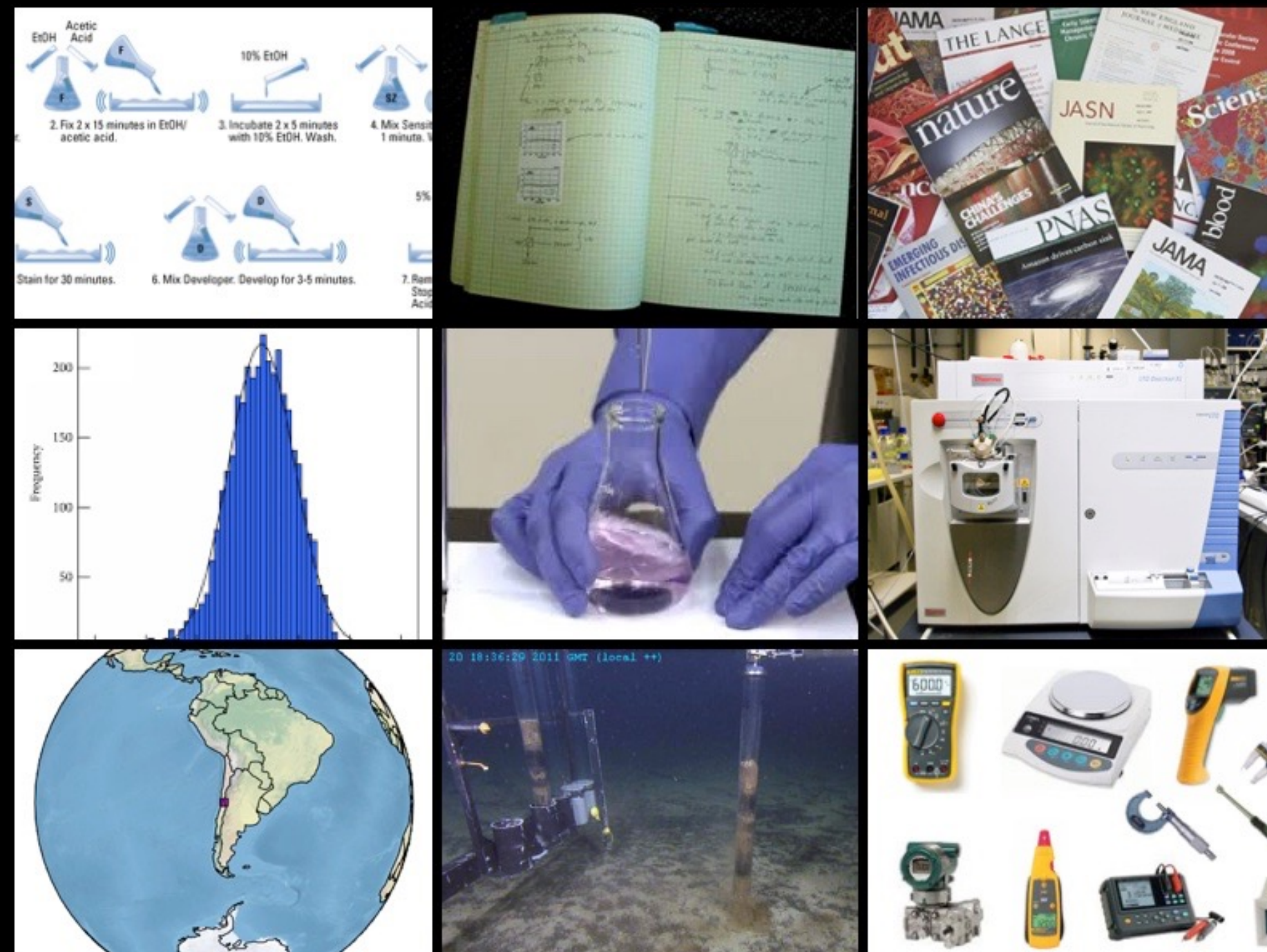
METADATA IS INFORMATION ABOUT THE DATA THAT PROVIDES CONTEXT KEY TO **UNDERSTAND** WHAT THE DATA REPRESENTS.

DATA:

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METADATA:

METADATA IS INFORMATION ABOUT THE DATA THAT PROVIDES CONTEXT KEY TO **UNDERSTAND** WHAT THE DATA REPRESENTS.

DATA MANAGEMENT:

ACTIONS THAT CONTRIBUTE TO EFFECTIVE **STORAGE, PRESERVATION,** AND **REUSE** OF DATA AND METADATA THROUGHOUT THE RESEARCH LIFECYCLE.

Why do you need to know about data management?

- Scientists are changing

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- Scientists are changing

Open Data



Open Access



Open Publications

Open Source



Why do you need to know about data management?

- Scientists are changing
- Publishers are changing

Statement of Commitment:

Today, a research publication is much more than a manuscript on a web site or in print. All scholarly publications represent a network of interconnected resources and information that are essential to the integrity, reusability, and value of that output for both scientific and societal uses. Often, the data, software, experimental protocols and physical samples connected to a publication provide additional and even greater value in their own right.

In the Earth, space, and environmental sciences, much data represent recordings of events or the state of the Earth or solar system in time and space that can never be repeated. Increasingly, these data, models, software, and samples provide essential societal, economic, and research benefits. Given these connections, we recognize that ensuring the quality, value, and integrity of the data and other resources connected to scholarly publications are essential.

Leading principles and practices have been developed over the past few years to meet these goals. Foremost among these are the FAIR Data Principles: that data should be Findable, Accessible, Interoperable, and Reusable not only for people, but also for machines. Under these principles, as a minimum, data must have unique and persistent identifiers and metadata appropriate to assist discovery and be cited in a form equivalent to other scholarly outputs. The data should be accessible through a standard, web-based protocol. Provenance information and a clear usage license must be provided such that the data are technically and semantically interoperable and can be reused with confidence and clarity. The data must also be well curated, persistently accessible, and linked securely to associated publications and other resources. Similar standards have emerged for information about authors, software, and samples.



bit.ly/FAIRCommitment

Why do you need to know about data management?

- Scientists are changing
- Publishers are changing
- Funders are changing



The screenshot shows the White House website header with the text "the WHITE HOUSE PRESIDENT BARACK OBAMA" and links for "Contact Us" and "Get Email Updates". The navigation bar includes "BRIEFING ROOM", "ISSUES", "THE ADMINISTRATION", "PARTICIPATE", and "1600 PENN". The main content area features a blog post titled "Expanding Public Access to the Results of Federally Funded Research" dated "FEBRUARY 22, 2013 AT 12:04 PM ET BY MICHAEL STEBBINS". The post includes social media icons for Twitter, Facebook, and Email. The summary text reads: "Summary: The Obama Administration is committed to the proposition that citizens deserve easy access to the results of research their tax dollars have paid for. That's why, in a policy memorandum released today, OSTP Director John Holdren has directed Federal agencies with more than \$100M in R&D expenditures to develop plans to make the results of federally funded research freely available to the public—generally within one year of publication."

the WHITE HOUSE PRESIDENT BARACK OBAMA

Contact Us Get Email Updates

BRIEFING ROOM ISSUES THE ADMINISTRATION PARTICIPATE 1600 PENN

HOME · BLOG

Expanding Public Access to the Results of Federally Funded Research


FEBRUARY 22, 2013 AT 12:04 PM ET BY MICHAEL STEBBINS

Twitter Facebook Email

Summary: The Obama Administration is committed to the proposition that citizens deserve easy access to the results of research their tax dollars have paid for. That's why, in a policy memorandum released today, OSTP Director John Holdren has directed Federal agencies with more than \$100M in R&D expenditures to develop plans to make the results of federally funded research freely available to the public—generally within one year of publication.

Why do you need to know about data management?

- Scientists are changing
- Publishers are changing
- Funders are changing
- Universities are changing

 UNIVERSITY OF CALIFORNIA

UC Publication Management

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Logout notice

To protect your accounts from unauthorized access, please lock your workstation or exit your browser after logging out of this site.

Managing your publications

-  We'll scan the web for publications you've authored.
-  Log in (at left) to review what we've found.
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-  Upload your manuscript for public display on [eScholarship](#).

Resources and support

Learn more about the [UC Open Access Policy](#).


Get answers to [Frequently Asked Questions](#).

Find out who to contact for [additional support](#).

Why do you need to know about data management?

- Sharing your data is not only required but it also helps you!

Sharing Detailed Research Data Is Associated with Increased Citation Rate

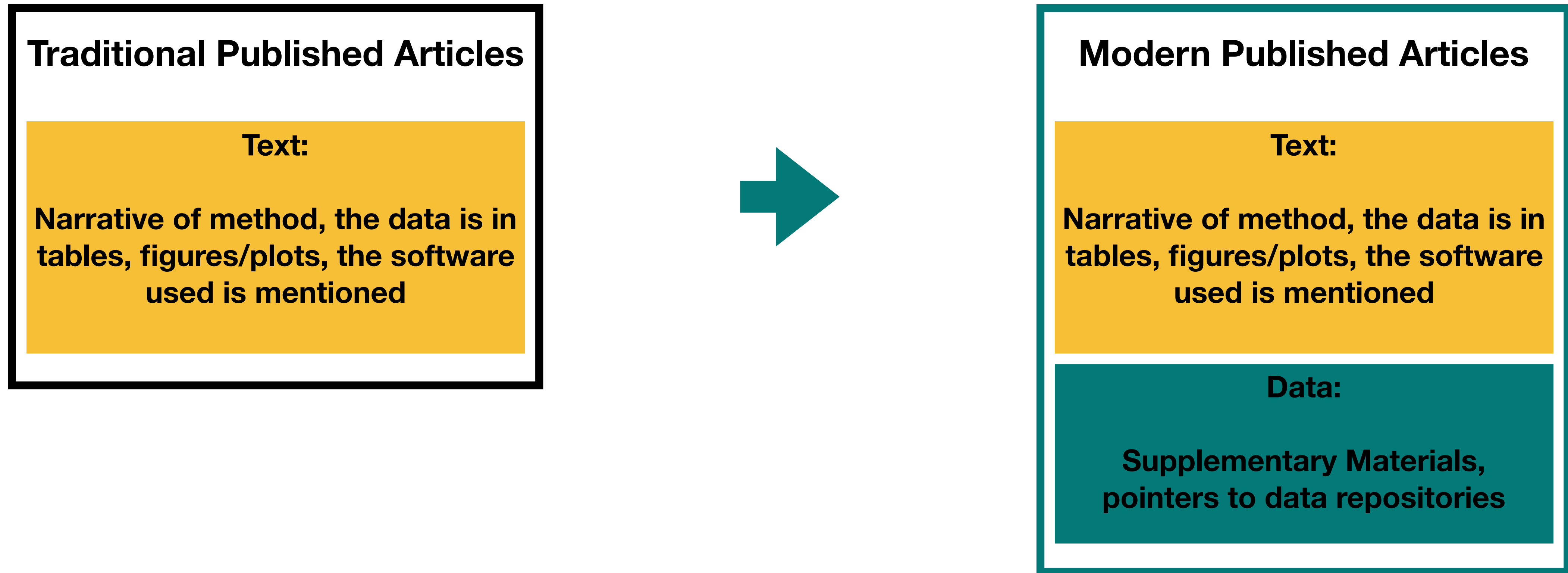
Heather A. Piwowar , Roger S. Day, Douglas B. Fridsma

Published: March 21, 2007 • DOI: 10.1371/journal.pone.0000308 • Featured in PLOS Collections

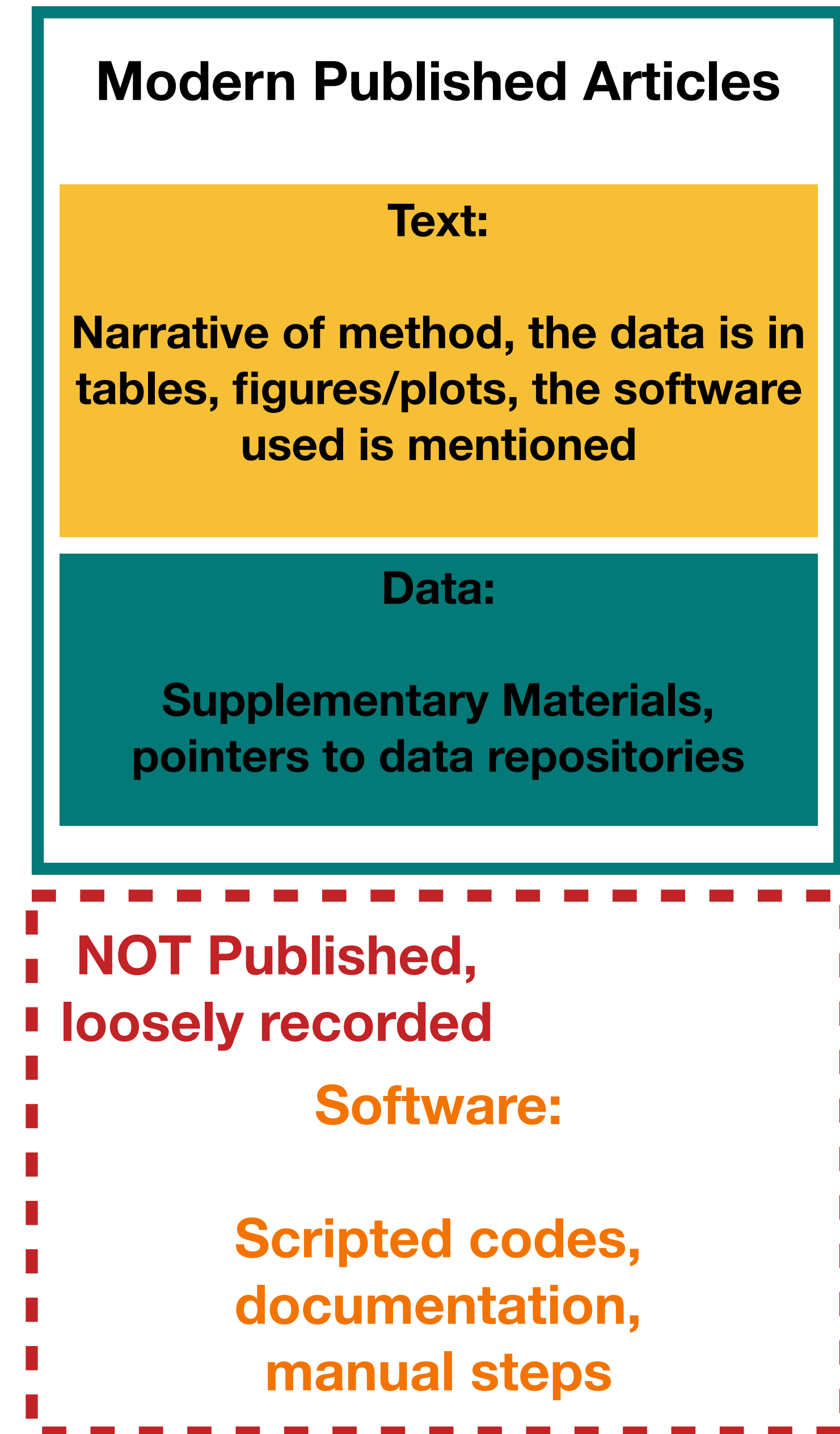
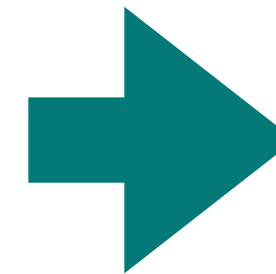
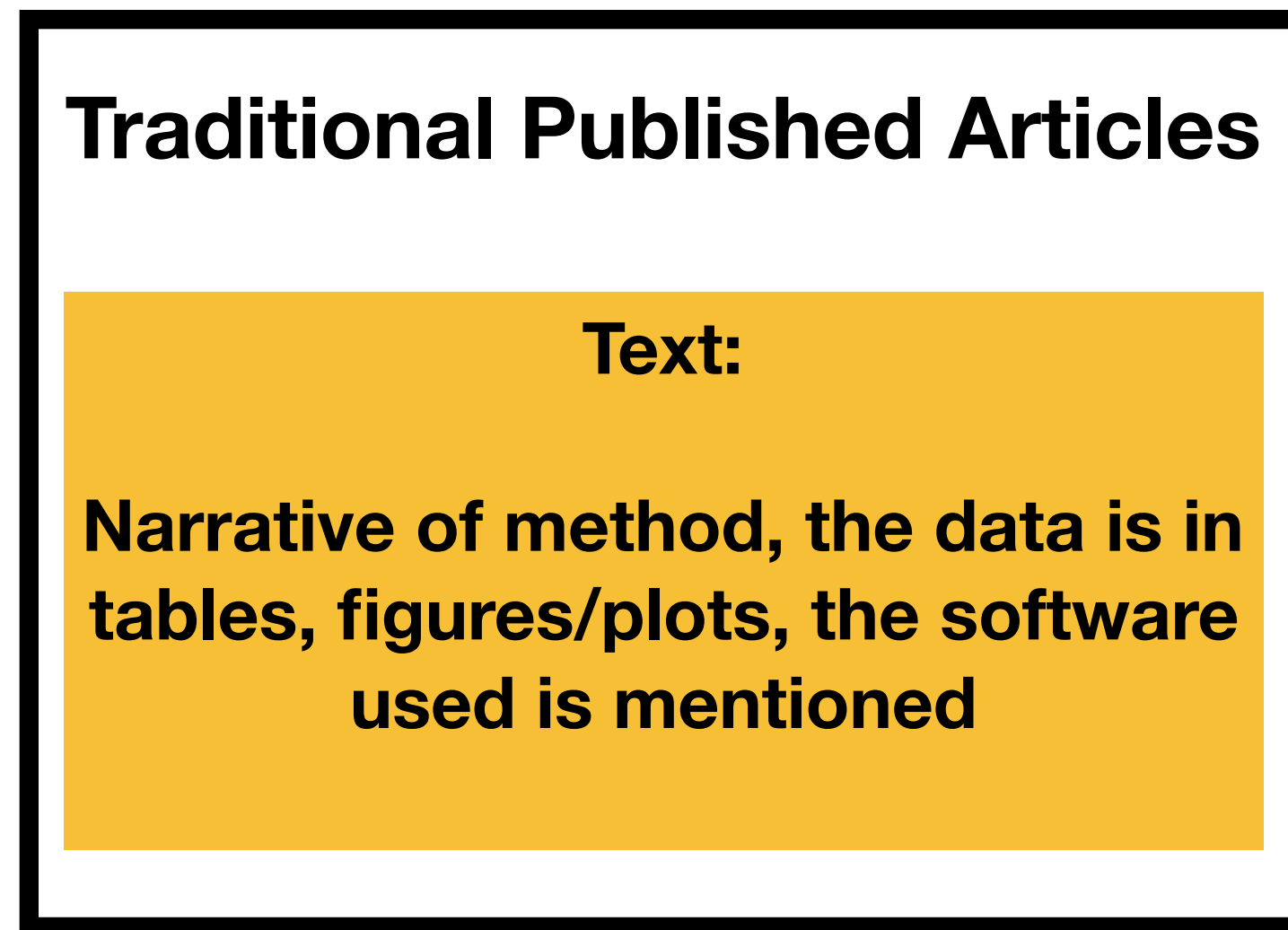
Principal Findings

We examined the citation history of 85 cancer microarray clinical trial publications with respect to the availability of their data. The 48% of trials with publicly available microarray data received 85% of the aggregate citations. Publicly available data was significantly ($p = 0.006$) associated with a 69% increase in citations, independently of journal impact factor, date of publication, and author country of origin using linear regression.

Modern Scientific Articles



Modern Scientific Articles



Scientific Paper of the Future

Modern Paper

Text:

Narrative of the method, some data is in tables, figures/plots, and the software used is mentioned

Data:

Include data as supplementary materials and pointers to data repositories

Reproducible Publication

Software:

For data preparation, data analysis, and visualization

Provenance and methods:

Workflow/scripts specifying dataflow, codes, configuration files, parameter settings, and runtime dependencies

Open Science

Sharing:

Deposit data and software (and provenance/workflow) in publicly shared repositories

Open licenses:

Open source licenses for data and software (and provenance/workflow)

Metadata:

Structured descriptions of the characteristics of data and software (and provenance/workflow)

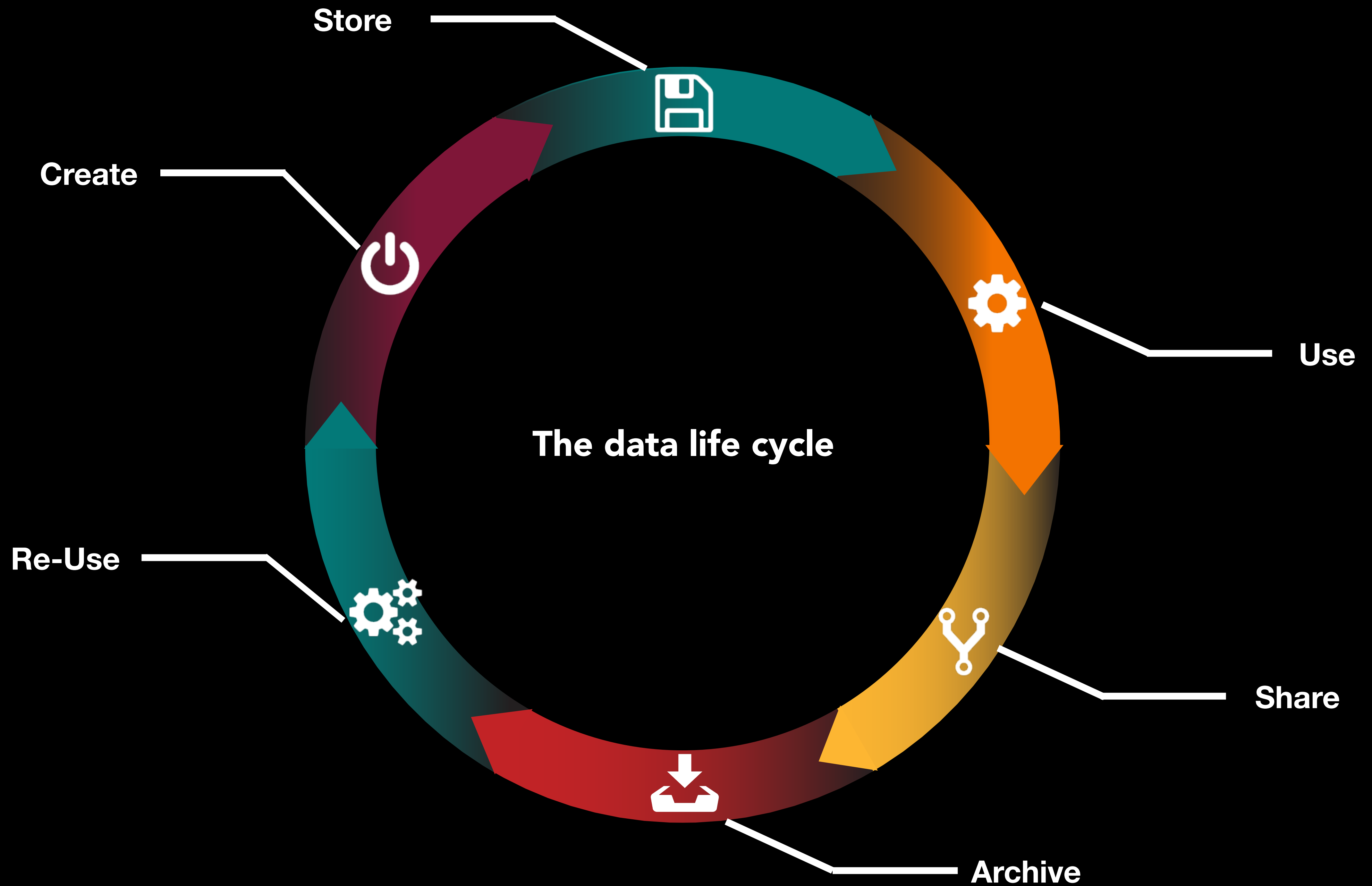
Digital Scholarship

Persistent identifiers:

For data, software, and authors (and provenance/workflow)

Citations:

Citations for data and software (and provenance/workflow)





Store





AND





AND





Store



AND





Store



AND





Store



AND

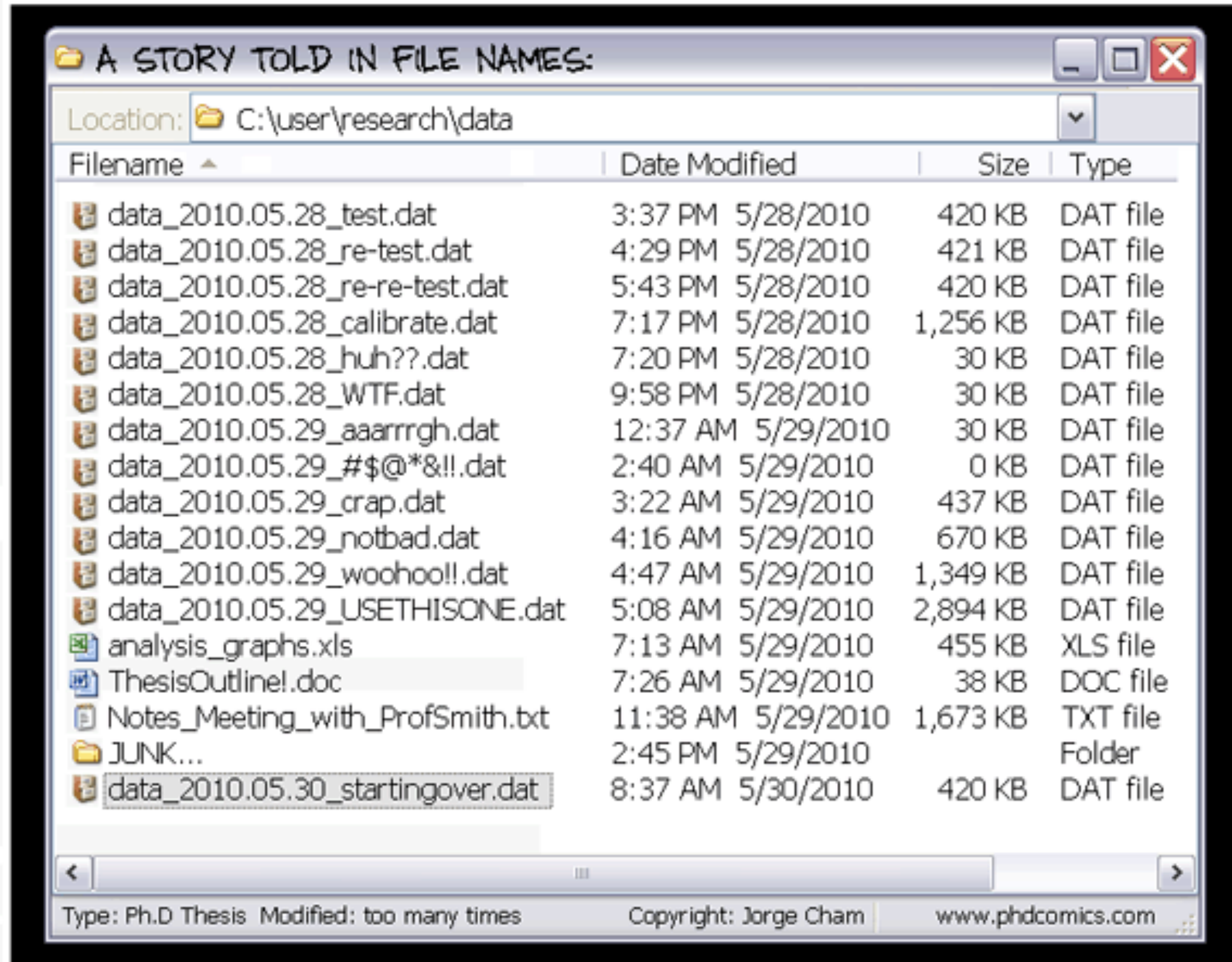


Keep in mind:

1. Some data backup is better than none
2. Automated backups are better than manual
3. Your data is only as safe as the last backup

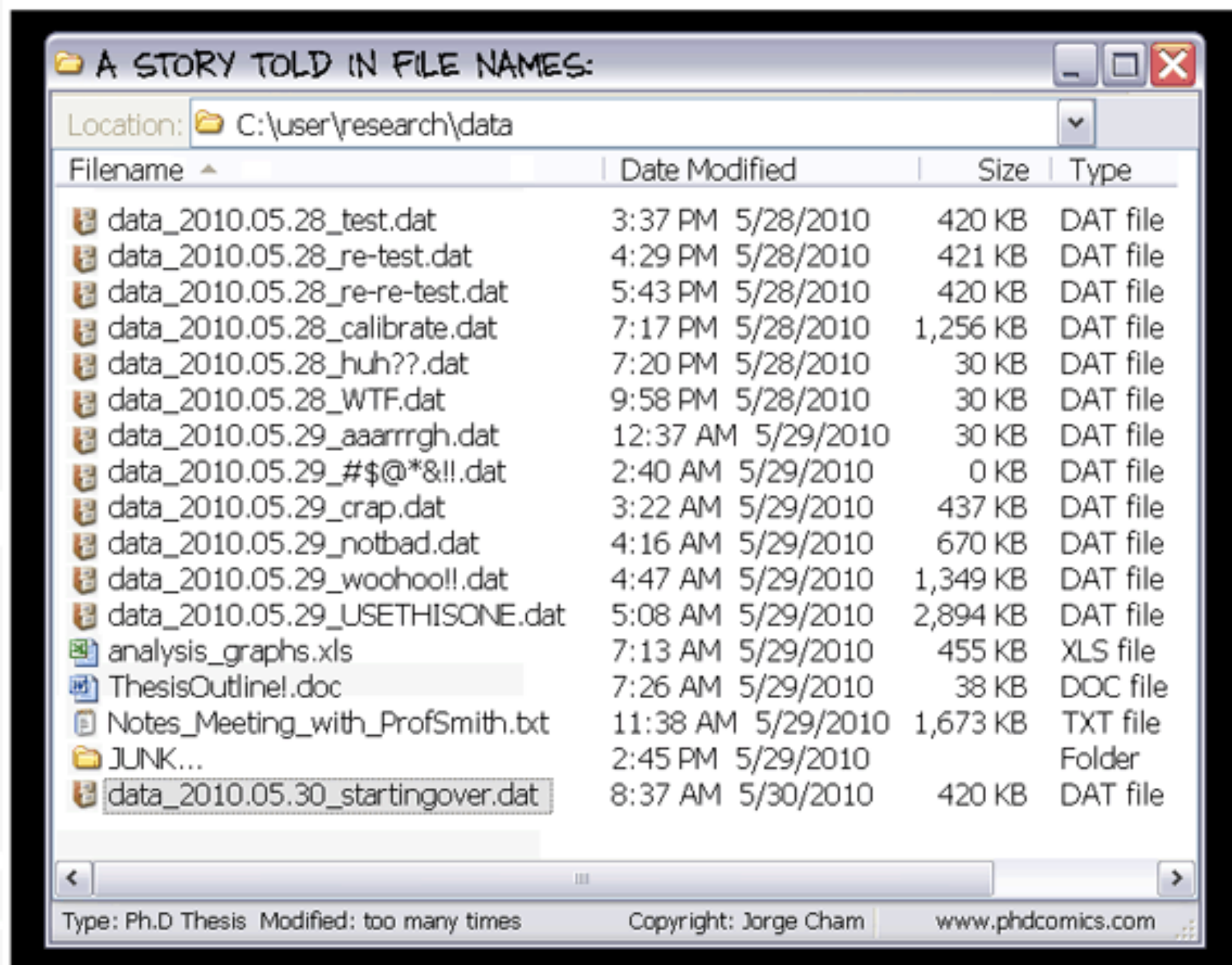


File Name and Organization





File Name and Organization



Morgan Edwards

@mangoedwards

[Follow](#)

I can't send you the original data because I don't remember what my excel file names mean anymore [#overlyhonestmethods](#)

9:11 AM - 8 Jan 2013



130



77



Project_Date_Description

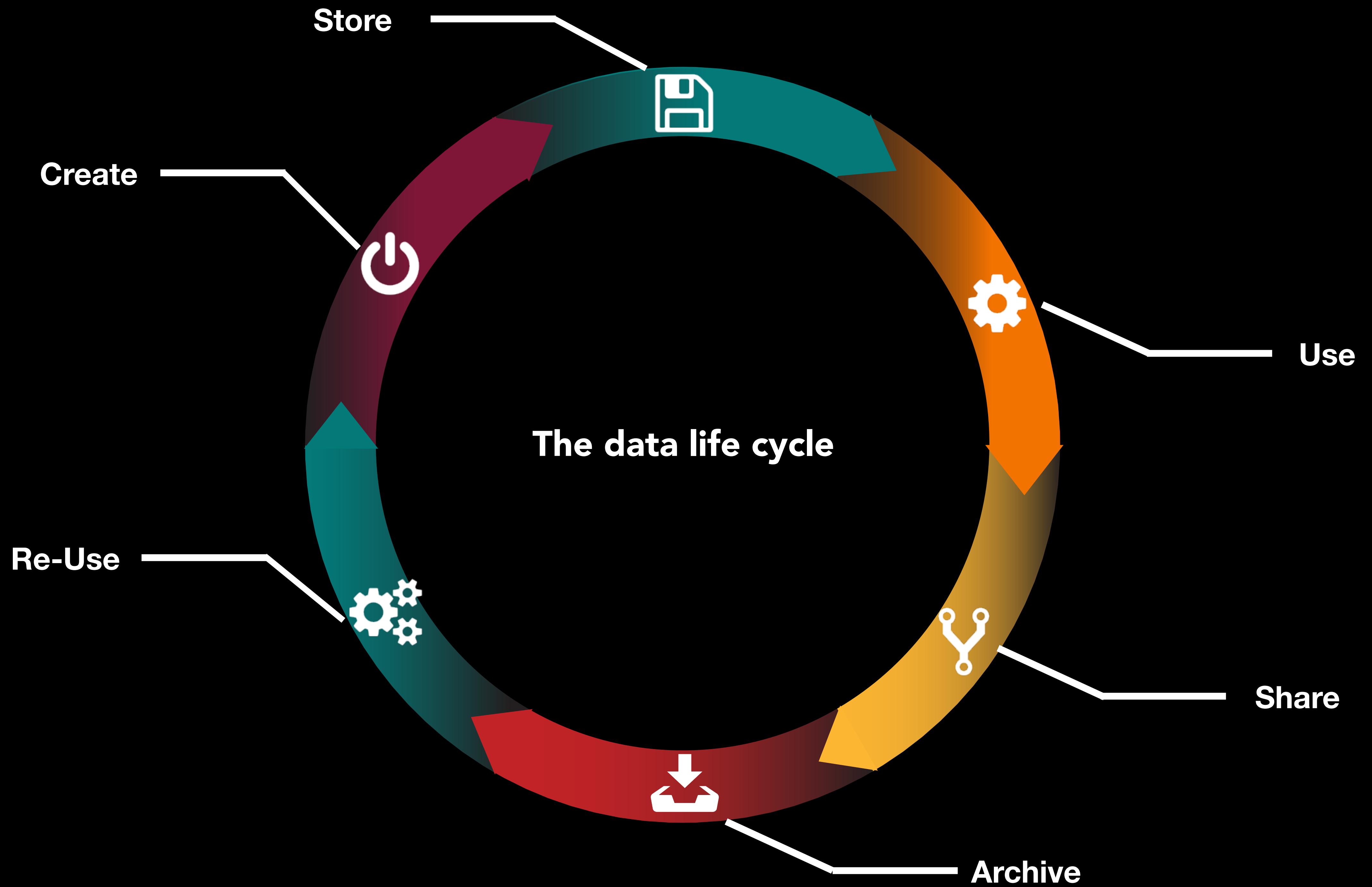


File Name and Organization



KEEP A FILE ABOUT YOUR FILES

► **ReadMe**: Description of what the files/folders contain





KEEP YOUR RAW DATA RAW!

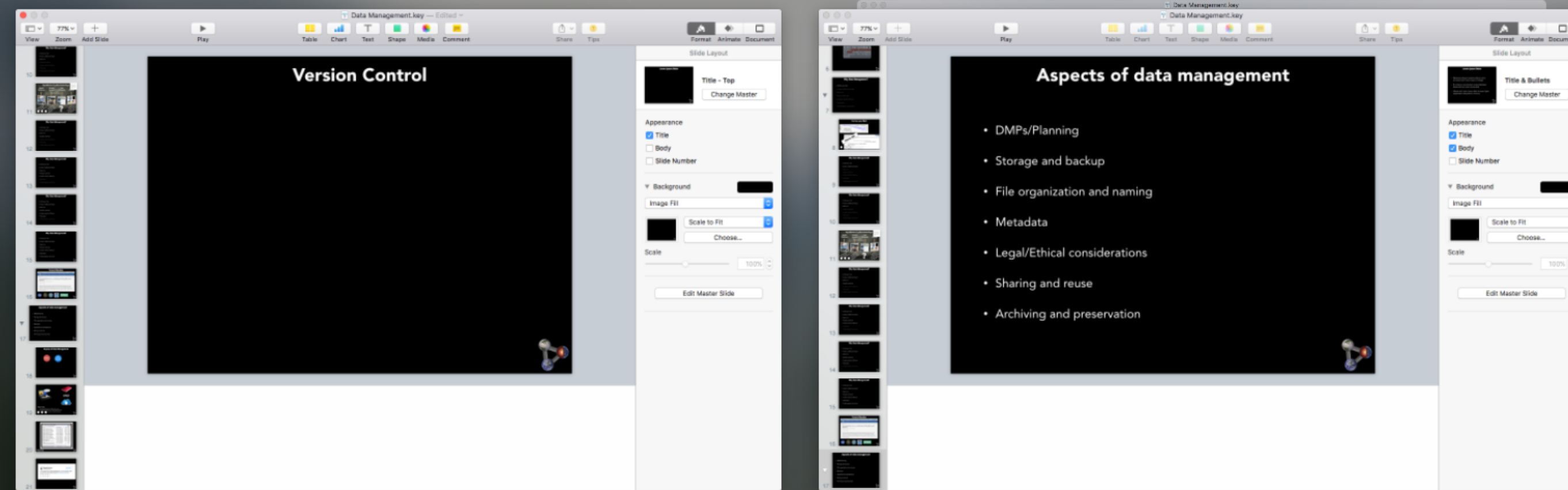
- ▶ Always keep the original data as raw as possible. Create new versions of dataset if you perform any data cleaning.
- ▶ Even more important when calibrating datasets or applying normalization, filters,...



Version Control



Version Control



Current Document

Done

Restore

Today at 2:16 PM

May 2016

Today

Built into Pages, Numbers, Keynote on the Mac...



Version Control

Charter ☆

File Edit View Insert Format Tools Tab

Share...

New ▶

Open... ⌘O

Rename...

Make a copy...

Organize...

Move to trash

See revision history ⌘+Option+Shift+H

See new changes

Language ▶

Download as ▶

Publish to the web...

Email collaborators...

Email as attachment...

Page setup...

Print preview

Print ⌘P

Revision history

April 19, 11:17 AM
■ Deborah Khider

April 18, 2:28 PM
■ Deborah Khider

April 1, 11:14 AM
■ Deborah Khider

March 31, 4:19 PM
■ Deborah Khider

March 31, 3:10 PM
■ Yolanda Gil
■ Deborah Khider

February 16, 10:51 AM
■ Linked Earth

February 9, 12:56 PM
■ Linked Earth

February 5, 11:42 AM
■ Julien Emile-Geay

February 4, 4:53 PM
■ Deborah Khider

February 4, 1:34 PM
■ Deborah Khider

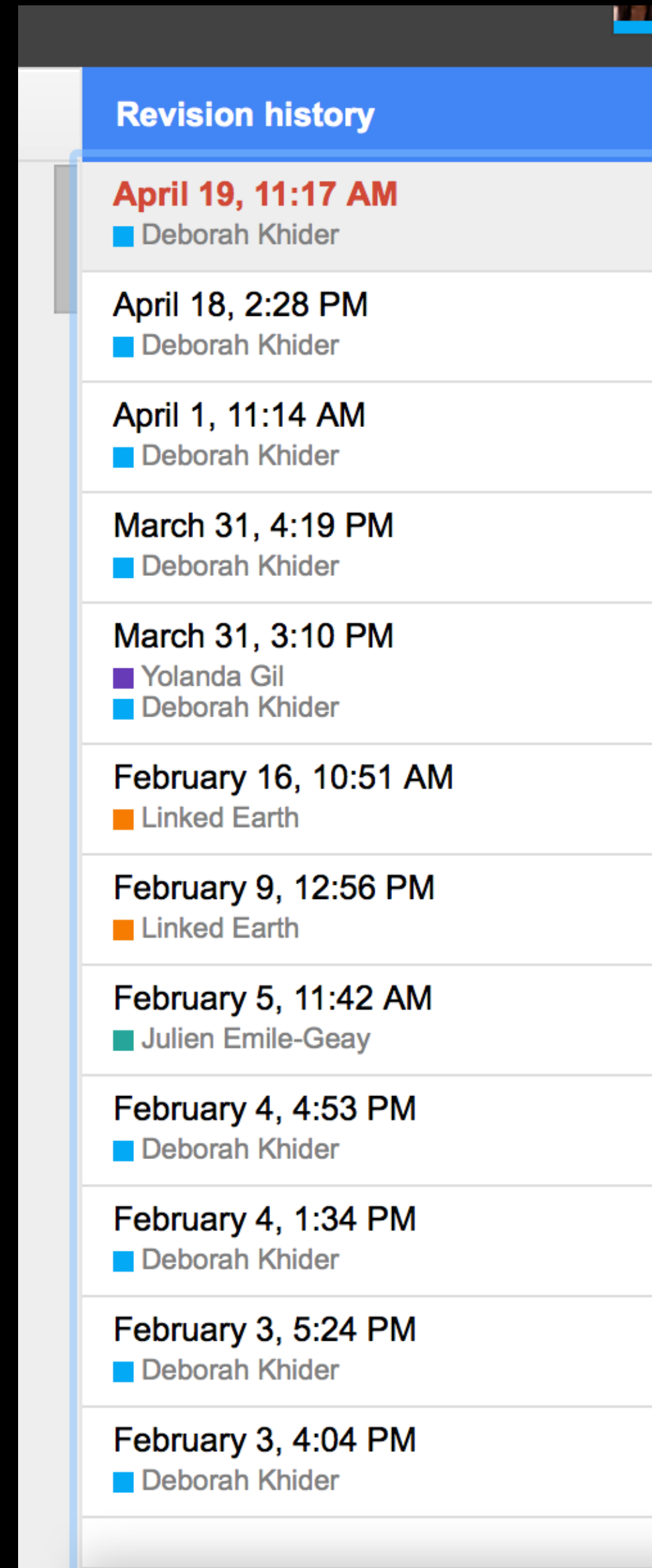
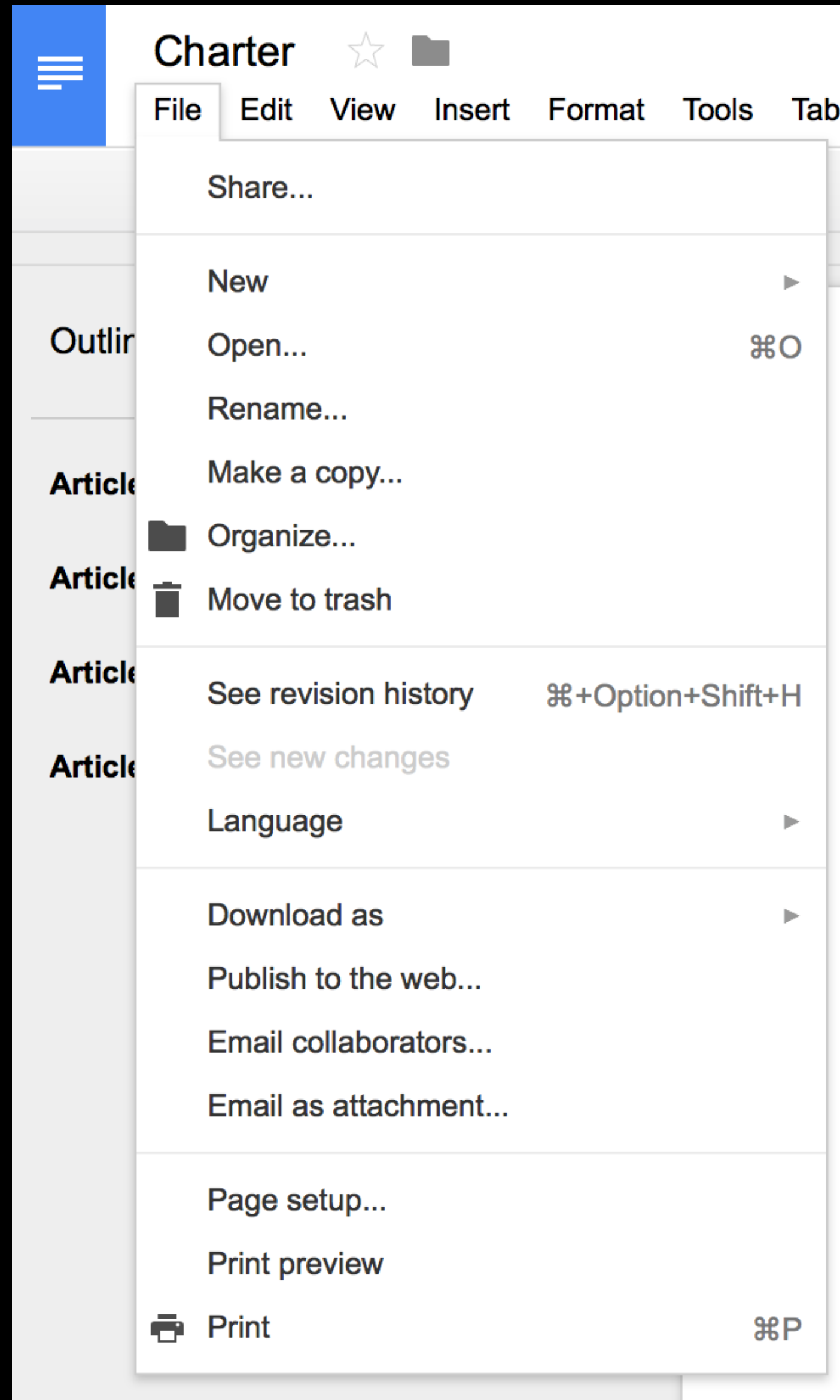
February 3, 5:24 PM
■ Deborah Khider

February 3, 4:04 PM
■ Deborah Khider

... as well as Google apps



Version Control



... as well as Google apps



Version Control

The screenshot displays the GitHub web interface for the repository 'LinkedEarth/Pyleoclim_util'. The top bar shows '4 Uncommitted Changes' and a 'History' tab. The left sidebar lists repositories: JAGS_MgCa, Ontology, and Pyleoclim_util. The main content area shows a list of commits on the left and a diff view on the right. The diff view shows changes to the 'setup.py' file, including updates to the version number from '0.1.5' to '0.1.6' and modifications to the README generation logic.

Commit history (left):

- update to setup.py (38 minutes ago by LinkedEarth)
- update to pipit (52 minutes ago by LinkedEarth)
- update to setup.py (2 hours ago by LinkedEarth)
- update to setup.py (2 hours ago by LinkedEarth)
- update to setup.py (3 hours ago by LinkedEarth)
- Update to ReadMe file (4 hours ago by LinkedEarth)
- update setup.py (5 days ago by LinkedEarth)
- Submit to PyPI (5 days ago by LinkedEarth)
- Update setup.py / remove cap P (5 days ago by LinkedEarth)
- Update version in setup (5 days ago by LinkedEarth)

Diff view (right):

update to setup.py
LinkedEarth 0015e6c 38 minutes ago

setup.py

```
... @@ -4,10 +4,12 @@ import sys
4 4 import io
5 5 import path
6 6
7 - version = '0.1.5'
7 + version = '0.1.6'
8 8
9 9 # Read the readme file contents into variable
10 - os.system('pandoc README.md -f markdown -t rst -s -o README.txt')
10 + if sys.argv[-1] == 'publish' or sys.argv[-1] == 'publishtest':
11 +     os.system('pandoc README.md -f markdown -t rst -s -o README.txt')
12 +
11 13 readme_file = io.open('README.txt', encoding='utf-8')
12 14
13 15 # Fallback long_description in case errors with readme file.
```



Use GitHub (code)

Don't Forget the Metadata!!!

TYPES OF METADATA

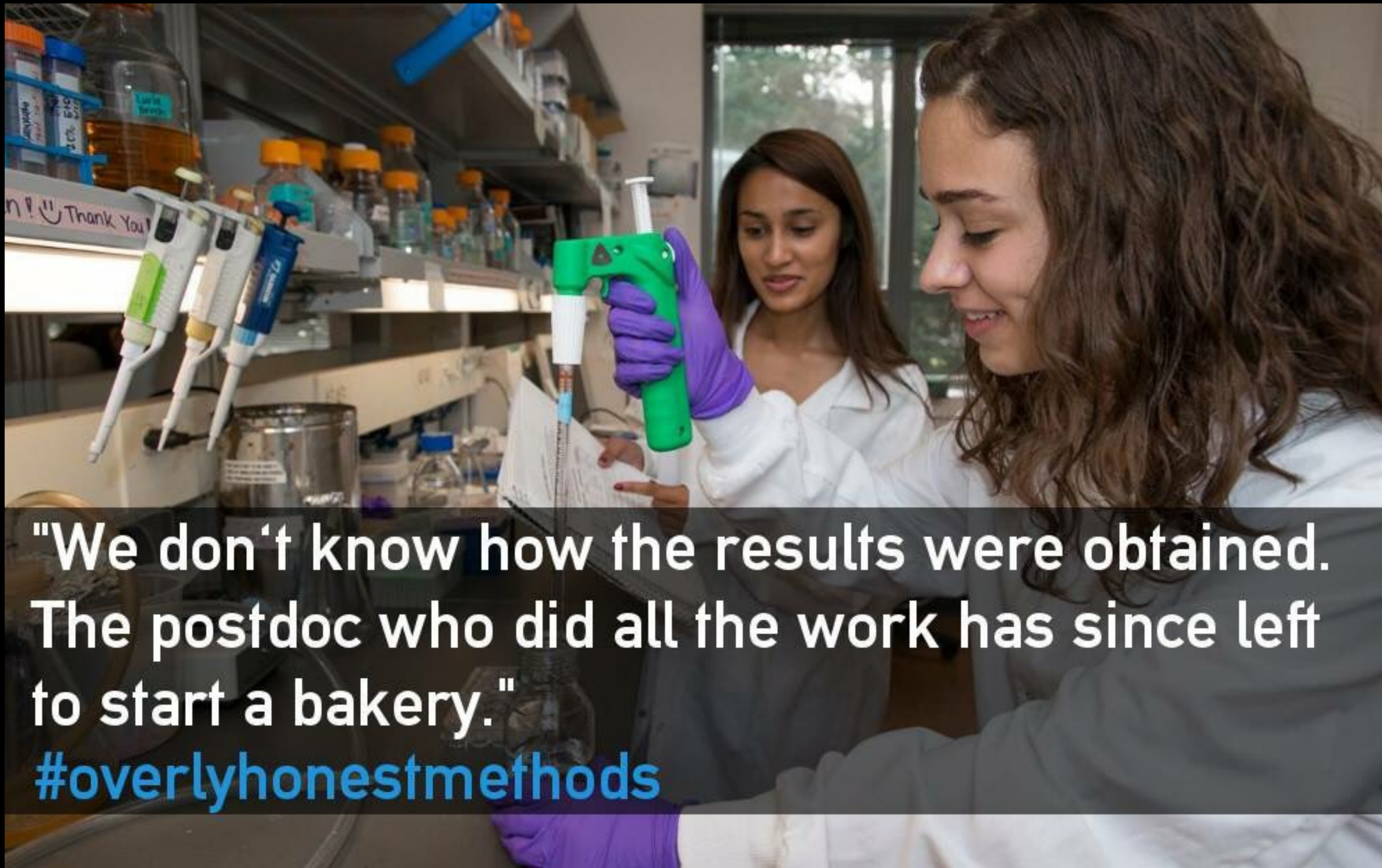
- ▶ **Descriptive Metadata:** Location, collection frequency, object, etc...
- ▶ **Data Characteristics:** Size, statistical properties,...
- ▶ **Provenance metadata:** Instrument, Method/Software, Parameters...



Don't Forget the Metadata!!!

USE OF METADATA

- **Facilitate** reuse by others





Don't Forget the Metadata!!!

USE OF METADATA

- ▶ **Facilitate** reuse by others
- ▶ Support **queries** on data repository

```
In [4]: import json
import requests

url = "http://wiki.linked.earth/store/ds/query"

query = """PREFIX core: <http://linked.earth/ontology#>
PREFIX wiki: <http://wiki.linked.earth/Special:URIResolver/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
SELECT distinct ?a
WHERE {
{
    ?dataset wiki:Property-3AArchiveType ?a.
}UNION
{
    ?w core:proxyArchiveType ?t.
    ?t rdfs:label ?a
}
}"""

response = requests.post(url, data = {'query': query})
res = json.loads(response.text)

print("The following archive types are available on the wiki:")
for item in res['results']['bindings']:
    print ("*" + item['a']['value'])
```

```
The following archive types are available on the wiki:
*marine sediment
*coral
*lake sediment
*glacier ice
*tree
*documents
*speleothem
*sclerosponge
*borehole
*hybrid
*bivalve
*Rock
```

Don't Forget the Metadata!!!

USE OF METADATA

- ▶ **Facilitate** reuse by others
- ▶ Support **queries** on data repository
- ▶ **Explain a data analysis** by providing context for the data





Don't Forget the Metadata!!!

USE OF METADATA

- ▶ **Facilitate** reuse by others
- ▶ Support **queries** on data repository
- ▶ **Explain a data analysis** by providing context for the data
- ▶ Enable **automated data integration**



Use

**THE BIGGEST LIE I TELL
MYSELF IS "I DON'T
NEED TO WRITE THAT
DOWN I'LL REMEMBER."**

Everyone at some point in their life.



Use

WRITE IT DOWN!

- ▶ **Methods:** Laboratory, statistics, data cleaning...
- ▶ **Comment your code:** 1 line of code = 1 line of comment
- ▶ **Meeting notes**



Use

WRITE IT DOWN!

- ▶ **Methods:** Laboratory, statistics, data cleaning...
- ▶ **Comment your code:** 1 line of code = 1 line of comment
- ▶ **Meeting notes**

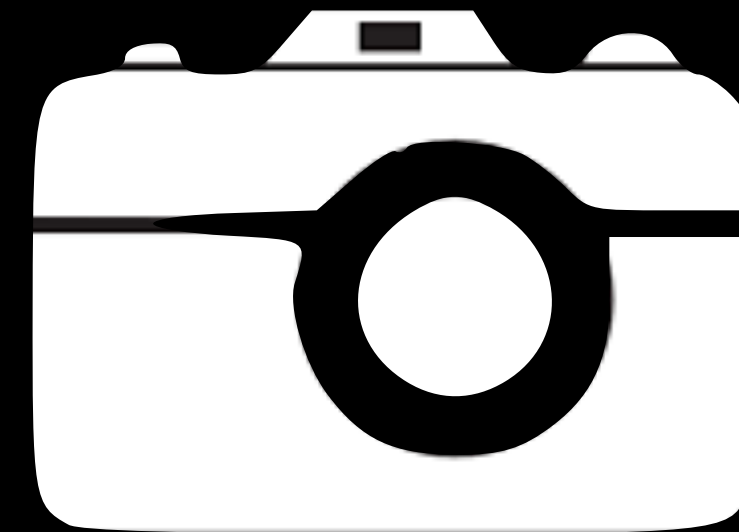




Use

WRITE IT DOWN!

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- ▶ **Comment your code:** 1 line of code = 1 line of comment
- ▶ **Meeting notes**

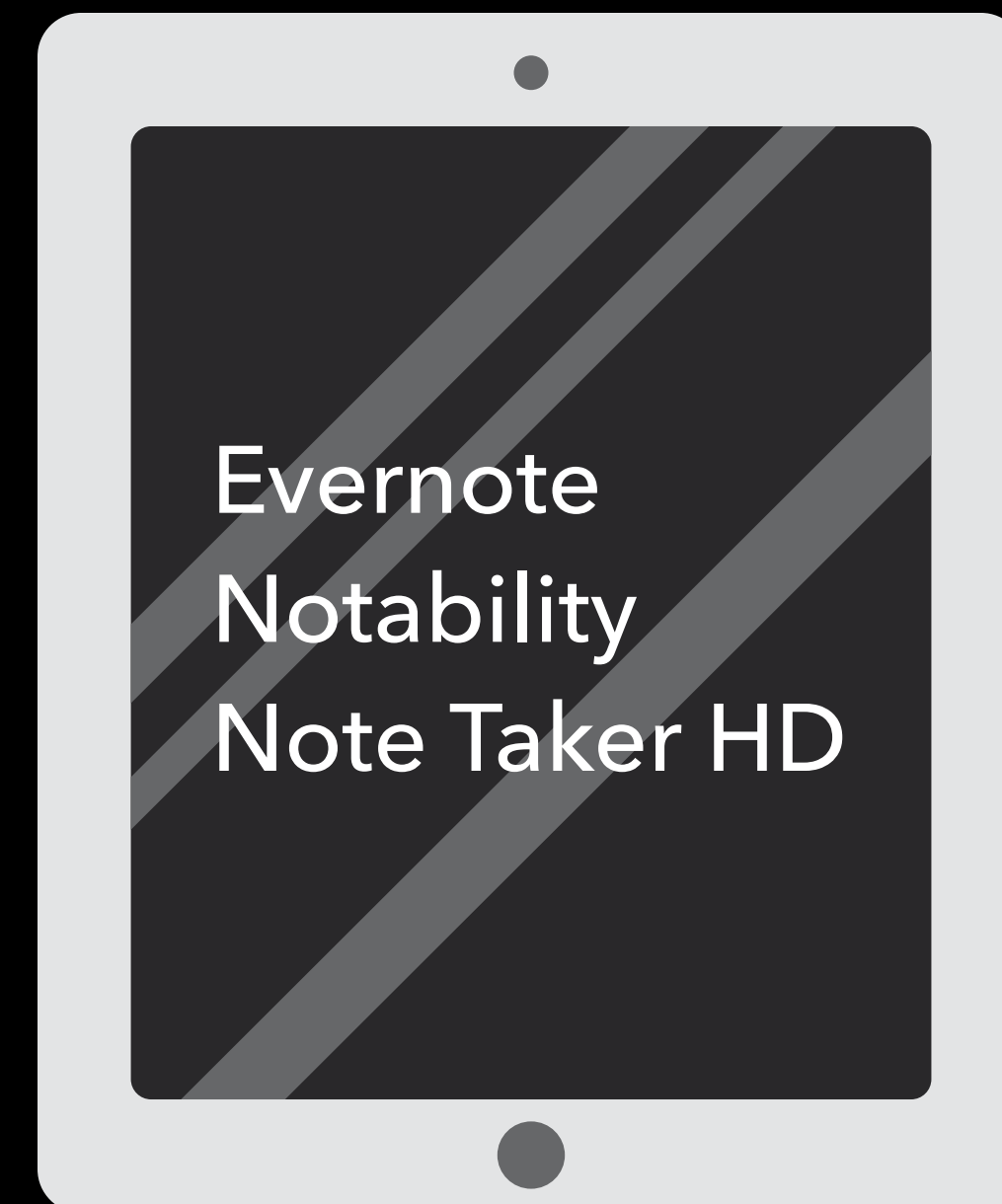




Use

WRITE IT DOWN!

- ▶ **Methods:** Laboratory, statistics, data cleaning...
- ▶ **Comment your code:** 1 line of code = 1 line of comment
- ▶ **Meeting notes**





Keep code and explanation together!



Notebook

jupyter spectrogram (autosaved)



File Edit View Insert Cell Kernel Help

Python 3

Save + Cut Copy Paste Undo Redo Markdown CellToolbar

Simple spectral analysis

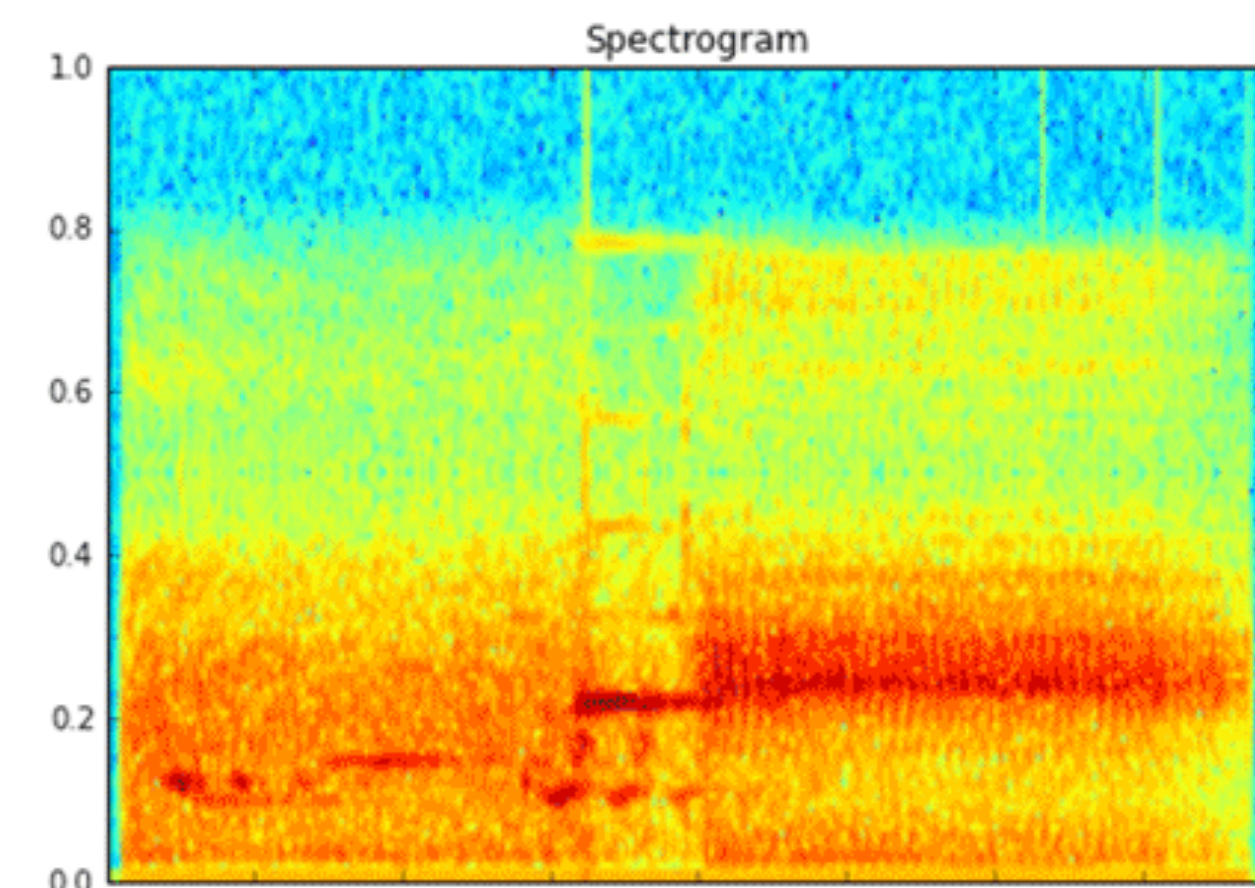
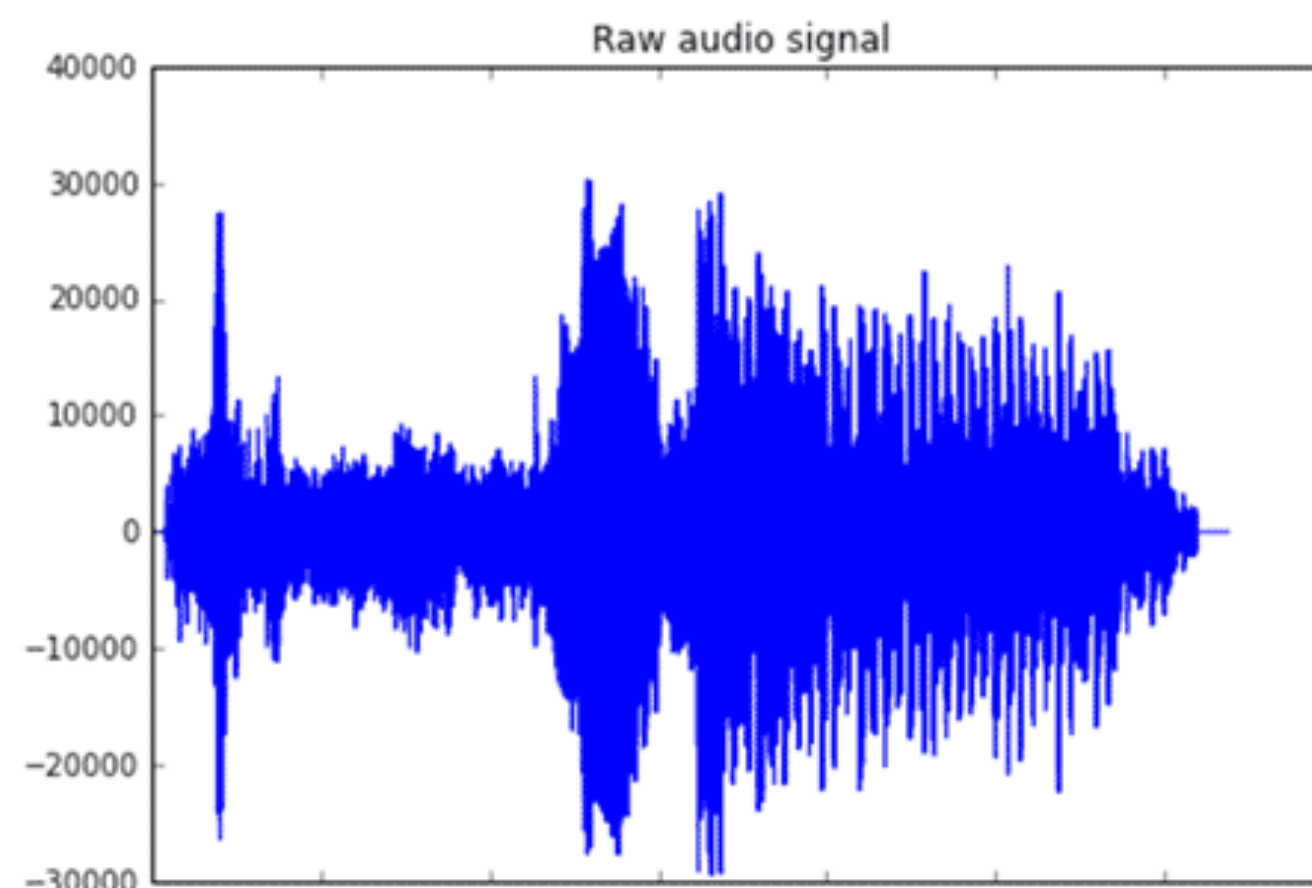
An illustration of the [Discrete Fourier Transform](#)

$$X_k = \sum_{n=0}^{N-1} x_n \exp\left(\frac{-2\pi i}{N} kn\right) \quad k = 0, \dots, N-1$$

```
In [2]: from scipy.io import wavfile
rate, x = wavfile.read('test_mono.wav')
```

And we can easily view it's spectral structure using matplotlib's builtin specgram routine:

```
In [5]: fig, (ax1, ax2) = plt.subplots(1,2,figsize(16,5))
ax1.plot(x); ax1.set_title('Raw audio signal')
ax2.specgram(x); ax2.set_title('Spectrogram');
```





Keep code and explanation together!



R Markdown

from R Studio

```
1 ---
2 title: "Exploring the BRFSS data"
3 output:
4   html_document:
5     fig_height: 4
6     highlight: pygments
7     theme: spacelab
8 ---
9
10 ## Setup
11
12 ### Load packages
13
14 ```{r load-packages, message = FALSE}
15 library(ggplot2)
16 library(dplyr)
17 ```
18
19 ### Load data
20 Load the BRFSS data into the workspace.
21
22 ```{r load-data}
23 load("brfss2013.RData")
24 ```
```

The screenshot shows the RStudio interface with a file explorer at the top containing 'LE-Neo_UseCase.Rmd', 'FLDAS.R', 'DownloadFLDAS.R', and 'intro_data_prob_project.Rmd'. The main editor displays an R Markdown document with a title 'Exploring the BRFSS data' and sections for loading packages and data. The status bar at the bottom indicates the current position is 1:1 and the document is titled '# Exploring the BRFSS data'.



Keep code and explanation together!



R Markdown

from R Studio

```
1 ---
2 title: "Exploring the BRFSS data"
3 output:
4   html_document:
5     fig_height: 4
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20 Load the BRFSS data into the workspace.
21
22 ```{r load-data}
23 load("brfss2013.RData")
24 ```
```

1:1 # Exploring the BRFSS data R Markdown

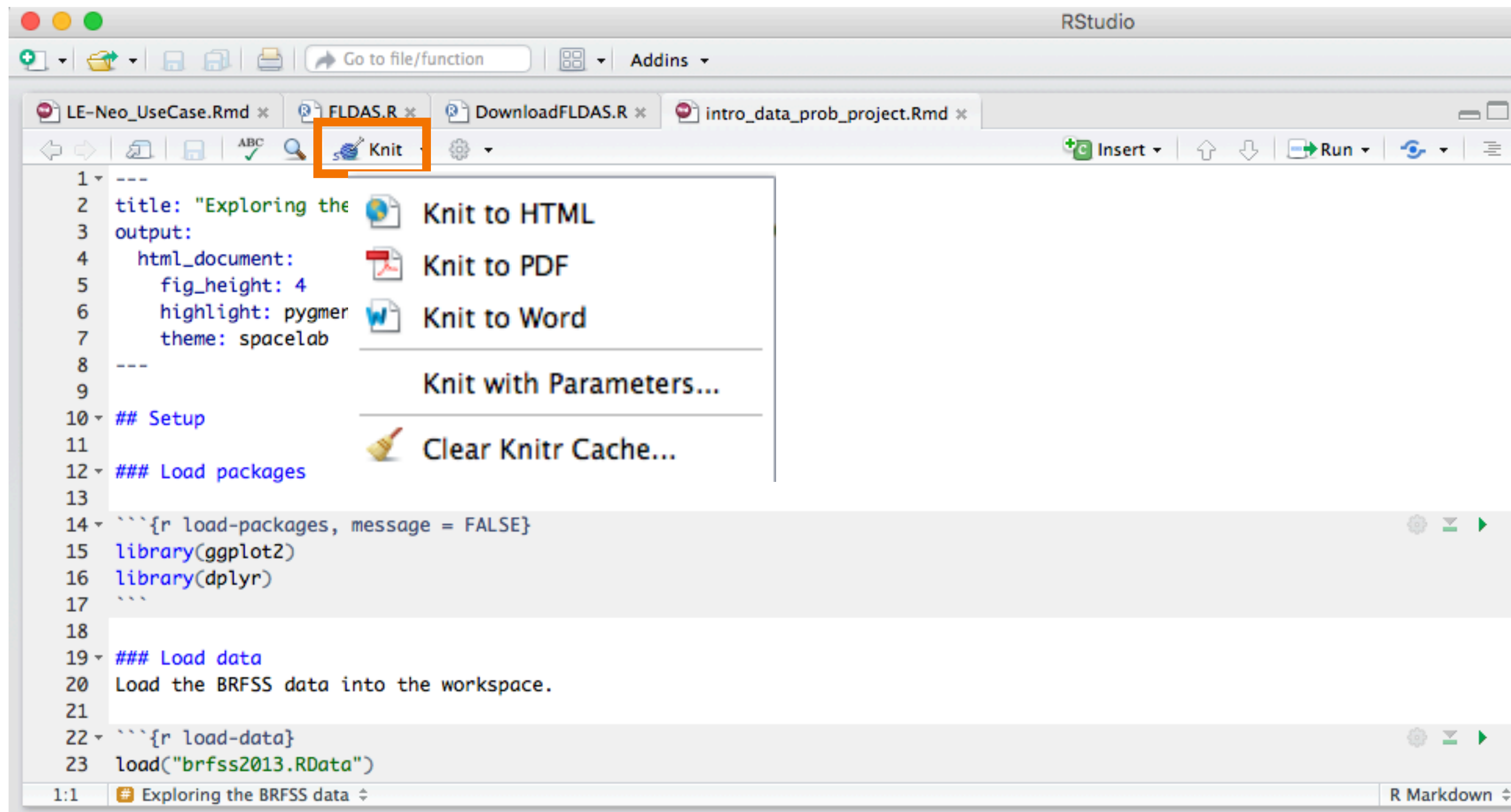


Keep code and explanation together!



R Markdown

from R Studio





Keep code and explanation together!



Notebook

Part 3: Exploratory data analysis

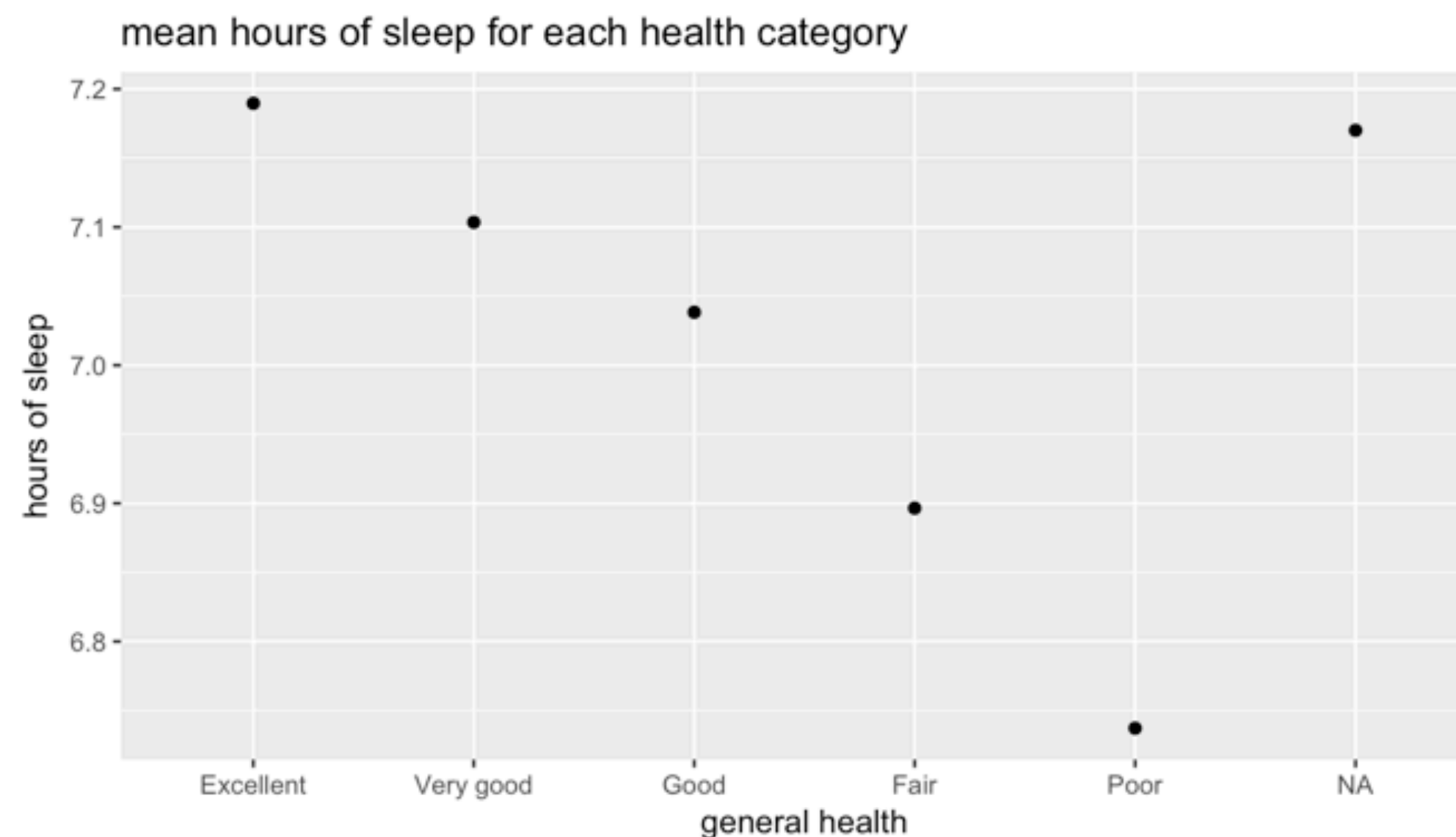
Research question 1: Relationship between sleep and general health

```
#Remove outliers (can't really sleep more than 24hours)
sleeptime <- filter(brfss2013, sleptiml<=24)
```

```
## Warning: package 'bindrcpp' was built under R version 3.2.5
```

```
# Summarize the data
healthSleep <- sleeptime %>%
  group_by(genhlth) %>%
  summarise(meanSleep = mean(sleptiml))

#Plot the general health/mean of sleep time
ggplot(healthSleep, aes(genhlth, meanSleep)) + geom_point(aes(genhlth, meanSleep)) +
  labs(title="mean hours of sleep for each health category", x = 'general health', y='hours of sleep')
```



From the plot above, there appears

to be a general correlation between health and the amount of sleep.

R Markdown

from R Studio



Keep code and explanation together!



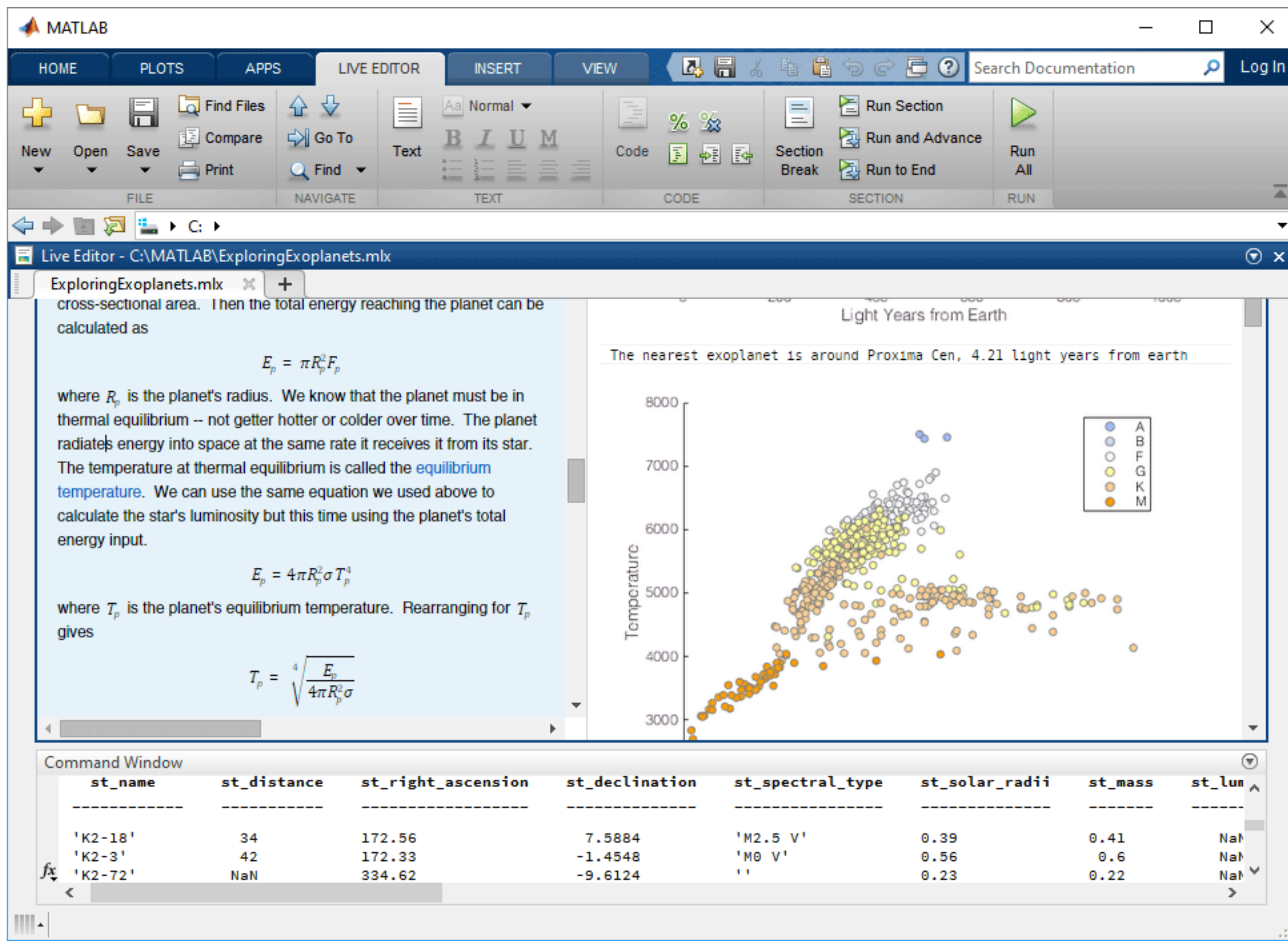
Notebook

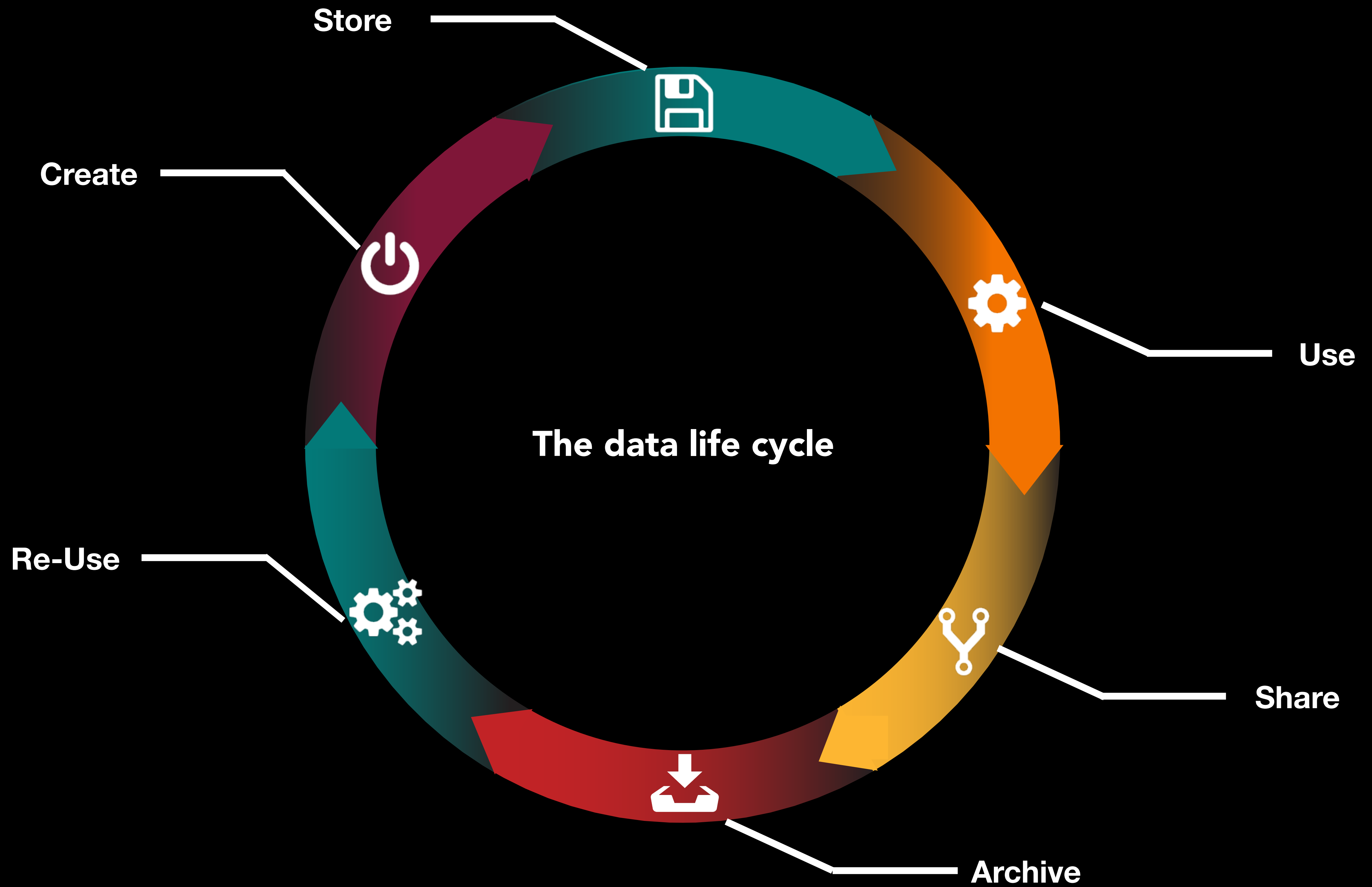
R Markdown

from R Studio



MATLAB Live Editor







INTERNATIONAL GEO SAMPLE NUMBER: IGSN

- ▶ Globally unique and persistent identifier for physical samples in the Earth Sciences
- ▶ To obtain a number, go to <http://www.geosamples.org/>
- ▶ Record and register quality metadata for your samples
 - ▶ At a minimum: Location, contact, access restrictions, lithology
- ▶ Use IGSNs in your publications: text, data tables,...

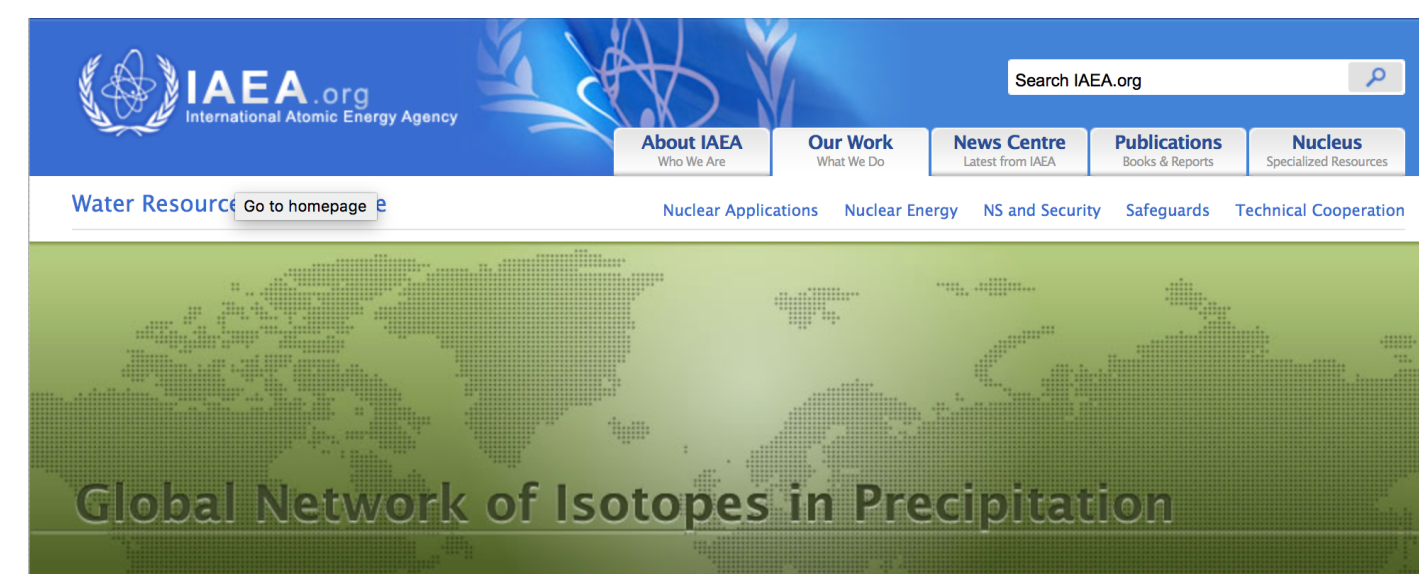
IGSN: DSR00050U



IGSN:	DSR00050U
Sample Name:	VM28-328A
Other Name(s):	
Sample Type:	Core
Parent IGSN:	Not Provided



Share: Data



Open
Core Data



HYDROSHARE

Magic



Neotoma



LinkedEarth



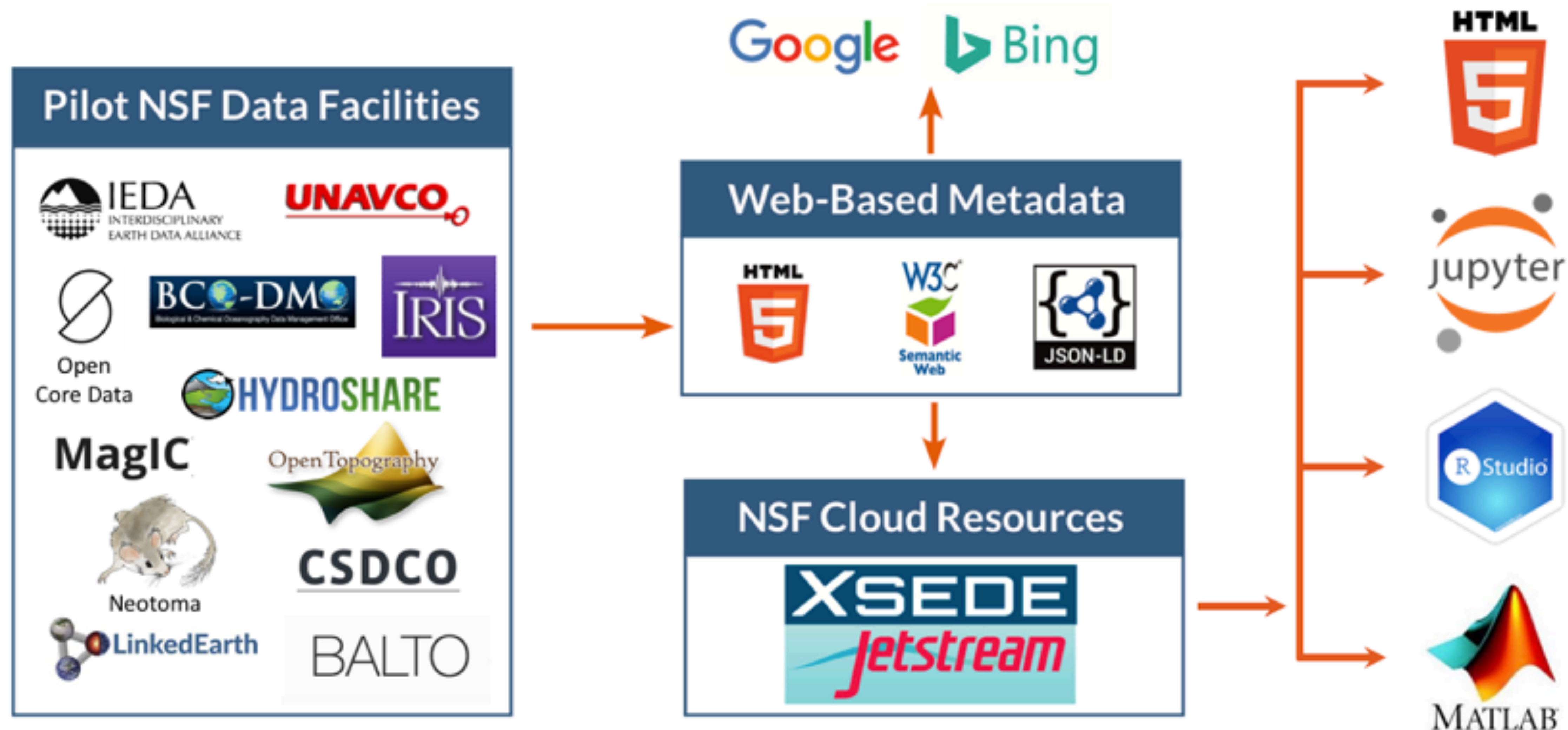
OpenTopography

CSDCO

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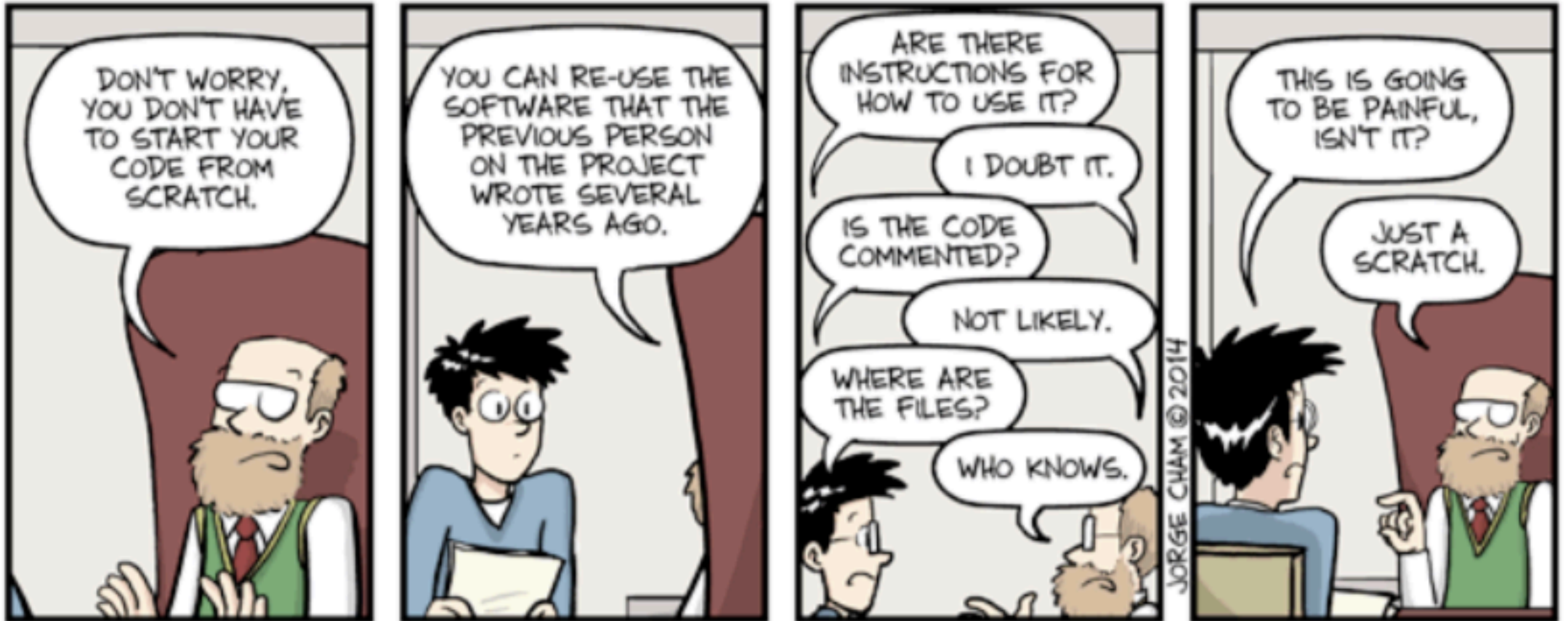
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WHY IS SCIENTIFIC SOFTWARE NOT SHARED?

- ▶ “No one would use my code if I shared it”
- ▶ “My code is really bad”
- ▶ “My code is not ready to be shared”
- ▶ “Sharing my software will take a lot of time”
- ▶ “I won’t get anything out of sharing my software”
- ▶ “I’ve shared software before, bad things happened”
- ▶ “I work for the government”
- ▶ “I want to commercialize my software”
- ▶ “I don’t want anyone to commercialize my software”
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Deborah Khider; Feng Zhu; LinkedEarth; Julien Emile-Geay

New release of Pyleoclim that fixes issues with .so files.

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Deborah Khider, Feng Zhu, LinkedEarth, & Julien Emile-Geay. (2018, April 5).
LinkedEarth/Pyleoclim_util: v0.4.7 Release (Version 0.4.7). Zenodo.
<http://doi.org/10.5281/zenodo.1212692>

Citation



<http://www.ontosoft.org>

Pyleoclim

[Deborah Khider]



HTML

RDF/XML

JSON

★ RATE

IDENTIFY

Locate - Unique description

What is the software called ?

- Pyleoclim

What is a short description for this software ?

- Python Package for the Analysis of Paleoclimate Data

What are general categories (keywords, labels) for this software ?

- Python, Paleoclimate, Data Analysis

Is there a project website for the software ?

- <http://linked.earth/projects/jupyter-notebooks/>

[OPTIONAL] What is the DOI or any other unique identifier for this software (or software version) ?

- Version 0.2.0

Done: 100% (100% optional)



Locate

unique description



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UNDERSTAND

Trust - Quality and ratings

Who created this software? (Project, Organization, Person, Initiative, etc.)

- Deborah Khider

Are there any additional contributors of note for this software ?

- Julien Emile-Geay, Feng Zhu

What useful features of this software are worth highlighting ?

- Compatible with LiPD format

[OPTIONAL] Who is the publisher of this software if not the author ?

[OPTIONAL] How can a user get support for the software ? (eg. Report bugs, request features and extensions, etc)

- Report bugs on our Github page or by emailing linkedearth@gmail.com

[OPTIONAL] Has the software been adopted in a project, organization or by a person?

- LinkedEarth

[OPTIONAL] Is there any information about uses of this software (papers, research labs, etc) ?

[OPTIONAL] Are there any statistics of its use ?

[OPTIONAL] Are there any publications where the software is used ?

[OPTIONAL] Is there any benchmark information about the software ?

- <https://pythonhosted.org/pyleoclim/>

[OPTIONAL] What are the funding sources for this software?

- National Science Foundation Grant Number ICER-1541029

[OPTIONAL] What are the ratings for this software?

Done: 100% (54% optional)



Trust
quality and ratings

Relate
domain knowledge



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Relate - Domain knowledge

What are domain specific keywords for this software ? (eg: hydrology, climate)

- Paleoclimatology

[OPTIONAL] Is there any other similar software that you know of ?

- GeoChronR

[OPTIONAL] What are the recommended uses and assumptions for the software ?

- Visualization and analysis of paleoclimate data in the LiPD format

[OPTIONAL] Are there any constraints on use, situations it is not designed for, simplifications ?



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EXECUTE

Access - Download

What is the URL for the code ?

- https://github.com/LinkedEarth/Pyleoclim_util

What license is the code released under ?

- GNU General Public License v3.0

[OPTIONAL] Is there a URL for the executable ?

- <https://pypi.org/project/pyleoclim/>

Install - Execution requirements

Is there any on-line documentation about the software ?

- <https://pythonhosted.org/pyleoclim/>

What language(s) is the software written in ?

- Python

What Operating Systems can the software run on ?

- Mac OSX, Linux

How can one install the software ?

- pip install pyleoclim

What other software does the software require to be installed ?

- Dependencies are automatically installed with the pyleoclim setup

[OPTIONAL] Are there estimates of how long it takes to run this software on average ?

[OPTIONAL] Are there any memory requirements for this software ?

[OPTIONAL] Are there any other important details about the implementation of this code (parallelization, special hardware, etc) ?

- Some functions are optimized to be run on parallel machines

Done: 100% (40% optional)



Access

download

Install

execution requirements

Run

testing execution



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Run - Testing execution

Is there any test data available for the software ?

- **Test Data Location:** https://github.com/LinkedEarth/Pyleoclim_util/tree/master/Example
Test Data Description: LiPD files downloaded from the LinkedEarth wiki: wiki.linked.earth

[OPTIONAL] Are there any specific instructions for testing the software ?



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DO RESEARCH

Experiment - Run with other data

What input files does the software require ?

- **File Id:** Text/Excel, any files that can be imported into Python numpy arrays
File Type: LiPD files

What are the input parameters used for this software?

- Path to LiPD file(s)

What output files does the software produce ?

- **File Id:** Image files (.eps, .jpeg, .pdf)
File Type: LiPD files (.lpd)

[OPTIONAL] Are there any relevant data catalogs that can be used with this software ?

- wiki.linked.earth

Compose - Run with other software

What other software can interoperate with this one?

- LiPD utilities

[OPTIONAL] Is this software typically used with other software in a workflow ? (eg: for visualization, preprocessing, postprocessing, etc)

- **Compatible Software:** LiPD Utilities
Workflow Description: Import a LiPD file using the LiPD utilities, filter the needed time series objects

Cite - Scientific publications

Is there a preferred publication or citation for this software ?

- **Citation Text:** **Citation Location:** https://github.com/LinkedEarth/Pyleoclim_util

Done: 100% (100% optional)



Experiment

run with other data

Compose

run with other software

Cite

scientific publications



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GET SUPPORT

Discuss - Support and community

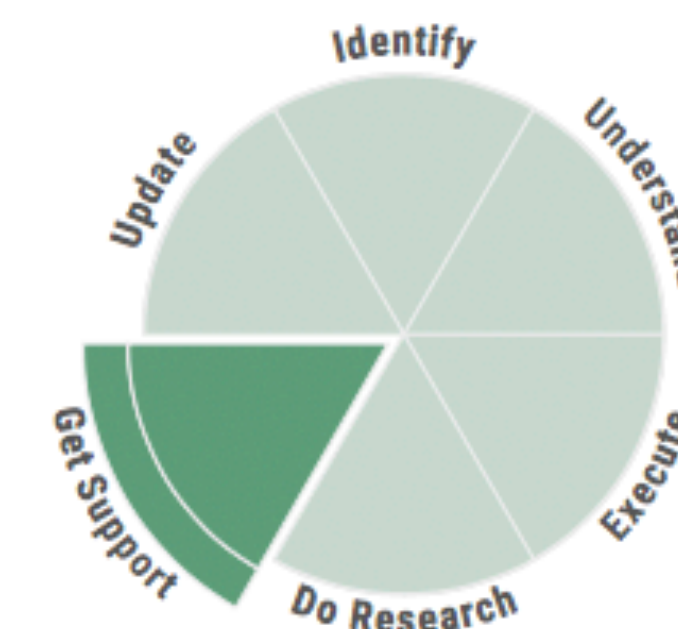
What is the e-mail contact for this software?

- linkedearth@gmail.com

[OPTIONAL] What is the support offered for this software?

- Bug report/support. No scientific advice given when using this software

Done: 100% (100% optional)



Discuss

support and community



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UPDATE

Contribute - Evolution

[OPTIONAL] How is the software being developed or maintained ?

- Developed and maintained on GitHub

[OPTIONAL] Are there any on-line resources for accessing the developer community for this software ? (eg. discussion board, wiki, etc)

- GitHub repository

Track - Versions

What versions does the software have ?

- 0.2.1

Done: 100% (100% optional)



Contribute
evolution

Track
versions



Get Credit for All Your Research



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<https://doi.org/10.6084/m9.figshare.6456074.v1>

EarthCube All Hands Meeting 2018 - LinkedEarth: Supporting Paleoclimate research with crowdsourced ontologies, software, and data standards

07.06.2018, 08:21 by [Deborah Khider](#), [Julien Emile-geay](#), [Nick Mckay](#), [Yolanda Gil](#), [Daniel Garijo](#)

Poster given at the EarthCube All Hands Meeting in 2018 in Washington D.C. on the LinkedEarth activities

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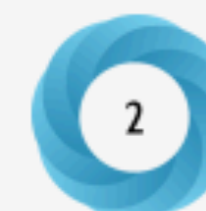
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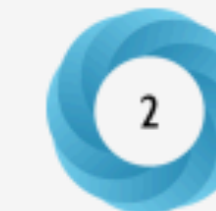
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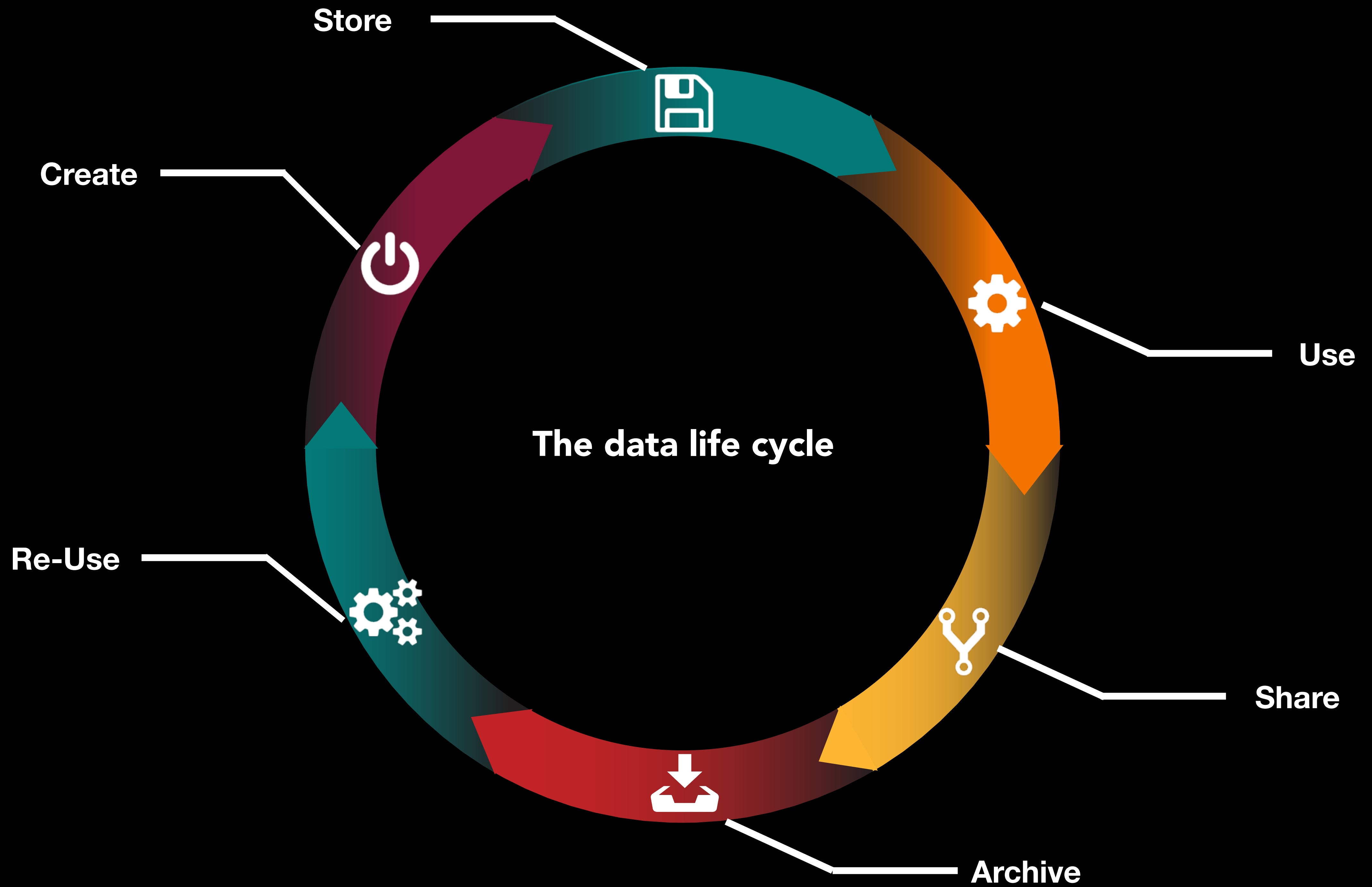
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References

- Geoscience Paper of the Future:
 - Gil, Y., & . (Ed .) .. (2016, April 17). The Geoscience Paper of the Future: OntoSoft Training (Version 9). figshare. <https://doi.org/10.6084/m9.figshare.1586773.v9>

<http://www.scientificpaperofthefuture.org/gpf/>

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doi: 10.6084/m9.figshare.6510305

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