Research Data Management Workshop

08.02.2017

Timo Gnadt, Fatih Berber



NIEDERSÄCHSISCHE STAATS- UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN SUB

Outline

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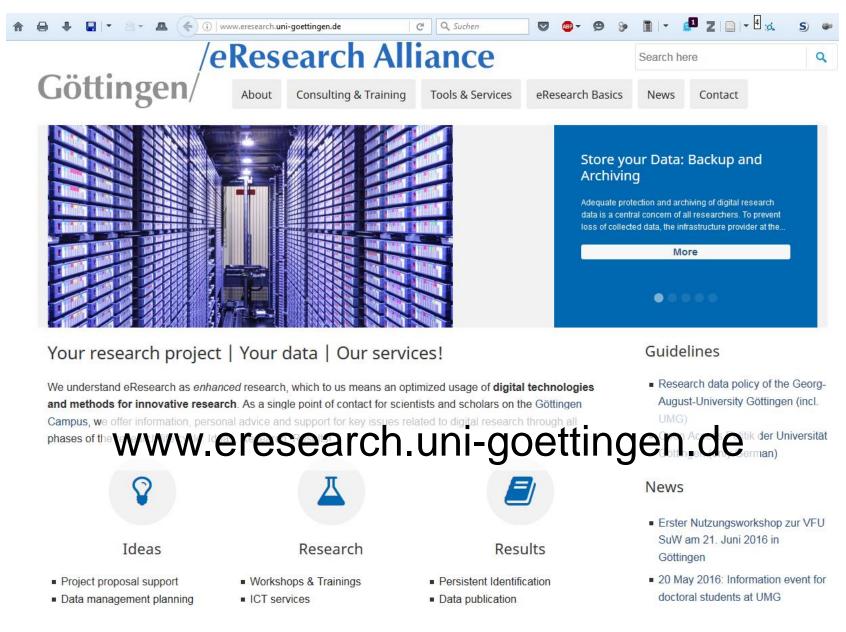
- 09:00 09:15 Welcome & Introduction
- 09:15 09:45 Research / Data / Management
- 09:45 10:15 Backup & Storage
- 10:15 10:45 Hands-On introduction to ownCloud
- 10:45 11:00 Coffee break
- 11:00 11:45 Presentations from the group & Discussion
- 11:45 12:15 Organization & Documentation

12:15 - 13:15 Lunch

- 13:15 14:00 Exercise: Data structuring
- 14:00 14:30 Data sharing and legal aspects
- 14:30 15:00 Open Access & Open Science
- 15:00 15:30 Exercise: Backup & Restore
- 15:30 16:00 Q&A and Wrap-up

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Göttingen eResearch Alliance (eRA)

- diverse backgrounds
 - mainly in natural sciences, humanities, computer science
- run mutually by •





Dr. Jens Dierkes

Physicist







Eatih Berber Computer scientist

Landscape ecologist

Dr. Ann-Catrin Fende



Computer scientist

Péter Király









Software developer and historian

Christopher Menke Computer scientist

lessika Rücknanel Information scientist

Lena Steilen Historian and cultural anthropologis

- extensive expertise on e-research related topics
- \rightarrow we are not experts in your discipline, but we can relate to your data management requirements

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What eRA can do for you

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- Consultations / support
 - Research Data Management
 - Publication strategies
 - Digital methods, software and technologies to enhance a research project
 - Information hub for experts & expertise on the whole campus
- Training
 - (like right here & now)
 - Information material / knowledge base
- Collaboration
 - Liaising project partnership
 - Project as a service

Research / Data / Management

08.02.2017



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Research Data Management

Surely you know what that is...



... and how to do it. Right?

Digital Curation Centre

What is 'data'?

"A reinterpretable representation of information in a formalized manner suitable for communication, interpretation, or processing."

A service of phenomena or the purposes of research or scholarship. Christie Burgenseller What is Research Data?

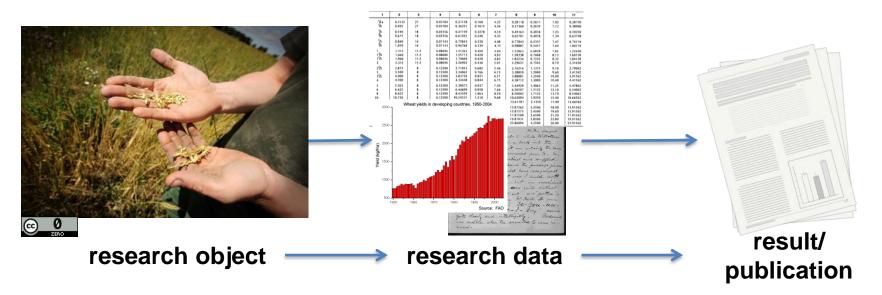
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Any information you use in your research:

statistics, interviews, simulations, measurement data from experiments, observational data from instruments, text with semantic annotations, 3D scans, model drawings, numerical representations, ...

Video, audio, images, spreadsheets, paper documents, binary data, software, text files, lab notebooks, ...



Research Data – a valuable investment



Polarstern, CC BY-SA, *Hello, I am Bruce*, http://www.flickr.com/photos/24049533@N00/2751603002

as of 2017/02/08

Research data – a valuable investment



Source: <u>European Space Agency: Rosetta and Philae at comet</u>, on flickr. CC-BY-SA-2.0

Rosetta & Philae Duration:

- >10 years preparation
- 10 years from start to data

Costs:

• over € 1.000.000.000

Outcome:

- some cool photos
- lots of data
- a radically new theory on the origin of the universe?

What is research data management?

Organizing

Structuring

Storage (

Backing up

Choosing technology

Preservation

Documenting

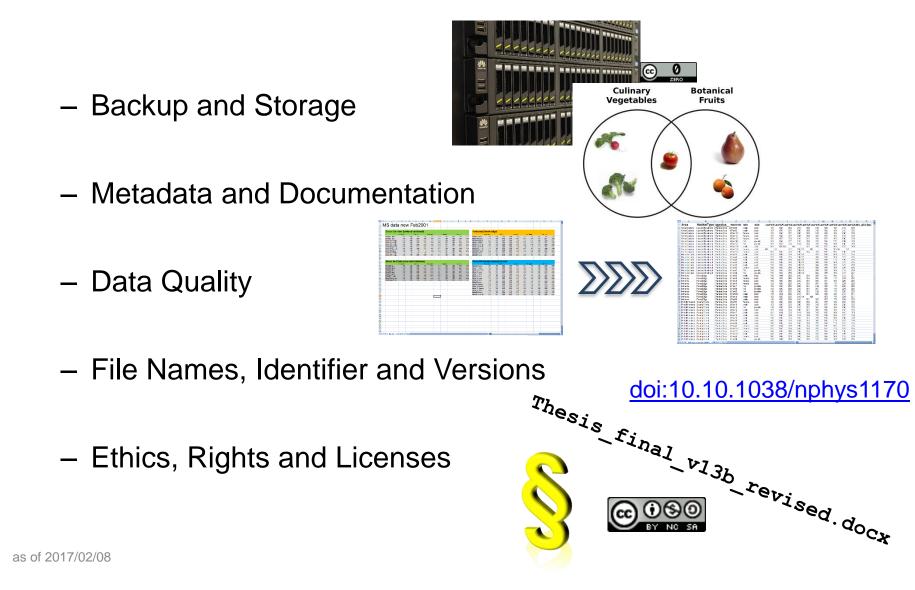
Versioning

Sharing

Curation

Security

What is Research Data Management?



Research Data Policy of the Georg-August Universität Göttingen

- Officially issued on 28th August 2014
- One of the first German universities with such a policy
- Topics addressed:



- Data Management Plans
- Support, training and provision of services
- Storage location
- Ethical and legal standards
- Open Access



eResearch Alliance: support and advice on the implementation of the RDP for the Göttingen Campus



Why Research Data Management?

1. Improve your research

- prevent data loss
- prevent unnecessary work
- better data quality

2. Good Scientific Practice

- reproducibility, accountability and compliance
- "Primary data as the basis for publications shall be securely stored for ten years in a durable form in the institution of their origin." (DFG, Proposals for safeguarding good scientific practice, 1998)
- Requirement from DFG: every new project proposal has to explain how it will deal with research data and whether it will be shared.

3. Data Sharing with Colleagues

- > Research can be very expensive and the only result of long research journeys may be data.
- > Data management costs are small in comparison to data creation costs.
- Productive data sharing is simply a matter of efficiency.

Why Research Data Management?



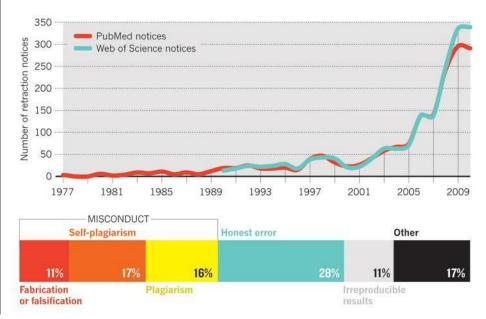
Why Research Data Management?



Why Research Data Management?

RISE OF THE RETRACTIONS

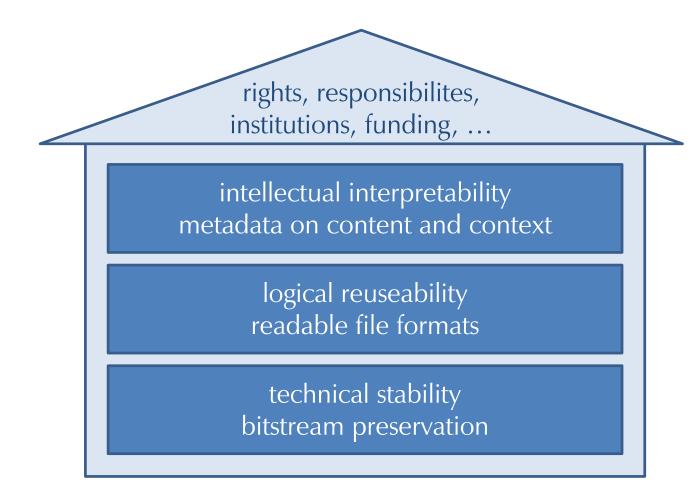
In the past decade, the number of retraction notices has shot up 10-fold (**top**), even as the literature has expanded by only 44%. It is likely that only about half of all retractions are for researcher misconduct (**middle**). Higher-impact journals have logged more retraction notices over the past decade, but much of the increase during 2006–10 came from lower-impact journals (**bottom**).



Why Research Data Management?

- 1. Improve your research
- 2. Good Scientific Practice
- 3. Data Sharing with Colleagues
- 4. Data Publication
 - Required by increasing number of journals
 - Get credit for your data!
- 5. Enable new kinds of research
 - Feedback loops between empirical and modeling approaches
 - Initiating research questions in completely different fields

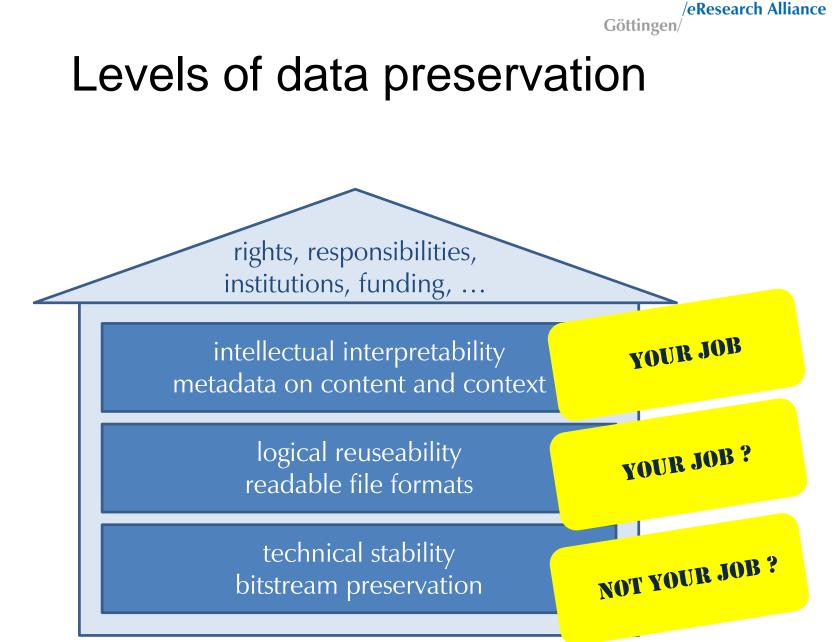
Levels of data preservation



Data preservation motivation

Video: "Data Management SNAFU in 3 short acts" By NYU Health Sciences Library

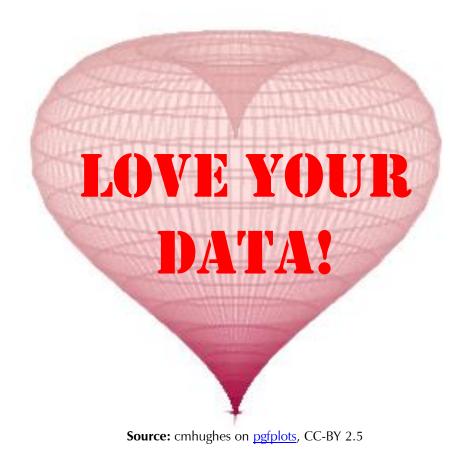
https://www.youtube.com/watch?v=66oNv_DJuPc



Publications are arguments made by authors, and data are the evidence used to support the arguments.

(Christine Borgmann, 2014)

The deeper meaning of Research Data Management



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Backup & Storage

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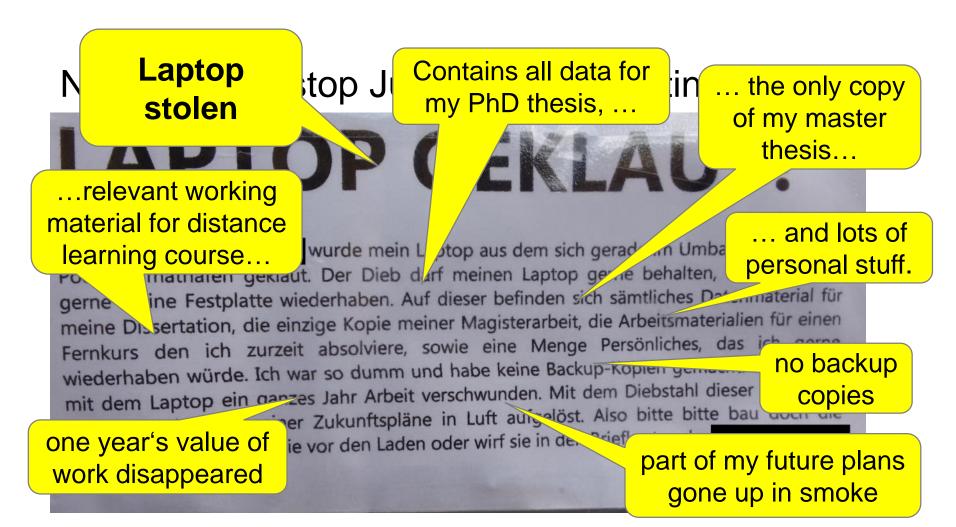
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Discussion: Backup

Check for yourself:

- How do you backup your research data?
- How often do you do it?
- Have you ever tried to recover a deleted file?
- Can you return to a previous version of a file?
- Who is responsible for Backup and Storage services at your institute?

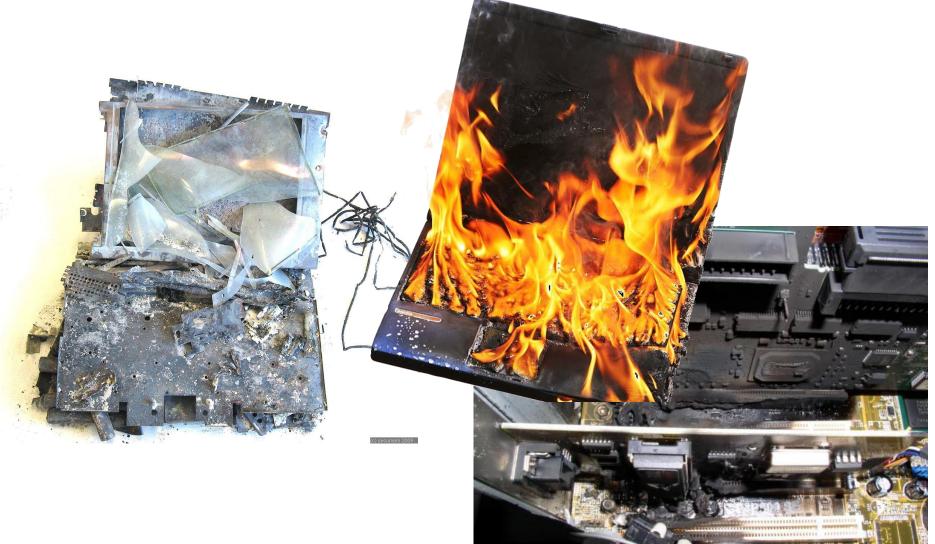
Why Backup?



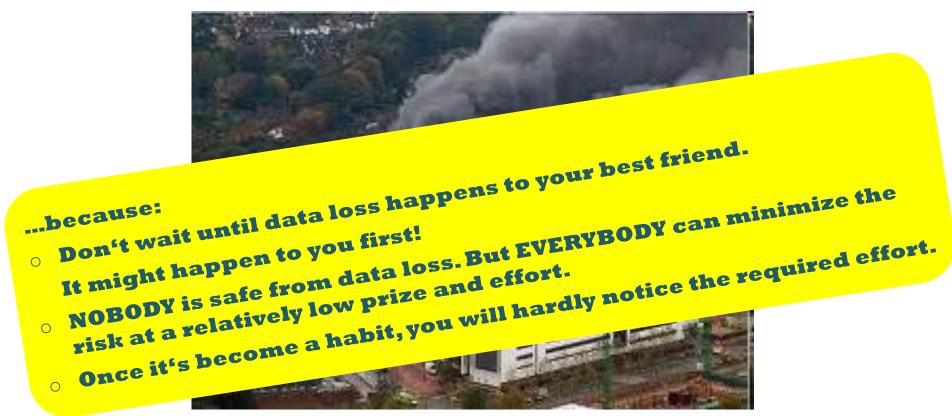
Why Research Data Management?

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Why Backup?



Source: University of Southampton, School of Electronics and Computer Science, 2005

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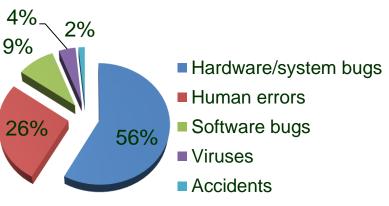
Sources of data loss

- Malware / Theft / Destruction
- Software failures
 - Program errors / bugs / software updates
 - Features

 (e.g.: Dropbox overwriting on synchronization)
- Hardware failures
 - Bad design / cheap parts / defects
 - Age
 - Dropped laptops / HDDs
 - Liquids (water, coffee, coke)
 - Lightning strikes / electric pulses
- Human errors
 - Accidental deletion
 - Missing knowledge



Source: <u>a man working at home while eating breakfast</u> by Socialeurope via flickr: https://www.flickr.com/photos/socialeurope/4303391587, CC-BY-NC-SA 2.0



Source: Kroll Ontrack, 2007, Robin Harris, http://www.zdnet.com/blog/storage/how-data-gets-lost/167

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Further reading: disasters and tales of data loss, statistics on how data gets lost

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Sources of data loss



as of 2017/02/08

Further reading: disasters and tales of data loss, statistics on how data gets lost

Costs of data loss

Hours

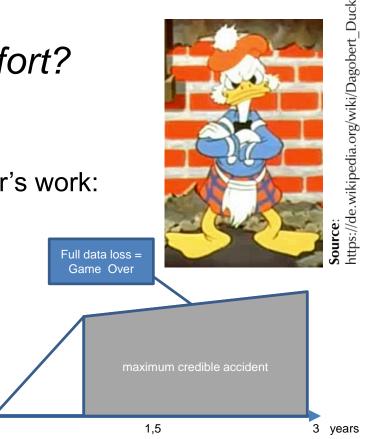
spent

Is backing up really worth the effort?

- PhD or postdoc salary costs for employer: over € 60.000 / year *
- Estimated costs for losing data of one year's work: usually even higher
- Besides, you can lose a lot of time ... and possibly your nerves
- Required investments:
- External hard drives start at € 50,-
- Backup Software is included in most modern operating systems

When will you start? When will you be required to?

* DFG staff appropriation rates for 2016: http://www.dfg.de/formulare/60_12/60_12.pdf as of 2017/02/08



Backup: Types, Methods & Media

Backup Types:

- manually vs. automated

Backup Methods:

- full vs. incremental vs. differential

Backup Media:

- USB Sticks: cheap, small (also in storage), *but:* not very reliable
- USB HDD: sufficient storage, affordable, *but:* not shock resistant
- USB SSD: mostly very resilient, *but:* more expensive, often not recoverable
- NAS: safer, more features, *but:* even more expensive, more complex
- Cloud Services (Dropbox, Skydrive, FigShare etc.):
 - File safety is not covered by service terms, several cases of data loss in the past
 - not suitable for personal or sensitive data (since Snowden: no excuses anymore)
 - Internet access can be bottleneck when doing a full restore
- Central Network drives at University institutes / MPIs
 - Mostly rely on professional hardware
 - Should be one central part in your backup strategy
 - BUT: Check their backup policy
 - AND: Can you access it when you need it?



Storage media lifetime

- Good Scientific Practice demands data provision on safe & durable storage devices.
- CDs or hard discs are not durable over a time span of 10 years!

Medium	Practical Physical Lifetime	Avg. Time Until <u>Obsolete*</u>
Optical (CD)	10–30 years	5 years
Magnetic Disk	5–10 years	5 years
Digital Tape	1–50 years**	5 years
Analog Videotape	1–10 years**	5 years

* For a particular format of the given type
** Tape lifetime is highly variable, depending on storage conditions

Source: National Archives and Records Administration (2011)

What if it's too late?

- Professional recovery
 - Professional recovery in clean rooms for disassembling
 - Special tools for analysing and recovery
 - Spare parts for old hardware
- Process:

as of 2017/02/08

- Analysis (costs money too)
- Presentation of possible recoverable files (and its price)
- On payment, data are recovered on new hard drive
- Prices are high (usually above 500 € per drive)

Many failures are not recoverable at all!

Source: Burnt Laptop by secumem via

Wikimedia Commons: CC-BY-SA 2.0

Source: <u>Shattered!</u> by Simon Yeo via flickr: https://www.flickr.com/photos/smjb/7904610856, CC-BY 2.0



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Backup principles

3-2-1

ONCE /

- Create multiple backups
- Expect human errors (keep older versions)
- Do not use backup drives for sharing files
- Store backups physically separate from your PC / laptop
- Check your backups regularly
- Practice the worst case and make a full recovery dry-run
- Discuss the topic with friends to learn their best-practices
- Include your mobile devices in your planning



3 copies



Backup: Example strategy

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- Use an institutional backup solution (e.g. Active Directory)
- Have external harddisks available for backup •
 - at your office

AND

- at home
- Backup daily to the office harddisk •
 - Ideally before you go home
- DO IT. **Backup weekly at** ULARLY. Identify a consistent time G
- Test both backups at least once a month
 - restore a random number of files or folders and verify their content
- Replace both harddisks after 3-4 years ٠
 - Allow some overlap time

Example Strategy (paranoia version)

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- One Apple MacBook and one Windows 8 Desktop PC
- 4 USB HDD 2 for every computer (2 Windows 2 Max)
 - 1 pair is located at my office (I can access files from backup fast)
 - 1 pair is located at home (if my office or my home burns)
 - The pairs are swapped every two weeks and stored in lockers
- Google-Calendar Event to get a reminder: E-Mail every week
- Automatic backup once a week when attaching the drive to PC
 - Apple OSX: Time machine backup
 - Windows: File Recovery
- Check file system of USB HDD after every backup
- → Files are stored 3 times per computer
- Replace HDD after getting errors or at least every two years
- Cost: 240 Euro -> 120 Euro per year -> 10 Euro per month

Backup software

Operating system	Integrated Backup SW	Comments
Windows 7	File Recovery	 Needs adjustment to copy other folders than the local libraries Can create bootable image
Windows 8 & 10	File History	 Only backs up local libraries Can be adjusted by creating custom libraries and <i>excluding</i> folders Cannot create bootable image
Mac OS	Time Machine	 Backs up everything except for what is excluded Can use encryption Can even be used to recover a not-bootable Mac
Ubuntu	Déjà Dup	Uses encryption, compressionCan use cloud storage
Operating system	Free Third Party	/ Backup SW
Windows	Personal Backup, I	PureSync, Paragon Backup&Recovery, Robocopy,
Mac OS	Carbon Copy Clone	er, SuperDuper,
Ubuntu	Rsync, Back in Tim	ie

GWDG solutions

Name	Backup	Sharing	Comment
Fileservice / Active Directory	Yes	Maybe	Network drives, e.g. P:, but maybe more Automatic backup
IBM Tivoli Storage Manager (TSM)	Yes	No	Offer to institutes fro centralized backup of all local working machines
CrashPlanProE	Yes	No	Individual Backup solution GWDG license: €26,- per year
CloudShare	Yes	Yes	Free: 10 / 50 GB
ownCloud	Yes	Yes	Free: 10 / 50 GB
CryptShare	No	Yes	Only for MPG
Hierarchical Storage Management (HSM) ^{7/02/08}	No	No	For archival of data from closed project

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Yes, we store – what for?

	Backup	Archival	Depositing
Storage Purpose	Ability to restore data in case of data loss or error propagation	Enable validation by peers through persistent storage of data used for research results / publication	Enable verification, citation & reuse of datasets (data sharing)
Data Characteristics	Duplication of current work data & intermediate work results	Archive format (e.g. zip) containing all related & relevant data / files (ideally incl. metadata)	Format specified by repository; discipline-specific metadata standards
Process Regularity	Regularly during work phase or project runtime	Once for each relevant dataset, usually at the end of or after work phase	Once for each selected dataset, either during or after work phase
Effort	Depends – e.g.: set up once, verify regularly	Establish predefined procedure with data archive (e.g. data center)	Process documented, sometimes guided by repository

Hands-On: Using ownCloud

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Presentations from the group

08.02.2017



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Organization & Documentation

08.02.2017



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SUB GWDG

Why organize?



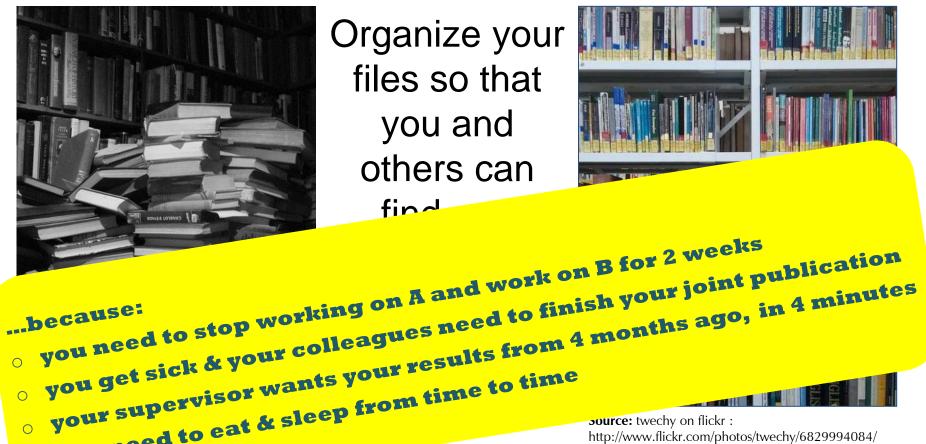
Organize your files so that you and others can find and access things when you need them



Source: twechy on flickr : http://www.flickr.com/photos/twechy/6829994084/

By austinevan on flickr: http://www.flickr.com/photos/austinevan/1225274637/

Why organize?



Organize your files so that you and others can find



you need to eat & sleep from time to time http://www.flickr.com/photos/twechy/6829994084/

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File naming conventions

To stay organized, you should define:

- USE WHAT WORKS FOR YOU A self-describing folder structure or tagging scheme ٠
- What information should be in filenames ٠
- How filenames should be structured •
- How to refer to files •

... especially when working in a team!

Self-speaking file name:

Presentation RTG1644 20170208 V42.pptx

vs. short file name:

RTG1644 final.pptx

Original file name:

PICT7639.jpg

Custom file name:

20161103_exp01_prb03_001.jpg

AND STICK TO

T' !





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Versioning

Presentation_RTG1644_20170208_V13.pptx Presentation_RTG1644_20170208_V13final.pptx Presentation_RTG1644_20170208_V13new-final pptx Presentation_RTG1644_20170208_V13final-finalv1.pptx Presentation_RTG1644_revised_v01a.pptx

Best practice:

- Save a new version of a file with a **new name** before continuing work
- Use consecutive version numbers and eventually author initials
 - no "final" or other unreliable descriptors in filenames
 - Rather **use folders** to mark/sort different purposes and avoid confusion
- If you collaborate on a document, **use "track changes"** if possible

Folder structure

Use (sub)folders to organise your files, e.g.:

- Literature (primary literature)
- Publications (your own articles)
- Thesis (files relevant for your PhD-Thesis)
- Emails (archived important e-mails, as PDF)
- Projects (material from other projects/side-projects)
- Pictures (images, graphs, illustrations, logos, ...)
- Experiments (e.g. experiment or survey designs)
- Data ("raw" datasets, separated from processed data)

(How) Do you organise your e-mail inbox?

No Folder structure

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Alternative: use tagging / metadata to describe your files

- Content type (literature, publication, experiment design, data,...)
- Project context (researchers/SPs involved,
- Topic
- Time (and place) of recording, creation, acquisition
- Related material
- + Any other information you or others might need to quickly find a specific file

Best practice (suggestion):

- Use a maximum of two levels of folders
- Put other relevant information in the file name
- Use tagging/metadata to the extent you feel comfortable with
 - and to the extent your OS supports it

Explain it

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CA	06	001	06001	1,443.74	1,266.88
CA	06	003	06003	1.21	0.60
CA	06	005	06005	35.10	26.82
CA	06	007	06007	203.17	164.77
CA	06	009	06009	40.55	35.61
CA	06	011	06011	18.80	11.74
CA	06	013	06013	948.82	927.68
CA	06	015	06015	27.51	18.44
CA	06	017	06017	156.30	143.54
CA	06	019	06019	799.41	757.68
CA	06	021	06021	26.45	14.19
CA	06	023	06023	126.52	110.17
CA	06	025	06025	142.36	136.96

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Explain it

State postal abbreviation	State FIPS code	County FIPS code	Combined State-county FIPS codes	Total population of county, in thousands	Public supply, total population served, in thousands
CA	06	001	06001	1,443.74	1,266.88
CA	06	003	06003	1.21	0.60
CA	06	005	06005	35.10	26.82
CA	06	007	06007	203.17	164.77
CA	06	009	06009	40.55	35.61
CA	06	011	06011	18.80	11.74
CA	06	013	06013	948.82	927.68
CA	06	015	06015	27.51	18.44
CA	06	017	06017	156.30	143.54
CA	06	019	06019	799.41	757.68
CA	06	021	06021	26.45	14.19
CA	06	023	06023	126.52	110.17
CA	06	025	06025	142.36	136.96

Image from: <u>https://www.e-education.psu.edu/geog860/print/l2.html</u> Data courtesy of the U.S. Geological Survey.

Explain your data

- Why?
- > Make data *FAIR*: Findable, Accessible, Interoperable, Reusable!
- > Not only for others, but also mainly **for yourself**!
- How?
- Directly write down which methods/materials you used. Write down what fails and what was successfully analysed.
- Write down time, place, persons involved in creation of data.
- Include title, name of primary and processed data.
- Add a text file with this information to each data file/folder or: keep an overview spreadsheet
- Do not change/erase your original notes but add more infos chronologically (with date of insertion).

What are metadata?

- Many definitions depending on the perspective
- Practical approach: metadata...
 - describe objects in a structured and standardised way
 - can help to select and identify resources
 - can describe how to use them correctly or how to reproduce them
 - can describe anything: literature, a painting, places, a dataset, ...
 - can be connected with objects (embedded) or added separately

What to include?

Who created what,



Timo Gnadt gnadt@sub.uni-goettingen.de

abs 0.4 34 36 35 0.5 2 777 535 2.6 67 63 1.3 61 5 4

Excel spreadsheet with test data for training purposes

how,



Used random number generator to modify original field data

when,



July 26 2016



At my office

Windows PC

CAN SOMEBODY ELSE

where and why?

To be used in

training workshop

- Include:
 - **Description** of the item
 - Methodology
 - **Units** of measurement
 - UNDERSTAND YOUR DATA **References** to related data
 - **Definitions of** jargons, acronyms, code
 - **Technical information** about the file

"Metadata describe objects in a structured and standardised way..."

Many existing metadata standards, e.g.:

Dublin Core Metadata Element Set (15 optional elements)

ID:	identifier
Technical Data:	format, type, language
Content:	title, subject, coverage, description
Persons & Permissions:	creator, publisher, contributor, rights
Provenance:	source, relation
Life cycle:	date

Can be extended to 55 elements (DCMI Metadata Terms):

abstract, accessRights, accrualMethod, accrualPeriodicity, accrualPolicy, alternative, audience, available, bibliographicCitation, conformsTo, created, dateAccepted, dateCopyrighted, dateSubmitted, educationLevel, extent, hasFormat, hasPart, hasVersion, instructionalMethod, isFormatOf, isPartOf, isReferencedBy, isReplacedBy, isRequiredBy, issued, isVersionOf, license, mediator, medium, modified, provenance, references, replaces, requires, rightsHolder, spatial, tableOfContents, temporal, valid

-<oai_dc:dc>

-<dc:title>

Sociology of Religion: Exercises Using General Social Surveys, 2000-2002 [Instructional Materials] </dc:title> <dc:creator>Nelson, Edward E.</dc:creator>

<dc:subject>Bible</dc:subject> <dc:subject>Christianity</dc:subject> <dc:subject>church attendance</dc:subject> <dc:subject>instructional materials</dc:subject> <dc:subject>instructional modules</dc:subject> <dc:subject>pornography</dc:subject> <dc:subject>prayer</dc:subject> <dc:subject>religion</dc:subject> <dc:subject>religious attitudes</dc:subject> <dc:subject>religious behavior</dc:subject> <dc:subject>religious beliefs</dc:subject> <dc:subject>religious fundamentalism</dc:subject> <dc:subject>social issues</dc:subject> <dc:subject>sociology</dc:subject> <dc:subject>ICPSR.X.A.3</dc:subject> <dc:subject>ICPSR.XVI.A</dc:subject>

-<dc:description>

These instructional materials were developed from GENERAL SOCIAL SURVEYS, 1972-2002: [CUMULATIVE FILE], compiled by James A. Davis, Tom W. Smith, and Peter V. Marsden. The data file (an SPSS portable file) and accompanying documentation are provided to assist educators in instructing students about religion and social issues in the United States in the late 20th and early 21st centuries. An instructor's handout has also been included. This handout contains the following sections, among others: (1) an exercise using General Social Surveys data to create and validate a measure of religiosity, and then to relate the measure to other social variables, (2) an exercise using General Social Surveys data to explore the relationship between religiosity and other social variables using crosstabulation (focusing on two- and three-variable relationships) and to explore the concepts of explanation, spuriousness, and replication, and (3) an exercise using General Social Surveys data to create a measure of religious fundamentalism and to explore the relationship between this measure and various forms of religious behavior and opinions on social issues. The data contain information on the attitudes of a national probability sample of adults 18 years of age and older on a range of social and political issues. For this instructional subset, some variables were recoded and some new variables were created to facilitate analysis. Variables in the dataset include responses to questions on family and gender roles, abortion, sex and sexual materials, personal morals and social mores, social control, general political attitudes, and social social sut.

</dc:description>

<dc:date>2005-01-07</dc:date> <dc:type>survey data</dc:type> <dc:identifier>3719</dc:identifier> <dc:identifier>10.3886/ICPSR03719.v2</dc:identifier> <dc:source>personal interviews</dc:source> <dc:coverage>United States</dc:coverage> <dc:coverage>2000--2002</dc:coverage>

-<dc:rights>

ICPSR metadata records are licensed under a Creative Commons Attribution-Noncommercial 3.0 United States License (http://creativecommons.org/licenses/by-nc/3.0/us/).

</dc:rights>

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Some metadata standards for statistical data

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- RDF Data Cube Vocabulary
 - For publishing multi-dimensional data on the web for linking to related data sets and concepts using the W3C RDF (Resource Description Framework) standard
 - Underlying model compatible with SDMX
- SDMX Statistical Data and Metadata Exchange
 - set of common technical and statistical standards and guidelines for efficient exchange and sharing of statistical data and metadata
 - Sponsoring institutions include BIS, ECB, EUROSTAT, IMF, OECD, UN, and the World Bank
- DDI Data Documentation Initiative
 - widely used, international XML-based standard for describing data from the social, behavioral, and economic sciences
 - DDI Codebook intended for documenting simple survey data for exchange or archiving
 - DDI Lifecycle for documenting datasets at each stage of their lifecycle from conceptualisation through to publication and reuse. modular and extensible.
- Genome Metadata
 - consists of 61 different metadata fields (attributes), organized into seven categories:
 Organism Info, Isolate Info, Host Info, Sequence Info, Phenotype Info, Project Info, and Others.

Exercise: Structuring data

08.02.2017



NIEDERSÄCHSISCHE STAATS- UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN

Why structure(d) data?

- Enable searching by variables
- Enable partial download of datasets
- Make standardized data description easier
- Facilitate future readability (logical reusability)

Example from genetics

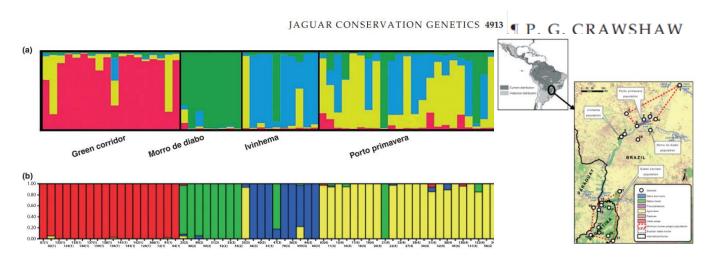
MOLECULAR ECOLOGY

Molecular Ecology (2010) 19, 4906-4921

doi: 10.1111/j.1365-294X.2010.04856.x

The effect of habitat fragmentation on the genetic structure of a top predator: loss of diversity and high differentiation among remnant populations of Atlantic Forest jaguars (*Panthera onca*)





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Example from genetics

IS data			⊧ eh2			Н		J	К	LI	A N	0	Р	Q	R	S	T	U	V	W	Х
Green Corri										-	Ivinhema (
	FCA742		FCA723		CA740		FCA441		CA391			FCA742		CA723		FCA740		FCA441		CA391	
bPon01 male bPon02 male	160 160	160 170	236 232	240 236	308 308	312 312	165 169	169 169	219 215	235 235	bPon35 male bPon46 female	154 142	164 158	236 240	240 240	304 304	308 304	157 169	165 173	215 231	231 235
bPon133 female	156	160	232	236	300	312	169	169	235	233	bPon40 female	166	166	236	240	304	304	157	169	223	235
bPon134 female	152	160	232	232	308	308	157	165	219	235	bPon41 female	158	166	236	240	304	304	169	173	231	239
bPon135 female	162	172	236	240	312	316	157	165	235	239	bPon47 juvenile	158	158	236	236	304	312	169	173	235	239
bPon140 juvenile	160	160	232	240	308	312	165	177	239	239	bPon78 juvenile	158	160	240	240	304	304	169	173	231	235
bPon137 juvenile	160	172 170	236 0	244 0	300 312	312 312	169 157	169 165	235 223	243 243	bPon36 juvenile	142 158	158 164	236 240	236 240	304 304	312 308	169 169	173 169	235 215	235
bPon139 male bPon138 female	162 0	1/0	232	256	312	312	157	165	223	243	bPon359 male bPon44 male	158	164	240	240	304	308	169	169	215	231 231
bPon136 female	162	170	236	236	304	312	165	165	235	239	bPon80 male	146	150	240	240	304	308	173	173	231	235
Morro do D								swamp													
bPon25 male	FCA742 158	F 188	ECA723 236	240	CA740 >300	312	FCA441 169	f 169	CA391 227	235	bPon03 female	FCA742 160	F 166	CA723 220	236	FCA740 300	304	FCA441 157	169	CA391 223	235
bPon25 male bPon48 male	150	166	236	240	>300	304	169	169	227	235	bPonUS remaie	158	166	220	236	300	312	157	169	225	235
bPon49 male	166	188	236	240	>300	312	169	173	235	235	bPon15 juvenile	146	160	220	240	304	304	165	169	235	235
bPon50 male	158	166	236	236	>300	304	169	169	227	235	bPon16 male	158	164	236	236	304	308	165	165	215	235
bPon51 male	158	158	236	236	>300	304	169	169	227	239	bPon17 male	154	164	236	244	308	312	165	169	215	223
bPon52 female	142	158	236	236	>300	304	169	169	235	235	bPon18 male	154	158	240	244	308	312	169	169	223	239
bPon53 juvenile	158 158	158 158	236 236	236 236	>300 >300	304 304	169 169	169 169	215 215	239 227	bPon19 male	146 164	158 166	236 236	240 244	304 304	312 308	169 165	169 173	235 223	239 239
bPon54 juvenile	100	100	230	230	>000	304	169	169	215	221	bPon20 male bPon38 male	164	188	236	244 240	304	300	165	173	223	239
											bPon45 female	142	154	220	236	304	312	165	165	215	235
											bPon130 female	152	170	236	240	300	312	157	173	215	235
											bPon131 female	146	166	240	240	304	312	165	169	235	239
											bPon132 male	142	158	236	236	304	312	165	169	239	239
											bPon58 female bPon24 juvenile	142 158	166 164	220 236	240 240	304 308	312 312	165 165	169 169	215 223	239 235
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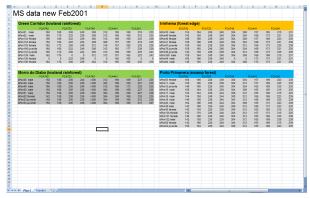
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Structure these data

B			E		G	Н	1	J	К	L	MN	0	Р	Q	R	S	Т	U	V	W	Х
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Green Corri	idor (lov	/land r	ainfore	est)							lvinhema (forest e	dge)								
	FCA742	F	CA723	F	CA740	F	CA441	F	CA391			FCA742	F	CA723	1	FCA740	1	FCA441	F	CA391	
bPon01 male	160	160	236	240	308	312	165	169	219	235	bPon35 male	154	164	236	240	304	308	157	165	215	231
bPon02 male bPon133 female	160 156	170 160	232 232	236 236	308 300	312 312	169 169	169 169	215 235	235 239	bPon46 female bPon40 female	142 166	158 166	240 236	240 240	304 304	304 308	169 157	173 169	231 223	235 235
bPon134 female	152	160	232	232	308	308	157	165	219	235	bPon41 female	158	166	236	240	304	304	169	173	231	239
bPon135 female	162	172	236	240	312	316	157	165	235	239	bPon47 juvenile	158	158	236	236	304	312	169	173	235	239
bPon140 juvenile bPon137 juvenile	160 160	160 172	232 236	240 244	308 300	312 312	165 169	177 169	239 235	239 243	bPon78 juvenile bPon36 juvenile	158 142	160 158	240 236	240 236	304 304	304 312	169 169	173 173	231 235	235 235
bPon139 male	162	170	0	0	312	312	157	165	223	243	bPon359 male	158	164	240	240	304	308	169	169	215	231
bPon138 female	0	0	232	256	0	0	165	165	0	0	bPon44 male	160	166	236	240	0	0	173	173	231	231
bPon136 female	162	170	236	236	304	312	165	165	235	239	bPon80 male	146	150	240	240	304	308	173	173	231	235
Morro do Di	iaho (lo)	vland	rainfor	est)							Porto Prim	avera (swamn	forest	1						
Monto do Di	FCA742		CA723		CA740	F	CA441	F	CA391		i onto i initi	FCA742		CA723		FCA740		FCA441	F	CA391	-
bPon25 male	158	188	236	240	>300	312	169	169	227	235	bPon03 female	160	166	220	236	300	304	157	169	223	235
bPon48 male bPon49 male	158 166	166 188	236 236	236 240	>300 >300	304 312	169 169	169 173	227 235	235 235	bPon11 male bPon15 juvenile	158 146	166 160	236 220	236 240	300 304	312 304	157 165	169 169	235 235	235 235
bPon50 male	158	166	236	236	>300	304	169	169	233	235	bPon16 male	158	164	236	236	304	308	165	165	215	235
bPon51 male	158	158	236	236	>300	304	169	169	227	239	bPon17 male	154	164	236	244	308	312	165	169	215	223
bPon52 female bPon53 juvenile	142 158	158 158	236 236	236 236	>300 >300	304 304	169 169	169 169	235 215	235 239	bPon18 male bPon19 male	154 146	158 158	240 236	244 240	308 304	312 312	169 169	169 169	223 235	239 239
bPon54 juvenile	158	158	236	236	>300	304	169	169	215	235	bPon20 male	164	166	236	240	304	308	165	173	223	239
											bPon38 male	142	188	236	240	308	312	169	173	223	235
											bPon45 female bPon130 female	142 152	154 170	220 236	236 240	304 300	312 312	165 157	165 173	215 215	235 235
											bPon131 female	146	166	230	240	304	312	165	169	215	235
											bPon132 male	142	158	236	236	304	312	165	169	239	239
											bPon58 female	142 158	166 164	220 236	240 240	304 308	312 312	165 165	169	215 223	239 235
											bPon24 juvenile	150	104	230	240	300	312	105	169	223	235
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Exercise: Structure data



- 1. Copy the file "OriginalData.xslx" from my ownCloud folder to your folder
- 2. Edit the file to bring the data into a structure suitable for upload to a repository database *without losing information*
- 3. Upload the edited file with **your name appended to the filename** to the public ownCloud folder.

What's wrong with this representation?

- Compound variables
- Redundancy
- Empty cells
- Missing headers
- Missing values and data obscurities

FIX IT! YOU HAVE 20 MINUTES!

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Summary

		/ Feb	200	1																				
	idor (lowla	and rain		FCA740		CA441	FCA			lvinhema (1	forest ed	dge)			ECA740	ECA		FCA391						
Pon02 male Pon133 female Pon134 female Pon135 female Pon135 female Pon137 juvenile Pon139 male Pon138 female	160 156 152 162 160 160 160 162 0	160 2 170 2 160 2 172 2 160 2 172 2 170 2 0 2	136 240 132 236 132 236 132 232 136 240 132 240 136 244 0 0 132 256	308 308 300 308 312 308 300 312 0	312 312 308 316 312 312 312 312 312 312 0	165 169 157 157 165 169 157 165	169 169 165 165 165 177 169 165 165	219 215 235 219 235 239 235 223 0	235 239 235 239 239 239 243 243 243 0	bPon35 male bPon46 female bPon40 female bPon41 female bPon47 juvenile bPon36 juvenile bPon359 male bPon359 male bPon44 male	154 142 166 158 158 158 142 158 142 158 160	164 158 166 158 160 158 164 166	236 240 236 236 236 240 236 240 236 240 236	240 240 240 236 240 236 240 236 240 240	304 304 304 304 304 304 304 304 304 0	308 304 308 304 312 304 312 308 0	157 165 169 173 157 169 169 173 169 173 169 173 169 173 169 173 169 169 173 169 173 173	215 231 231 235 223 235 231 239 235 239 231 239 235 235 235 235 235 235 235 231 231 231						
Pon136 female	162		236 236	304	312	165	165	235	239	bPon80 male	146	150	240	240	304	308	173 173	231 235						
in25 male	FCA742 158	FCA72	23 236 240		312	A441 169	FCA 169	227	235	Porto Prim	FCA742 160	F 166	CA723	236	FCA740 300	FC4 304	441 157 169	FCA391 223 235						
Pon48 male Pon49 male Pon50 male Pon51 male Pon52 female Pon53 juvenile Pon54 juvenile		188 2 166 2 158 2 158 2 158 2	236 236 240 236 236 236 236 236 236 236 236 236 236	>300 >300 >300 >300 >300 >300	304 312 304 304 304 304 304 304	169 169 169 169 169 169	173 169 169 169 169	227 235 227 227 235 215 215	235 235 239 235 239 227	bPon11 male bPon16 male bPon16 male bPon17 male bPon18 male bPon20 male bPon30 male bPon38 male bPon33 female bPon131 female bPon132 male bPon132 male bPon132 male bPon58 female bPon58 female	158 146 158 154 146 164 142 142 142 142 142 142 142 158	166 160 164 158 158 166 188 154 170 166 158 166 164	236 220 236 236 236 236 236 236 236 236 240 236 240 236 220 236	236 240 238 244 240 240 236 240 240 236 240 236 240 236 240 240	300 304 308 308 304 304 300 304 300 304 300 304 304 308	312 304 308 312 312 308 312 312 312 312 312 312 312 312 312 312	157 169 165 165 165 169 169 169 169 169 169 169 165 165 165 165 165 165 165 169 165 169 165 169 165 169 165 169 165 169 165 169 165 169	223 239 223 235 215 235 215 235 235 239						
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																3 (GreenCorrido	 LowlandRainfores 	PanteraOnca	bPon02	male	adult		160
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																	GreenCorrido GreenCorrido			bPon135 bPon140	female NA	adult		162 160
																	GreenCorrido			bPon140 bPon137	NA	juvenile		160
																	GreenCorrido GreenCorrido			bPon139 bPon138	male female	adult		162 NA N
																	GreenCorrido			bPon136	female	adult		162
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																	MorroDoDiab MorroDoDiab			bPon51 bPon52	male female	adult adult		158 142
																		LowlandRainfores		bPon53	NA	juvenile		158
																	MorroDoDiabi vinhema	 LowlandRainfores ForestEdge 	PanteraOnca PanteraOnca	bPon54 bPon35	NA	juvenile adult		158 154
																21	vinhema	ForestEdge	PanteraOnca	bPon46	female	adult		142
													Α				vinhema vinhema	ForestEdge ForestEdge	PanteraOnca PanteraOnca	bPon40 bPon41	female	adult		166 158
													- \			24	vinhema	ForestEdge	PanteraOnca	bPon47	NA	juvenile		158
																	vinhema vinhema	ForestEdge ForestEdge	PanteraOnca PanteraOnca	bPon78 bPon36	NA	juvenile		158 142
																	vinhema vinhema	ForestEdge	PanteraOnca PanteraOnca	bPon36 bPon359	male	adult		142
													-/			28	vinhema	ForestEdge	PanteraOnca	bPon44	male	adult		160
																	vinhema PortoPrimave	ForestEdge ra SwampForest	PanteraOnca PanteraOnca		male female	adult		146 160
																31 F	PortoPrimave	ra SwampForest	PanteraOnca	bPon11	male	adult		158
																		ra SwampForest	PanteraOnca	bPon15	NA	juvenile		146 158
																33 F	^{ontoPrimave} ^{ontoPrimave}	ra SwampForest ra SwampForest	PanteraOnca PanteraOnca	bPon16 bPon17	male male	adult adult		158
																35 F	PortoPrimave	ra SwampForest	PanteraOnca	bPon18	male	adult		154
																	PortoPrimave	ra SwampForest	PanteraOnca PanteraOnca	bPon19 bPon20	male	adult		146
																		a SwampForest				adult		
																37 F	PortoPrimave	ra SwampForest ra SwampForest	PanteraOnca	bPon38	male male	adult adult		164 142
																37 F 38 F 39 F	PortoPrimave PortoPrimave PortoPrimave	ra SwampForest ra SwampForest	PanteraOnca PanteraOnca	bPon38 bPon45	male female	adult adult		164 142 142
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																37 F 38 F 39 F 40 F 41 F 42 F 43 F	PortoPrimave PortoPrimave PortoPrimave PortoPrimave PortoPrimave PortoPrimave PortoPrimave PortoPrimave	ra SwampForest ra SwampForest ra SwampForest ra SwampForest	PanteraOnca PanteraOnca PanteraOnca PanteraOnca	bPon38 bPon45 bPon130 bPon131 bPon132 bPon58	male female female female	adult adult adult adult		164 142 142 152 146

Structure your data (columns/rows)

	В	U	D	E	F	G	Н	1	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y
	1																							1
1)																					
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3	Green Con	itior (low	vland r	ainfore	est)																			
		FCA742		CA723		FCA740		FCA441	-			-												
4	bPon01 male	160	160	236	240	308	312	165	169	CA391 219	235													
6	bPon02 male	160	170	230	236	308	312	169	169	215	235	-												
7	bPon133 fema	156	160	232	236	300	312	169	169	235	239													
8	bPon134 female	152	160	232	232	308	308	157	165	219	235													
9	bPon135 female	162	172	236	240	312	316	157	165	235	239													
10	bPon140 juven le	160	160	232	240	308	312	165	177	239	239													
11	bPon137 juven e bPon139 male	160 162	172 170	236 0	244 0	300 312	312 312	169 157	169 165	235 223	243 243													
13	bPon138 female	0	0	232	256	0	0	165	165	223	243													
14	bPon136 femal	162	170	236	236	304	312	165	165	235	239													
15																								
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17	Morro do																							
18		FCA742		CA723		FCA740		FCA441		CA391														
19	bPon25 male	158	188	236	240	>300	312	169	169	227	235													
20 21	bPon48 male bPon49 male	158 166	166 188	236 236	236 240	>300 >300	304 312	169 169	169 173	227 235	235 235	_												
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23	bPon51 male	158	158	236	236	>300	304	169	169	227	239													
24	bPon52 female	142	158	236	236	>300	304	169	169	235	235													
25	bPon53 juvenile	158	158	236	236	>300	304	169	169	215	239													
26	bPon54 juvenile	158	158	236	236	>300	304	169	169	215	227													
27 28																								
29	Ivinhema (Forest ed																						
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31	bPon35 male	154	164	236	240	304	308	157	165	215	231	-												
32	bPon46 female	142	158	240	240	304	304	169	173	231	235													
33	bPon40 female	166	166	236	240	304	308	157	169	223	235													
34	bPon41 female	158	166	236	240	304	304	169	173	231	239													
35	bPon47 juvenile	158	158	236	236	304	312	169	173	235	239													
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38	bPon359 male	158	164	230	230	304	308	169	169	215	233													
39	bPon44 male	160	166	236	240	0	0	173	173	231	231													
40	bPon80 male	146	150	240	240	304	308	173	173	231	235													
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40	bPon15 juvenile	146	160	230	230	304	304	165	169	235	235	-												
48	bPon16 male	158	164	236	236	304	308	165	165	215	235													
49	bPon17 male	154	164	236	244	308	312	165	169	215	223													
50	bPon18 male	154	158	240	244	308	312	169	169	223	239													
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Göttingen/

NO empty rows or columns

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4		FCA742	F	FCA723	F	CA740		FCA441	F	CA391														
4	bPon01 male	160	160	236	240	308	312	165	169	219	235													
6	bPon02 male	160	170	232	236	308	312	169	169	215	235													
7 8	bPon133 female bPon134 female	156 152	160 160	232 232	236 232	300 308	312 308	169 157	169 165	235 219	239 235													
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10	bPon140 juvenile	160	160	232	240	308	312	165	177	239	239													
11	bPon137 juvenile	160	172	236	244	300	312	169	169	235	243													
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18		FCA742		FCA723		CA740		FCA441	F	CA391														
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20	bPon48 male	158	166	236	236	>300	304	169	169	227	235													
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22	bPon51 male	158	158	236	236	>300	304	169 169	169	227	235	_												
24	bPon52 female	142	158	236	236	>300	304	169	169	235	235													
25	bPon53 juvenile	158	158	236	236	>300	304	169	169	215	239													
26	bPon54 juvenile	158	158	236	236	>300	304	169	169	215	227													
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31	bPon35 male	154	164	236	240	304	308	157	165	215	231													
32	bPon46 female	142	158	240	240	304	304	169	173	231	235													
33	bPon40 female	166	166	236	240	304	308	157	169	223	235													
34	bPon41 female	158	166	236	240	304	304	169	173	231	239													
35 36	bPon47 juvenile bPon78 juvenile	158 158	158 160	236 240	236 240	304 304	312 304	169 169	173 173	235 231	239 235													
30	bPon36 juvenile	156	158	240	240	304 304	304	169	173	231	235													
38	bPon359 male	158	164	240	240	304	308	169	169	215	231													
39	bPon44 male	160	166	236	240	0	0	173	173	231	231													
40	bPon80 male	146	150	240	240	304	308	173	173	231	235													
41 42																								
	Porto Prima	avera (a	wamp	forest)																				
43 44	Forto Frima	FCA742		FCA723		CA740		FCA441	5	CA391														
44	bPon03 female	160	166	220	236	300	304	157	169	223	235													
46	bPon11 male	158	166	236	236	300	312	157	169	235	235													
47	bPon15 juvenile	146	160	220	240	304	304	165	169	235	235													
48	bPon16 male	158	164	236	236	304	308	165	165	215	235													
49 50	bPon17 male bPon18 male	154 154	164 158	236 240	244 244	308 308	312 312	165 169	169 169	215 223	223 239													
						308	312	169	169	223	239													
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NO empty rows or columns

A	В				F	G	H	1	J	K L	М	N	0	Р	Q	R	S	Т	U	V	W	Х
	FCA742	F	CA723	F	CA740	F	CA441	F	CA391													
bPon01 male	160	160	236	240	308	312	165	169	219	235												
bPon02 male	160	170	232	236	308	312	169	169	215													
bPon133 female																						
bPon134 female																						
bPon135 female																						
bPon140 juvenile																						
bPon137 juvenile																						
bPon139 male			-	-																		
bPon138 female																						
bPon136 female					304	312	165	165	235	239												
bPon25 male																						
bPon48 male	Corrido (low)and Lainforest) TeXA10 FEXA10																					
bPon49 male																						
bPon50 male																						
bPon51 male bPon52 female																						
bPon52 iemale bPon53 juvenile												1										
bPon54 juvenile												•										
			230	230	>300	304	105	103	213	221												
				_		_		_														
										004												
bPon35 male bPon46 female																						
bPon40 female																						
bPon40 female																						
bPon47 juvenile																						
bPon78 juvenile																						
bPon36 juvenile																						
bPon359 male																						
bPon44 male																						
bPon80 male	146	150	240	240	304	308	173	173	231													
Porto Prima	vera (sw	amp f	forest)																			
				F	CA740	F	CA441	F	CA391													
bPon03 female										235												
bPon11 male																						
bPon15 juvenile																						
bPon16 male		164			304	308																
bPon17 male	154	164	236	244	308	312	165															
bPon18 male	154	158	240	244	308	312	169	169	223	239												
bPon19 male																						
bPon20 male																						
bPon38 male																						
bPon45 female																						
bPon130 female					FCA700 FCA441 FCA391 226 308 312 169 169 225 236 300 312 169 169 225 236 300 312 169 169 235 236 300 312 169 169 235 236 300 137 165 219 235 236 300 312 1165 176 235 234 302 115 155 0 0 256 0 0 156 155 0 0 256 0 0 156 155 0 0 256 0 0 156 227 235 240 302 156 156 227 235 240 300 312 169 177 235 236 230 304 169 169 227 235 236 230 304 169 169 227 235 236 300 304 169 169 22																	
bPon131 female	Chrickov Individual Calindroset) Vertex Proxiso Proxiso <th< td=""></th<>																					
bPon132 male	Christian Christian <t< td=""></t<>																					
bPon58 female	Corrido (low)and Lainforest) TeXAra FeXara																					
bPon24 juvenile	158	164	236	240	308	312	165	169	223	235												
	0/00				_																	
ant N/Ms/da	a/new Feb	2001	Tabelle1	/ 圮 /									I 4				1)

	D	6	D		- E	G	Ц			L	M	Ν	0	Р	Q	R	S	Т
Green Cor	en Corridor (lowland rainforest)																	
5	FCA742		CA723		CA740	F	CA441	E	CA391									
s bPon01 male	160	160	236	240	308	312	165	169	219	235								
4 bPon02 male	160	170	232	236	308	312	169	169	215	235								
5 bPon133 female	156	160	232	236	300	312	169	169	235	239								
6 bPon134 female	152	160	232	232	308	308	157	165	219	235								
7 bPon135 female	162	172	236	240	312	316	157	165	235	239								
8 bPon140 juvenile	160	160	232	240	308	312	165	177	239	239								
9 bPon137 juvenile	160	172	236	244	300	312	169	169	235	243								
10 bPon139 male	162	170	0	0	312	312	157	165	223	243								
11 bPon138 female	0	0	232	256	0	0	165	165	0	0								
2 bPon136 female	162	170	236	236	304	312	165	165	235	239								
3 Morro do I	Diabo (lov	vland	rainfor	rest)														
4	FCA742		CA723		CA740	F	CA441	F	CA391									
5 bDop25 molo	150	100	000	240	~200	240	100	160	007	025								
16 bPon48 male	158	166	236	236	>300	304	169	169	227	235								
17 bPon49 male	166	188	236	240	>300	312	169	173	235	235								
18 bPon50 male	158	166	236	236	>300	304	169	169	227	235								
19 bPon51 male	158	158	236	236	>300	304	169	169	227	239								
20 bPon52 female	142	158	236	236	>300	304	169	169	235	235								
21 bPon53 iuvenile	158	158	236	236	>300	304	169	169	215	239								
2 bPon54 juvenile	158	158	236	236	>300	304	169	169	215	227								
з <mark>Ivinhema (</mark>																		
4	FCA742	F	CA723	F	CA740	F	CA441	F	CA391	024								
LD und und und	151	- 101	200	210	- 204	000	467	465	245									
26 bPon46 female	142	158	240	240	304	304	169	173	231	235								
27 bPon40 female	166	166	236	240	304	308	157	169	223	235								
28 bPon41 female	158 158	166 158	236 236	240 236	304 304	304 312	169	173 173	231	239 239								
29 bPon47 juvenile 30 bPon78 juvenile	150	150	236	236	304 304	312	169 169	173	235 231	239								
31 bPon36 juvenile	142	158	240	240	304	304	169	173	231	235								
32 bPon359 male	158	164	240	230	304	308	169	169	235	233								
33 bPon44 male	160	166	236	240	0	0	173	173	231	231								
4 bPon80 male	146	150	240	240	304	308	1/3	173	231	235								
5 Porto Prim																		
6	FCA742		CA723		CA740	F	CA441	F	CA391									
7 bPop03 female	160	166	220	236	300	304	157	169	222	235								
38 bPon11 male	158	166	236	236	300	312	157	169	235	235								
39 bPon15 juvenile	146	160	220	240	304	304	165	169	235	235								
40 bPon16 male	158	164	236	236	304	308	165	165	215	235								
41 bPon17 male	154	164	236	244	308	312	165	169	215	223								
42 bPon18 male	154	158	240	244	308	312	169	169	223	239								
43 bPon19 male	146	158	236	240	304	312	169	169	235	239								
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	А	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	Р	Q	R	S
1	Area	Habitat type)	FCA742	F	-CA723	F	CA740	F	CA441	F	CA391							
2		lowland rainforest	bPon01 male	160	160	236	240	308	312	165	169	219	235						
3	Green Consider	lowland rainforest	bPon02 male	160	170	232	236	308	312	169	169	215	235						
4	Green Corridor	lowland rainforest	bPon133 female	156	160	232	236	300	312	169	169	235	239						
5	Green Corridor	lowland rainforest	bPon134 female	152	160	232	232	308	308	157	165	219	235						
6	Green Corridor	lowland rainforest	bPon135 female	162	172	236	240	312	316	157	165	235	239						
7	Green Corridor	lowland rainforest	bPon140 juvenile	160	160	232	240	308	312	165	177	239	239						
8	Green Corridor	lowland rainforest	bPon137 juvenile	160	172	236	244	300	312	169	169	235	243						
9	Green Corridor	lowland rainforest	bPon139 male	162	170	0	0	312	312	157	165	223	243						
10	Green Corridor	lowland rainforest	bPon138 female	0	0	232	256	0	0	165	165	0	0						
11	Green Corridor	lowland rainforest	bPon136 female	162	170	236	236	304	312	165	165	235	239						
12				FCA742	I	-CA723	F	CA740	F	CA441	F	CA391							
13	Morro do Diabo	lowland rainforest	bPon25 male	158	188	236	240	>300	312	169	169	227	235						
14	Morro do Diabo	lowland rainforest	bPon48 male	158	166	236	236	>300	304	169	169	227	235						
15	Morro do Diabo	lowland rainforest	bPon49 male	166	188	236	240	>300	312	169	173	235	235						
16	Morro do Diabo	lowland rainforest	bPon50 male	158	166	236	236	>300	304	169	169	227	235						
17	Morro do Diabo	lowland rainforest	bPon51 male	158	158	236	236	>300	304	169	169	227	239						
18	Morro do Diabo	lowland rainforest	bPon52 female	142	158	236	236	>300	304	169	169	235	235						
19	Morro do Diabo	lowland rainforest	bPon53 juvenile	158	158	236	236	>300	304	169	169	215	239						
		lowland rainforest	bPon54 juvenile	158	158	236	236	>300	304	169	169	215	227						7
21				FCA742		-CA723		CA740		CA441		CA391							
	lvinhema	forest edge	bPon35 male	154	164	236	240	304	308	157	165	215	231						
		forest edge	bPon46 female	142	158	240	240	304	304	169	173	231	235						
		forest edge	bPon40 female	166	166	236	240	304	308	157	169	223	235						
		forest edge	bPon41 female	158	166	236	240	304	304	169	173	231	239						
		forest edge	bPon47 juvenile	158	158	236	236	304	312	169	173	235	239						
		forest edge	bPon78 juvenile	158	160	240	240	304	304	169	173	231	235						
		forest edge	bPon36 juvenile	142	158	236	236	304	312	169	173	235	235						
		forest edge	bPon359 male	158	164	240	240	304	308	169	169	215	231						
		forest edge	bPon44 male	160	166	236	240	0	0	173	173	231	231						
		forest edge	bPon80 male	146	150	240	240	304	308	173	173	231	235						
32	Winnerna	lorest edge	bi onoo male	FCA742		-CA723		CA740		CA441		CA391	233						
	Porto Primavera	swamn forest	bPon03 female	160	166	220	236	300	304	157	169	223	235						
	Porto Primavera		bPon11 male	158	166	236	236	300	312	157	169	235	235						
	Porto Primavera		bPon15 juvenile	146	160	230	230	304	304	165	169	235	235						
	Porto Primavera		bPon16 male	158	164	236	236	304	308	165	165	215	235						
	Porto Primavera		bPon17 male	150	164	236	230	304	312	165	169	215	233						
	Porto Primavera		bPon18 male	154	158	230	244	308	312	169	169	213	223						——U
	Porto Primavera		bPon19 male	146	158	240	244	304	312	169	169	225	239						
	Porto Primavera		bPon20 male	140	166	236	240	304	308	165	173	235	239						
	Porto Primavera		bPon38 male	142	188	236	244 240	304	312	165	173	223	235						
	Porto Primavera		bPon36 male bPon45 female	142	154	230	240	308	312	165	165	225	235						
	Porto Primavera		bPon45 lemale bPon130 female	142	154	220	236	304	312	165	105	215	235						
			bPon130 female	152	166	236	240	300	312	157	1/5	215	235						
	Porto Primavera			146	100	240	240	304	312	165	169	235	239						Y
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	А	В	С	D	E	F	G	Н	1	J	K	L	М	N O	Р	Q	R	S
1	Area	Habitat type		FCA742	F	CA723	F	CA740	F	CA441	F	CA391		<u> </u>				
2 (Green Corridor	lowland rainforest	bPon01 male	160	160	236	240	308	312	165	169	219	235					
3 (Green Corridor	lowland rainforest	bPon02 male	160	170	232	236	308	312	169	169	215	235					
4 (Green Corridor	lowland rainforest	bPon133 female	156	160	232	236	300	312	169	169	235	239					
5 (Green Corridor	lowland rainforest	bPon134 female	152	160	232	232	308	308	157	165	219	235					
6 (Green Corridor	lowland rainforest	bPon135 female	162	172	236	240	312	316	157	165	235	239					
7 (Green Corridor	lowland rainforest	bPon140 juvenile	160	160	232	240	308	312	165	177	239	239					
8 (Green Corridor	lowland rainforest	bPon137 juvenile	160	172	236	244	300	312	169	169	235	243					
9 (Green Corridor	lowland rainforest	bPon139 male	162	170	0	0	312	312	157	165	223	243					
10	Green Corridor	lowland rainforest	bPon138 female	0	0	232	256	0	0	165	165	0	0					
11 (Green Corridor	lowland rainforest	bPon136 female	162	170	236	236	304	312	165	165	235	239					
12				FCA742	F	CA723	F	CA740	F	CA441	F	CA391		\leftarrow		•		
_	Norro do Diabo	lowland rainforest	bPon25 male	158	188	236	240	>300	312	169	169	227	235					
-		lowland rainforest	bPon48 male	158	166	236	236	>300	304	169	169	227	235					
_		lowland rainforest	bPon49 male	166	188	236	240	>300	312	169	173	235						
		lowland rainforest	bPon50 male	158	166	236	236	>300	304	169	169	227	23	Head	-			daus
_		lowland rainforest	bPon51 male	158	158	236	236	>300	304	169	169	227	23 23 23	Head	ers	rec	JUN	dan
_		lowland rainforest	bPon52 female	142	158	236	236	>300	304	169	169	235	23					
		lowland rainforest	bPon53 juvenile	158	158	236	236	>300	304	169	169	215	23 239					1
		lowland rainforest	bPon54 juvenile	158	158	236	236	>300	304	169	169	215	227					
21		Iowana rannorest	bi ono+ javenne	FCA742		CA723		CA740		CA441		CA391	LLI					
_	vinhema	forest edge	bPon35 male	154	164	236	240	304	308	157	165	215	231					
		forest edge	bPon46 female	142	158	240	240	304	304	169	173	231	235					
_		forest edge	bPon40 female	166	166	236	240	304	308	157	169	223	235					
_		forest edge	bPon41 female	158	166	236	240	304	304	169	173	231	239					
_		forest edge	bPon47 juvenile	158	158	236	236	304	312	169	173	235	239					
		forest edge	bPon78 juvenile	158	160	240	240	304	304	169	173	233	235					
_		forest edge	bPon36 juvenile	142	158	236	236	304	312	169	173	235	235					
_		forest edge	bPon359 male	158	164	230	230	304	308	169	169	215	233					
		forest edge	bPon44 male	160	166	236	240	0	0	173	103	231	231					
_		forest edge	bPon80 male	146	150	230	240	304	308	173	173	231	231					
32	vinnenna	lorest euge	bronov male	FCA742		CA723		CA740		CA441		CA391	200					
	Porto Primavera	swamp forest	bPon03 female	160	166	220	236	300	304	157	169	223	235	\leftarrow		·		
	Porto Primavera Porto Primavera		bPonU3 female bPon11 male	150	166	220	236	300	304 312	157	169	223	235					
			bPon15 juvenile	150	160	236	236	300	312	165	169	235	235					
	Porto Primavera					220	240		304 308	165		235	235					
	Porto Primavera		bPon16 male	158	164			304			165							
	Porto Primavera		bPon17 male	154	164	236	244	308	312	165	169	215	223					
	Porto Primavera		bPon18 male	154	158	240	244	308	312	169	169	223	239					
	Porto Primavera		bPon19 male	146	158	236	240	304	312	169	169	235	239					
	Porto Primavera		bPon20 male	164	166	236	244	304	308	165	173	223	239					
	Porto Primavera		bPon38 male	142	188	236	240	308	312	169	173	223	235					
			bPon45 female	142	154	220	236	304	312	165	165	215	235					
42	Porto Primavera												225					
42 43	Porto Primavera	swamp forest	bPon130 female	152	170	236	240	300	312	157	173	215	235					
42 43 44	Porto Primavera Porto Primavera	swamp forest		152 146	170 166	236 240	240 240	300 304	312 312	157 165	173	215	235					-

	А	В	С	D	E	F	G	Н		J	K	L	М	Ν	0	Р	Q	R	S
1	Area	Habitat type		FCA742		FCA723		FCA740		FCA441		FCA391							
2	Green Corridor	lowland rainforest	bPon01 male	160	160	236	240	308	312	165	169	219	235						
3	Green Corridor	lowland rainforest	bPon02 male	160	170	232	236	308	312	169	169	215	235						
4	Green Corridor	lowland rainforest	bPon133 female	156	160	232	236	300	312	169	169	235	239						
5	Green Corridor	lowland rainforest	bPon134 female	152	160	232	232	308	308	157	165	219	235						
6	Green Corridor	lowland rainforest	bPon135 female	162	172	236	240	312	316	157	165	235	239						
7	Green Corridor	lowland rainforest	bPon140 juvenile	160	160	232	240	308	312	165	177	239	239						
8	Green Corridor	lowland rainforest	bPon137 juvenile	160	172	236	244	300	312	169	169	235	243						
9	Green Corridor	lowland rainforest	bPon139 male	162	170	0	0	312	312	157	165	223	243						
	Green Corridor	lowland rainforest	bPon138 female	0	0	232	256	0	0	165	165	0	0						
11	Green Corridor	lowland rainforest	bPon136 female	162	170	236	236	304	312	165	165	235	239						
12	Morro do Diabo	lowland rainforest	bPon25 male	158	188	236	240	>300	312	169	169	227	235						
13	Morro do Diabo	lowland rainforest	bPon48 male	158	166	236	236	>300	304	169	169	227	235						
14	Morro do Diabo	lowland rainforest	bPon49 male	166	188	236	240	>300	312	169	173	235	235						
15	Morro do Diabo	lowland rainforest	bPon50 male	158	166	236	236	>300	304	169	169	227	235						
16	Morro do Diabo	lowland rainforest	bPon51 male	158	158	236	236	>300	304	169	169	227	239						
17	Morro do Diabo	lowland rainforest	bPon52 female	142	158	236	236	>300	304	169	169	235	235						
18	Morro do Diabo	lowland rainforest	bPon53 juvenile	158	158	236	236	>300	304	169	169	215	239						
19	Morro do Diabo	lowland rainforest	bPon54 juvenile	158	158	236	236	>300	304	169	169	215	227						=
20	lvinhema	forest edge	bPon35 male	154	164	236	240	304	308	157	165	215	231						
21	lvinhema	forest edge	bPon46 female	142	158	240	240	304	304	169	173	231	235						
22	lvinhema	forest edge	bPon40 female	166	166	236	240	304	308	157	169	223	235						
23	lvinhema	forest edge	bPon41 female	158	166	236	240	304	304	169	173	231	239						
24	lvinhema	forest edge	bPon47 juvenile	158	158	236	236	304	312	169	173	235	239						
25	lvinhema	forest edge	bPon78 juvenile	158	160	240	240	304	304	169	173	231	235						
26	lvinhema	forest edge	bPon36 juvenile	142	158	236	236	304	312	169	173	235	235						
27	lvinhema	forest edge	bPon359 male	158	164	240	240	304	308	169	169	215	231						
28	lvinhema	forest edge	bPon44 male	160	166	236	240	0	0	173	173	231	231						
29	lvinhema	forest edge	bPon80 male	146	150	240	240	304	308	173	173	231	235						
30	Porto Primavera	swamp forest	bPon03 female	160	166	220	236	300	304	157	169	223	235						
31	Porto Primavera	swamp forest	bPon11 male	158	166	236	236	300	312	157	169	235	235						
32	Porto Primavera	swamp forest	bPon15 juvenile	146	160	220	240	304	304	165	169	235	235						
33	Porto Primavera	swamp forest	bPon16 male	158	164	236	236	304	308	165	165	215	235						
34	Porto Primavera	swamp forest	bPon17 male	154	164	236	244	308	312	165	169	215	223						
35	Porto Primavera	swamp forest	bPon18 male	154	158	240	244	308	312	169	169	223	239						
36	Porto Primavera	swamp forest	bPon19 male	146	158	236	240	304	312	169	169	235	239						
37	Porto Primavera	swamp forest	bPon20 male	164	166	236	244	304	308	165	173	223	239						
	Porto Primavera		bPon38 male	142	188	236	240	308	312	169	173	223	235						
	Porto Primavera		bPon45 female	142	154	220	236	304	312	165	165	215	235						
40	Porto Primavera	swamp forest	bPon130 female	152	170	236	240	300	312	157	173	215	235						
	Porto Primavera		bPon131 female	146	166	240	240	304	312	165	169	235	239						
	Porto Primavera		bPon132 male	142	158	236	236	304	312	165	169	239	239						
	Porto Primavera		bPon58 female	142	166	220	240	304	312	165	169	215	239						
	Porto Primavera		bPon24 juvenile	158	164	236	240	308	312	165	169	223	235						
	of 20M3 (ab		belle1 🖄							ī	4								
00		INCONTENZOUT / 14								1			1111						

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NO compound variables

	А	В	C	U	E	F	G	Н		J	K	L	М	Ν	0	Р	Q	R	S
1 Ar	rea	Habitat typ	•	FCA7	42	FCA723		FCA740		FCA441		FCA391							
2 Gre	een Corridor	lowland rainforest	bPon01 male		60 160	236	240	308	312	165	169	219	235						
3 Gre	een Corridor	lowland rainforest	bPon02 male	(60 170	232	236	308	312	169	169	215	235						
4 Gre	een Corridor	lowland rainforest	bPon133 female	!	56 160	232	2.5	300	312	169	169	235	239						
5 Gre	een Corridor	lowland rainforest	bPon134 female		52 160		232		308	157	165		235						
6 Gre	een Corridor	lowland rainforest	bPon135 female		62 172		240		316	157	165		239						
7 Gre	een Corridor	lowland rainforest	bPon140 juvenile		60 160		240		312	165	177		239						
8 Gre	een Corridor	lowland rainforest	bPon137 juvenile		60 172		244	300	312	160	169		243						
		lowland rainforest	bPon139 male		62 170		0		312	157	165		243						
	een Corridor	lowland rainforest	bPon138 female		0 0		256		0	165	165		0						
	een Corridor	lowland rainforest	bPon136 female		62 170		236		312	165	165		239						
		lowland rainforest	bPon25 male		58 188		240		312	169	169		235						
		lowland rainforest	bPon48 male		58 166		236		304	169	169		235						
		lowland rainforest	bPon49 male		66 188		240		312	169	173		235						
		lowland rainforest	bPon50 male		58 166		236		304	169	169		235		indivi	idua	ID		
		lowland rainforest	bPon51 male		58 158		236		304	169	169		239						
		lowland rainforest	bPon52 female		42 158		236		304	169	169		235		COV				
		lowland rainforest	bPon53 juvenile		58 158	236	236		304	169	169		239		sex				
		lowland rainforest	bPon54 juvenile		58 158		236		304	169	169		227						
	ihema	forest edge	bPon35 male		54 164	236	240		308	157	165		231		age				
21 Ivin		forest edge	bPon46 female		42 158		240		304	169	173		235		480				
		forest edge	bPon40 female		66 166		240		308	157	169		235						
23 Ivin		forest edge	bPon41 female		58 166		240		304	169	173		230		speci	esrr	'		
		forest edge	bPon47 juvenile		58 158		236		312	169	173		239						
25 Ivin		forest edge	bPon78 juvenile		58 160		240		304	169	173		235						
		forest edge	bPon36 juvenile		42 158		236		312	169	173		235						
		forest edge	bPon359 male		58 164	240	240		308	169	169		231						
	ihema	forest edge	bPon44 male		60 166		240		0	173	175	231	231						
	ihema	forest edge	bPon80 male		46 150		240		308	173	173		235						
		swamp forest	bPon03 female		60 166		236		304	157	169		235						
		swamp forest	bPon11 male		58 166		236		312	51	169		235						
		swamp forest	bPon15 juvenile		46 160		240		304	165	169		235						
		swamp forest	bPon16 male		58 164	236	236		300	165	165		235						
		swamp forest	bPon17 male		54 164	236	244	308	312	165	169		223						
		swamp forest	bPon18 male		54 158		244	308	312	169	169		239						
		swamp forest	bPon19 male		46 158		240	304	312	169	169		239						
		swamp forest	bPon20 male		64 166		244	304	308	165	173		239						
		swamp forest	bPon38 male		42 188		0	308	312	169	173		235						
		swamp forest	bPon45 female		42 154		236		312	165	165		235						
		swamp forest	bPon130 female		52 170		240		312	157	173		235						
		swamp forest	bPon131 female		46 166		240		312	165	169		239						
		swamp forest	bPon132 male		42 158		236		312	165	169		239						
		swamp forest	bPon58 female		42 106	220	240		312	165	169		239						
		swamp forest	bPon24 juvenile	1	58 164	236	240	308	312	165	169	223	235						
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NO compound variables

														-	_	-	
A		species	ID	sex	age				J	K	L	M	Ν	0	Р	Q	R
1 Area	Habit							FCA723		FCA740		FCA441		FCA391			
2 Green Corri	dor lowland rainfore	st Pantera onca	bPon01	male	adult	160	160	236	240	308	312	165	169	219	235		
3 Green Corri	dor lowland rainfore	st Pantera onca	bPon02	male	adult	160	170	232	236	308	312	169	169	215	235		
4 Green Corri	dor lowland rainfore	st Pantera onca	bPon133	female	adult	156	160	232	236	300	312	169	169		239		
5 Green Corr	dor lowland rainfore	st Pantera onca	bPon134	female	adult	152	160	232	232	308	308	157	165		235		
6 Green Corr	dor lowland rainfore		bPon135	female	adult	162	172	236	240	312	316		165		239		
7 Green Corr	dor lowland rainfore	st Pantera onca	bPon140	NA	juvenile	160	160	232	240	308	312		177		239		
8 Green Corri			bPon137	NA	juvenile	160	172	236	244	300	312		169		243		
9 Green Corri			bPon139	male	adult	162	170	0	0		312		165		243		
10 Green Corri			bPon138	female	adult	0	0	232	256	-	0		165	-	0		
11 Green Corri			bPon136	female	adult	162	170	236	236	304	312		165		239		
12 Morro do D			bPon25	male	adult	158	188	236	240	>300	312		169		235		
	iabo lowland rainfore		bPon48	male	adult	158	166	236	236	>300	304	169	169		235		
	iabo lowland rainfore		bPon49	male	adult	166	188	236	240	>300	312		173		235		
15 Morro do D			bPon50	male	adult	158	166	236	236	>300	304	169	169		235		
16 Morro do D		st Pantera onca	bPon51	male	adult	158	158	236	236	>300	304	169	169		239		
17 Morro do D			bPon52	female	adult	142	158	236	236	>300	304	169	169		235		
18 Morro do D			bPon53	NA	juvenile	158	158	236	236	>300	304	169	169		239		
19 Morro do D	iabo lowland rainfore	st Pantera onca	bPon54	NA	juvenile	158	158	236	236	>300	304	169	169		227		
20 Ivinhema	forest edge	Pantera onca	bPon35	male	adult	154	164	236	240		308	157	165		231		
21 Ivinhema	forest edge	Pantera onca	bPon46	female	adult	142	158	240	240		304	169	173		235		
22 Ivinhema	forest edge	Pantera onca	bPon40	female	adult	166	166	236	240		308	157	169		235		
23 Ivinhema	forest edge	Pantera onca	bPon41	female	adult	158	166	236	240	304	304	169	173		239		
24 Ivinhema	forest edge	Pantera onca	bPon47	NA	juvenile	158	158	236	236	304	312		173		239		
25 Ivinhema	forest edge	Pantera onca	bPon78	NA	juvenile	158	160	240	240	304	304	169	173		235		
26 Ivinhema	forest edge	Pantera onca	bPon36	NA	juvenile	142	158	236	236		312		173		235		
27 Ivinhema	forest edge	Pantera onca	bPon359	male	adult	158	164	240	240	304	308	169	169		231		
28 Ivinhema	forest edge	Pantera onca	bPon44	male	adult	160	166	236	240	0	0	173	173		231		
29 Ivinhema	forest edge	Pantera onca	bPon80	male	adult	146	150	240	240	304	308	173	173		235		
	avera swamp forest	Pantera onca	bPon03	female	adult	160	166	220	236	300	304	157	169		235		
	avera swamp forest	Pantera onca	bPon11	male	adult	158	166	236	236	300	312		169		235		
32 Porto Prima	avera swamp forest	Pantera onca	bPon15	NA	juvenile	146	160	220	240	304	304	165	169		235		
	avera swamp forest	Pantera onca	bPon16	male	adult	158	164	236	236	304	308	165	165		235		
34 Porto Prima	avera swamp forest	Pantera onca	bPon17	male	adult	154	164	236	244	308	312		169		223		
	avera swamp forest	Pantera onca	bPon18	male	adult	154	158	240	244	308	312		169		239		
	avera swamp forest	Pantera onca	bPon19	male	adult	146	158	236	240	304	312		169		239		
37 Porto Prima	avera swamp forest	Pantera onca	bPon20	male	adult	164	166	236	244	304	308	165	173		239		
38 Porto Prima	avera swamp forest	Pantera onca	bPon38	male	adult	142	188	236	240	308	312		173		235		
	avera swamp forest	Pantera onca	bPon45	female	adult	142	154	220	236	304	312		165		235		
	avera swamp forest	Pantera onca	bPon130	female	adult	152	170	236	240	300	312		173		235		
	avera swamp forest	Pantera onca	bPon131	female	adult	146	166	240	240	304	312		169		239		
	avera swamp forest	Pantera onca	bPon132	male	adult	142	158	236	236	304	312		169		239		
	avera swamp forest	Pantera onca	bPon58	female	adult	142	166	220	240	304	312		169		239		
	avera swamp forest	Pantera onca	bPon24	NA	juvenile	158	164	236	240	308	312	165	169	223	235		
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Headers & units for each variable

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	А	В	С	D	E	F	G	ל'		לי	K 📉	לי'	M	くこと	0		R
1	Area	Habitat type	species	INDIV-ID	SEX	AGE	FCA742		FCA723	$\mathbf{\vee}$	FCA740	$\mathbf{\nabla}$	FCA441	$\mathbf{\nabla}$	FCA391	\checkmark	
2	Green Corridor	lowland rainforest	Pantera onca	bPon01	male	adult	160	160	236	240	308	312	165	169	219	235	
3	Green Corridor	lowland rainforest	Pantera onca	bPon02	male	adult	160	170	232	236	308	312	169	169	215	235	
4	Green Corridor	lowland rainforest	Pantera onca	bPon133	female	adult	156	160	232	236	300	312	169	169	235	239	
5	Green Corridor	lowland rainforest	Pantera onca	bPon134	female	adult	152	160	232	232	308	308	157	165	219	235	
6	Green Corridor	lowland rainforest	Pantera onca	bPon135	female	adult	162	172	236	240	312	316	157	165	235	239	
7	Green Corridor	lowland rainforest	Pantera onca	bPon140	NA	juvenile	160	160	232	240	308	312	165	177	239	239	
8	Green Corridor	lowland rainforest	Pantera onca	bPon137	NA	juvenile	160	172	236	244	300	312	169	169	235	243	
9	Green Corridor	lowland rainforest	Pantera onca	bPon139	male	adult	162	170	0	0	312	312	157	165	223	243	
10	Green Corridor	lowland rainforest	Pantera onca	bPon138	female	adult	0	0	232	256	0	0	165	165	0	0	
11	Green Corridor	lowland rainforest	Pantera onca	bPon136	female	adult	162	170	236	236	304	312	165	165	235	239	
12	Morro do Diabo	lowland rainforest	Pantera onca	bPon25	male	adult	158	188	236	240	>300	312	169	169	227	235	
13	Morro do Diabo	lowland rainforest	Pantera onca	bPon48	male	adult	158	166	236	236	>300	304	169	169	227	235	
14	Morro do Diabo	lowland rainforest	Pantera onca	bPon49	male	adult	166	188	236	240	>300	312	169	173	235	235	
15	Morro do Diabo	lowland rainforest	Pantera onca	bPon50	male	adult	158	166	236	236	>300	304	169	169	227	235	
16	Morro do Diabo	lowland rainforest	Pantera onca	bPon51	male	adult	158	158	236	236	>300	304	169	169	227	239	
17	Morro do Diabo	lowland rainforest	Pantera onca	bPon52	female	adult	142	158	236	236	>300	304	169	169	235	235	
18	Morro do Diabo	lowland rainforest	Pantera onca	bPon53	NA	juvenile	158	158	236	236	>300	304	169	169	215	239	
19	Morro do Diabo	lowland rainforest	Pantera onca	bPon54	NA	juvenile	158	158	236	236	>300	304	169	169	215	227	
20	lvinhema	forest edge	Pantera onca	bPon35	male	adult	154	164	236	240	304	308	157	165	215	231	
21	lvinhema	forest edge	Pantera onca	bPon46	female	adult	142	158	240	240	304	304	169	173	231	235	
22	lvinhema	forest edge	Pantera onca	bPon40	female	adult	166	166	236	240	304	308	157	169	223	235	
23	lvinhema	forest edge	Pantera onca	bPon41	female	adult	158	166	236	240	304	304	169	173	231	239	
24	lvinhema	forest edge	Pantera onca	bPon47	NA	juvenile	158	158	236	236	304	312	169	173	235	239	
25	lvinhema	forest edge	Pantera onca	bPon78	NA	juvenile	158	160	240	240	304	304	169	173	231	235	
26	lvinhema	forest edge	Pantera onca	bPon36	NA	juvenile	142	158	236	236	304	312	169	173	235	235	
27	lvinhema	forest edge	Pantera onca	bPon359	male	adult	158	164	240	240	304	308	169	169	215	231	
28	lvinhema	forest edge	Pantera onca	bPon44	male	adult	160	166	236	240	0	0	173	173	231	231	
29	lvinhema	forest edge	Pantera onca	bPon80	male	adult	146	150	240	240	304	308	173	173	231	235	
30	Porto Primavera	swamp forest	Pantera onca	bPon03	female	adult	160	166	220	236	300	304	157	169	223	235	
31	Porto Primavera	swamp forest	Pantera onca	bPon11	male	adult	158	166	236	236	300	312	157	169	235	235	
32	Porto Primavera	swamp forest	Pantera onca	bPon15	NA	juvenile	146	160	220	240	304	304	165	169	235	235	
33	Porto Primavera	swamp forest	Pantera onca	bPon16	male	adult	158	164	236	236	304	308	165	165	215	235	
34	Porto Primavera	swamp forest	Pantera onca	bPon17	male	adult	154	164	236	244	308	312	165	169	215	223	
_	Porto Primavera		Pantera onca	bPon18	male	adult	154	158	240	244	308	312	169	169	223	239	
36	Porto Primavera	swamp forest	Pantera onca	bPon19	male	adult	146	158	236	240	304	312	169	169	235	239	
_	Porto Primavera		Pantera onca	bPon20	male	adult	164	166	236	244	304	308	165	173	223	239	
	Porto Primavera		Pantera onca	bPon38	male	adult	142	188	236	240	308	312	169	173	223	235	
	Porto Primavera		Pantera onca	bPon45	female	adult	142	154	220	236	304	312	165	165	215	235	
	Porto Primavera		Pantera onca	bPon130	female	adult	152	170	236	240	300	312	157	173	215	235	
_	Porto Primavera		Pantera onca	bPon131	female	adult	146	166	240	240	304	312	165	169	235	239	
	Porto Primavera		Pantera onca	bPon132	male	adult	142	158	236	236	304	312	165	169	239	239	
	Porto Primavera		Pantera onca	bPon58	female	adult	142	166	220	240	304	312	165	169	215	239	
_	Porto Primavera		Pantera onca	bPon24	NA	juvenile	158	164	236	240	308	312	165	169	223	235	
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Headers & units for each variable

	А	В	С	D	E	F	G	H		J	K	L	Μ	N	(r Q	ĸ
1	Area	Habitat type	species	INDIV-ID	SEX	AGE	LocFCA L	ocFCA L	ocFCA L	ocFCA I	.ocFCA L	ocFCA L	.ocFCA l	ocFCA L	oc [‡] CA Lo	cFCA391	L_all2 [bp]
2	Green Corridor	lowland rainforest	Pantera onca	bPon01	male	adult	160	160	236	240	308	312	165	169	210	205	
3	Green Corridor	lowland rainforest	Pantera onca	bPon02	male	adult	160	170	232	236	308	312	169	169	215	235	
4	Green Corridor	lowland rainforest	Pantera onca	bPon133	female	adult	156	160	232	236	300	312	169	169	235	259	
5	Green Corridor	lowland rainforest	Pantera onca	bPon134	female	adult	152	160	232	232	308	308	157	165	219	235	
6		lowland rainforest	Pantera onca	bPon135	female	adult	162	172	236	240	312	316	157	165	235	239	
7		lowland rainforest	Pantera onca	bPon140	NA	juvenile	160	160	232	240	308	312	165	177	27 5	239	
		lowland rainforest	Pantera onca	bPon137	NA	juvenile	160	172	236	244	300	312	169	169	235	243	
9		lowland rainforest	Pantera onca	bPon139	male	adult	162	170	0	0	312	312	157	165	223	243	
		lowland rainforest	Pantera onca	bPon138	female	adult	0	0	232	256	0	0	165	100	0	0	
11		lowland rainforest	Pantera onca	bPon136	female	adult	162	170	236	236	304	312	165	165	235	239	
		lowland rainforest	Pantera onca	bPon25	male	adult	158	188	236	240	>300	312	169	169	227	235	
		lowland rainforest	Pantera onca	bPon48	male	adult	158	166	236	236	>300	304	165	169	227	235	
		lowland rainforest	Pantera onca	bPon49	male	adult	166	188	236	240	>300	312	169	173	235	235	
		lowland rainforest lowland rainforest	Pantera onca Pantera onca	bPon50 bPon51	male male	adult adult											
		lowland rainforest	Pantera onca	bPon51 bPon52	female	adult											
		lowland rainforest	Pantera onca	bPon52 bPon53	NA	juvenile											
		lowland rainforest	Pantera onca	bPon55 bPon54	NA	juvenile		Г		20	1 -	112	۲L.	_1			
		forest edge	Pantera onca	bPon35	male	adult		DCF	'LA	59	1 a	IIZ					
		forest edge	Pantera onca	bPon46	female	adult							L I				
		forest edge	Pantera onca	bPon40	female	adult				_							
		forest edge	Pantera onca	bPon41	female	adult) (SH	CAE	KY 1					
		forest edge	Pantera onca	bPon47	NA	juvenile							•				
		forest edge	Pantera onca	bPon78	NA	juvenile				_							
		forest edge	Pantera onca	bPon36	NA	juvenile		A		Δ7							
27		forest edge	Pantera onca	bPon359	male	adult											
28		forest edge	Pantera onca	bPon44	male	adult											
29	lvinhema	forest edge	Pantera onca	bPon80	male	adult			bba	+h	in k		000	airs			
30	Porto Primavera	swamp forest	Pantera onca	bPon03	female	adult		7 LE	; IIZ	UI I		Jas	epa				
31	Porto Primavera	swamp forest	Pantera onca	bPon11	male	adult			Ŭ	, 			•				
32	Porto Primavera	swamp forest	Pantera onca	bPon15	NA	juvenile											
33	Porto Primavera	swamp forest	Pantera onca	bPon16	male	adult											
34	Porto Primavera	swamp forest	Pantera onca	bPon17	male	adult	154	164	236	244	308	312	165	169	215	223	
	Porto Primavera		Pantera onca	bPon18	male	adult	154	158	240	244	308	312	169	169	223	239	
	Porto Primavera		Pantera onca	bPon19	male	adult	146	158	236	240	304	312	169	169	235	239	
	Porto Primavera		Pantera onca	bPon20	male	adult	164	166	236	244	304	308	165	173	223	239	
	Porto Primavera		Pantera onca	bPon38	male	adult	142	188	236	240	308	312	169	173	223	235	
	Porto Primavera		Pantera onca	bPon45	female	adult	142	154	220	236	304	312	165	165	215	235	
	Porto Primavera		Pantera onca	bPon130	female	adult	152	170	236	240	300	312	157	173	215	235	
	Porto Primavera		Pantera onca	bPon131	female	adult	146	166	240	240	304	312	165	169	235	239	
	Porto Primavera		Pantera onca	bPon132	male	adult	142	158	236	236	304	312	165	169	239	239	
	Porto Primavera		Pantera onca	bPon58	female	adult	142	166	220	240	304	312	165	169	215	239	
	Porto Primavera		Pantera onca	bPon24	NA	juvenile	158	164	236	240	308	312	165	169	223	235	
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Consistent data entries

	A	В	С	D	E	F	G	Н		J	K	L	Μ	N	0	P Q	R	-
1	Area	Habitat type	species	INDIV-ID	SEX	AGE	LocFCA	LocFCA L	ocFCA	LocFCA	LocFCA	LocFCA	LocFCA	LocFCA	LocFCA	LocFCA39	1_all2 [bp]	
2	Green Corridor	lowland rainforest	Pantera onca	bPon01	male	adult	160	160	236	240	308	312	165	169	219	235		
3 (Green Corridor	lowland rainforest	Pantera onca	bPon02	male	adult	160	170	232	236	308	312	169	169	215	235		
4 (Green Corridor	lowland rainforest	Pantera onca	bPon133	female	adult	156	160	232	236	300	312	169	169	235	239		
5 (Green Corridor	lowland rainforest	Pantera onca	bPon134	female	adult	152	160	232	232	308	308	157	165	219	235		
-		lowland rainforest	Pantera onca	bPon135	female	adult	162	172	236	240	312	316	157	165	235	239		
-		lowland rainforest	Pantera onca	bPon140	NA	juvenile	160	160	232	240	308	312	165	177	239	239		
-		lowland rainforest	Pantera onca	bPon137	NA	juvenile	160	172	236	244	300	312	169	169	235	243		
_		lowland rainforest	Pantera onca	bPon139	mate	adult	SE	170	0	0	2/2	312	157	165	222	245		
_		lowland rainforest	Pantera onca	bPon138	female	adult	0	0	200	200	0	0	165	165	0	0		
		lowland rainforest	Pantera onca	bPon136	female	adult	60	170	236	236	30	212	165	165	2.5	239		
		lowland rainforest	Pantera onca	bPon25	male	adult	158	188	236	240	>300	312	169	169	227	235		-11-
		lowland rainforest	Pantera onca	bPon48	male	adult	158	166	236	236	>300	304	169	169	227	235		
		lowland rainforest	Pantera onca	bPon49	male	adult	166	188	236	240	>300	312	169	173	235	235		-
		lowland rainforest	Pantera onca	bPon50	male	adult	158	166	236	236	>300	304	169	169	227	235		_
		lowland rainforest	Pantera onca	bPon51	male	adult	158	158	236	236	>300	304	169	169	227	239		-
		lowland rainforest	Pantera onca	bPon52	temale	adult	142	158	236	236	>300	304	169	169	235	235		
		lowland rainforest	Pantera onca	bPon53	NA	juvenile	158	158	236	236	>300	304	169	169	215	239		
-		lowland rainforest	Pantera onca	bPon54	NA	juvenile	158	158	236	236	>300	304	169	169	215	227		-11-
		forest edge	Pantera onca	bPon35	male	adult	154	164	236	240	304	308	157	165	215	231		-11
_		forest edge	Pantera onca	bPon46	female	adult	142	158	240	240	304	304	169	173	231	235		
_		forest edge	Pantera onca	bPon40	female	adult	166	166	236	240	304	308	157	169	223	235		-11
		forest edge	Pantera onca	bPon41	female	adult	158	166	236	240	304	304	169	173	231	239		-11
_		forest edge	Pantera onca	bPon47	NA	juvenile	158	158	236	236	304	312	169	173	235	239		
_		forest edge	Pantera onca	bPon78	NA	juvenile	158	160	240	240	304	304	169	173	231	235		- 11
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	Porto Primavera		Pantera onca	bPon18	male	adult		_		^			1					
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_	Porto Primavera		Pantera onca	bPon20	male	adult				•, •								
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24 kinhema ForestEdge ParteraOnca bPon47 NA
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20 PotoPirmavera SwampForest ParteraOnca bPon80 male
20 PotoPirmavera SwampForest ParteraOnca bPon16 NA
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33 PotoPirmavera SwampForest ParteraOnca bPon16 male
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| 30 PortoPrimæres SwampForest ParteraOnca bPon13 female
31 PortoPrimæres SwampForest ParteraOnca bPon15 NA
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33 PortoPrimæres SwampForest ParteraOnca bPon16 male
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| 32 PortoPrimaera SwampForest Partera/Onca bPon15 NA
33 PortoPrimaera SwampForest Partera/Onca bPon16 male
34 PortoPrimaera SwampForest Partera/Onca bPon17 male
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| 35 PortoPrimaera SwampForest Partera/Onca bPon18 male
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37 PortoPrimaera SwampForest Partera/Onca bPon39 male
38 PortoPrimaera SwampForest Partera/Onca bPon38 male
39 PortoPrimaera SwampForest Partera/Onca bPon35 female
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46 PortoPrimaera SwampForest Partera/Onca bPon58 female
44 PortoPrimaera SwampForest Partera/Onca bPon24 NA
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40 PortoPrimaera SwampForest Partera/Onca bPon130 female
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42 PortoPrimaera SwampForest Partera/Onca bPon132 male
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| 38 PortoPrimavera SwampForest ParteraOnca bPon38 male
39 PortoPrimavera SwampForest ParteraOnca bPon45 female a
40 PortoPrimavera SwampForest ParteraOnca bPon130 female a
41 PortoPrimavera SwampForest ParteraOnca bPon131 female a
42 PortoPrimavera SwampForest ParteraOnca bPon132 male
43 PortoPrimavera SwampForest ParteraOnca bPon58 female
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4.4 PortoPrimavera SwampForest ParteraOnca bPon24 NA
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Summary

/eResearch Alliance

Göttingen

- 1. Structure your data (columns/rows)
- 2. NO empty rows or columns
- 3. NO compound variables (1 column/row per variable)
- 4. Units for EACH variable
- 5. CONSISTENT data entries
 - a. Define missing data (e.g. NA)
 - b. Use integers/real numbers (>80cm; ca.40; near XY)
 - c. NO whitespaces / ß / umlauts
 - d. Avoid colour coding for metadata
 - e. Use either, or. for decimal values, but be consistent!

Organization & Documentation: Best practice

• Plan before you start

- Organize your folders & files
- Define, Discuss and Document naming conventions

Explain your data

- Use standards if possible, do not re-invent
- If standards are too complex or not complex enough then try to customize on the basis of them.
- **Discuss your approach** with your colleagues

Be specific and consistent

- Don't alter the past, but document changes in your RDM practice
- Somebody else should be able to find and understand your research data without you ideally even years later

Some services on Campus

Name	Provide d by	Purpose / Comments
Sharepoint	GWDG	Collaboration, Sharing of documents, lists, calendars,
Etherpad	GWDG	Collaborative notepad editing
Electronic lab notebook	UMG	(Re-)Organizable, searchable and Backupable research documentation
Biophysical Software	GWDG	analysis and sequencing software like MASCOT (proteome research), Delta2D (2D- Analysis of gel electrophoresis), GeneiousPro (sequential analysis) or for Next Generation Sequencing
Open Access Publication Fund	SUB	complete coverage for up to €2.000,- for publication in OA journal
Videoconferencing	GWDG via DFN	including option to join via phone call

GWDG services

SERVICES

Storage Services

File Service Data Archiving Backup GWDG Cloud Share Cryptshare GWDG ownCloud GWDG Crash Plan PROe

E-Mail and Collaboration Services

E-Mail-Service (MS Exchange 2010) Spam and Virus Filtering Mailing Lists MS Sharepoint Managed Services Project Management Service Etherpad

Server Services

Virtual Server Hosting/Housing of Servers Web Hosting GWDG Cloud Server FTP-Server

Network Servies

Göttingen/

System Monitoring IP Address Management System Cable und Route Management System Setting up eduroam Integration into the Active Dirctory User Management with OpenLDAP Client Management

/eResearch Alliance

Application Services

Persistent Identifier (PID) High Performance Computing Library Service Aleph Database Service Oracle Application and Registration Services Bioinformatics Programs Statistics Programs Online Surveys Plagiarism Detection Database Service MySQL

IT Security Services

Vulnerability Scans on Network-attached Equipment Public-Key- Infrastruktur (PKI) Authentication and Authorization Infrastructure (AAI) Virus Protection (Sophos Update Service)

General Services

Software and Licence Management Courses Videoconferencing Computer Lending Pool Identity Management Print & Scan Services

IT Consulting Services

Establishing Directory Services (AD, LDAP) IT Security Planning of Data Transmission Networks Apple Support Centre Scientific Data Management Hardware Purchase

https://www.gwdg.de/services

Data sharing and legal aspects

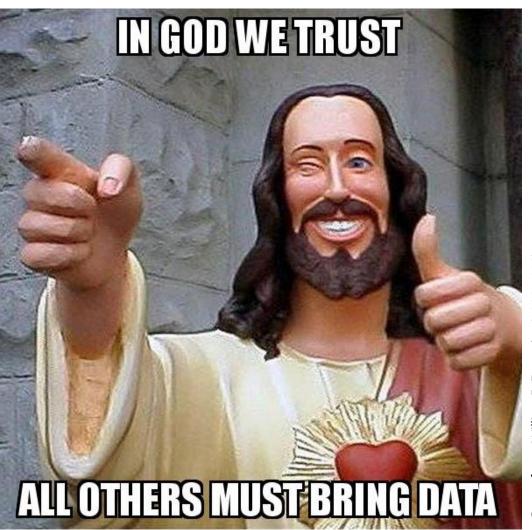


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Data sharing - motivation



Quote from: William E. Demming (1900-1993)

... but active, open, free sharing?



Source: <u>Sharing</u> by ryancr via flickr CC-BY-NC 2.0

Why share?

Reputation

- Get credit for high quality research
- Increased understanding of your methods
- Allows work to be verified by others
- Recognition for contribution to research community
- Extend research beyond your discipline

Funding

- Making data and/or publications available may be a requirement of your funding body
- It may make your funding proposal more attractive when sharing data is not essential



Why share?

Impact

- Sharing makes your data:
 - Easier to find
 - Easier to access
- Open data/publications leads to increased citations

dart (2011) online at: https://commons.wikimedia.org/wik i/File:Darts_in_the_middle_of_a_da rtboard.jpg?uselang=de_CC-BY 2.0

Reuse

- Starting point for a complementary study
- Test data for new software and algorithms
- Teaching purposes
- Contexts not currently envisioned
- Completely different fields

Göttingen

Jannes Pockele

Data sharing – concerns



- Stockpiling for bad times Self-us
- No one likes polishing
- Dirt behind the scenes
- Atmosphere of fear
- Small fishes & unicorns



Data sharing - credits?

- Well documented research data helps your own (future) research
- Shared data may serve as

facilitator for cooperation

- Increased accessibility and usability enable reuse and citations
- Public and open access
 extend the range of your data and research

Responsibilities



• Funders

Recommendations for Secure Storage and Availability of Digital Primary Research Data

- 5. If possible, each scientist or academic makes his or her primary research data freely available on a transregional level.
- Institutions
 Research data policy of the Georg-August University Goettingen (incl. UMG)

The University promotes and supports open access to research data.

Public

Science

Data sharing – real barriers

Place

- no sharing traditionno repositoryno expertise
- Funds
 - no money
- Rights

- no carte blanche



Source: <u>Simatai_Great_Wall</u> by Arian Zwegers on Wikimedia Commons, CC BY SA 2.0

Modes of Sharing

Transfer	Access	Use
Way	Mode	Condition

peer-to-peer	restricted	none
webspace	on demand	agreement
repository	embargo	licence
	open	

Terms & legal concepts

- Intellectual Property (Geistiges Eigentum)
- Copyright (Urheberrecht)
- Copyright transfer (Nutzungsrecht)
- Fair Use / Fair Dealing (Schranken UrhG)
- Licence
- Copyleft
- Information privacy (Datenschutz)



Intellectual property law

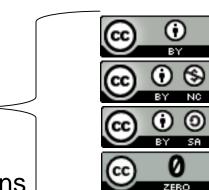
Touched rights

- Copyright
- Trade secret
- Patent
- Data privacy

Strategies

- Fair use
- Contracts and licences
- Clarifying terms of use
- Removing or limiting rights restrictions
- Anonymising your data

List of rights after: Carroll MW (2015) Sharing Research Data and Intellectual Property Law: A Primer. PLoS Biol 13(8): e1002235. doi:10.1371/journal.pbio.1002235





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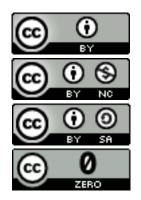
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- Avoid double paying first for the research itself, then for access for the research results
- Transparency of research (Good scientific practice)
- Research ethics
- Open Access Strategy of Göttingen University

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Der Präsident

Die Open Access Politik der Georg-August-Universität Göttingen

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The funders view: DFG Recommendations

- 7. Veröffentlichung wissenschaftlicher Ergebnisse
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c) In Publikationen, die im Rahmen des Sonderforschungsbereichs entstehen, ist auf die Förderung durch die Deutsche Forschungsgemeinschaft hinzuweisen, und der Sonderforschungsbereich sowie das jeweilige Teilprojekt sind zu benennen.

Deutsche Forschungsgemeinschaft Kennedyallee 40 · 53175 Bonn · Postanschrift: 53170 Bonn Telefon: + 49 228 885-1 · Telefax: + 49 228 885-2777 · postmaster@dfg.de · www.dfg.de

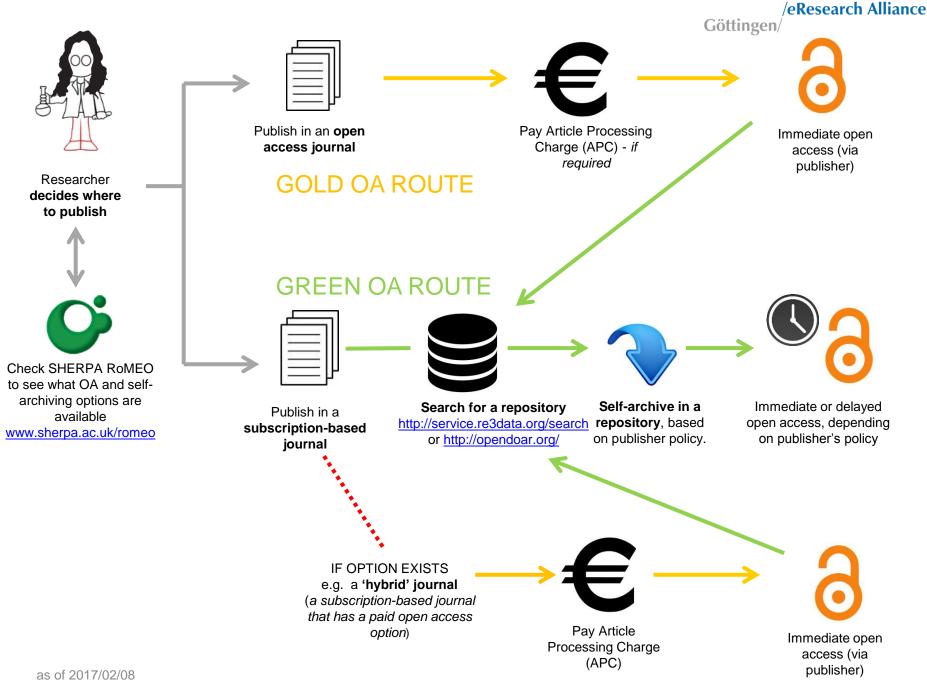


DFG-Vordruck 5.01 - 01/14

Seite 7 von 12

d) Sofern Forschungsergebnisse ausschließlich in gedruckten Medien veröffentlicht werden, erbittet die DFG ein Belegexemplar. Falls eine Veröffentlichung nicht über den Buchhandel zugänglich ist (sog. "graue Literatur"), sondern nur in Form eines gedruckten Forschungsberichts (Report) bekannt gegeben wurde, bittet die DFG darum, je ein Exemplar der Zentralen Sammelstelle für Forschungsberichte bei der Technischen Informationsbibliothek, Welfengarten 1b, 30167 Hannover, und der zuständigen Hochschulbibliothek zuzusenden.

^{as of 2017/02/08} Verwendungsrichtlinien für SFB, <u>http://www.dfg.de/formulare/5_01/5_01.pdf</u>



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OA routes

- Gold: OA Journal \rightarrow (AP Charge) \rightarrow
- Green: SB-Journal $\textcircled{0} \rightarrow$ Self-Deposit \rightarrow
- Hybrid: SB-Journal \bigcirc \rightarrow pay OA-AP \bigcirc \rightarrow \bigcirc

OA routes

• Gold: OA Journal \rightarrow (\land (AP Charge) \rightarrow (\rightarrow) • Green: SB-Journal (\checkmark \rightarrow Self-Deposit \rightarrow (\rightarrow) • **No double dipping** (\rightarrow)

Recommendations

- retain a non-exclusive right to self-archive (Zweitveröffentlichungsrecht)
- Avoid hybrid publications



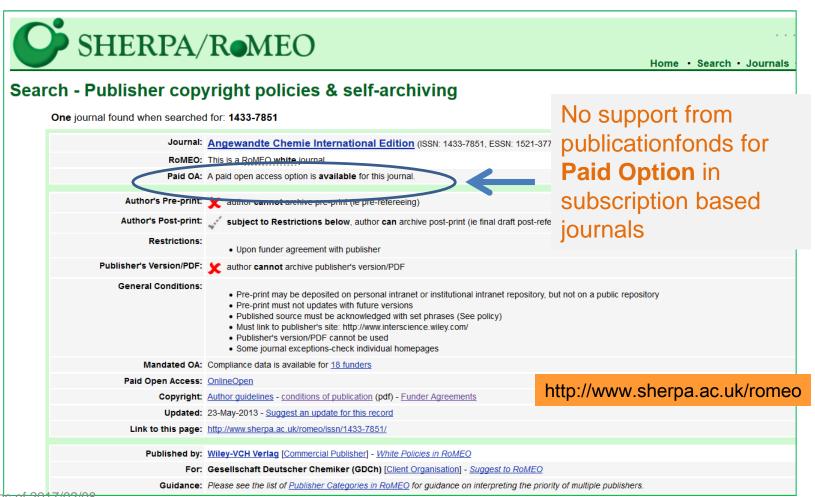
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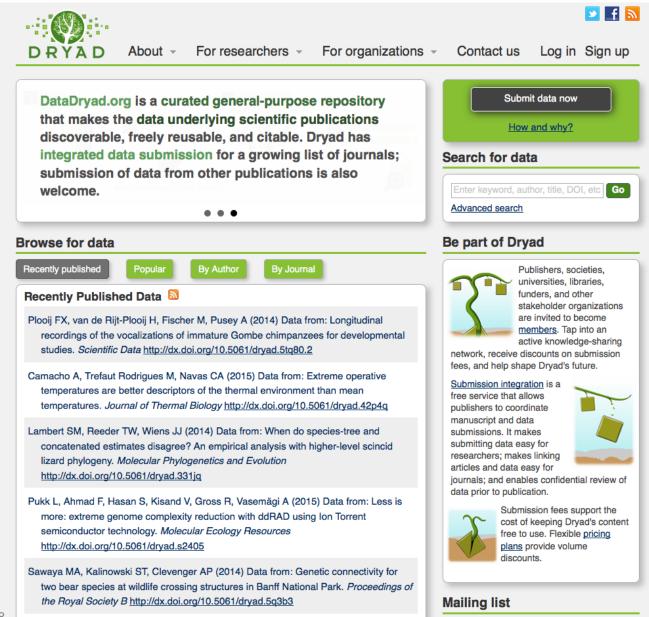
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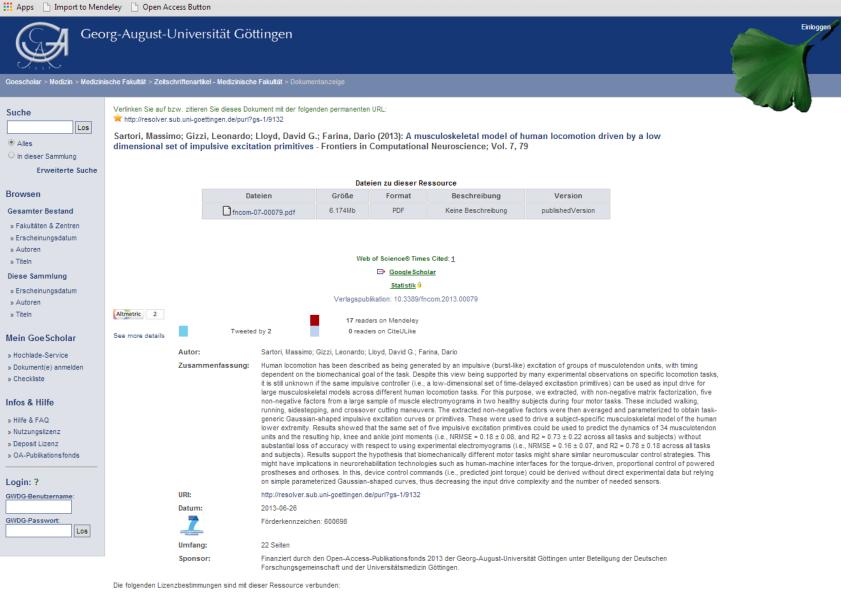
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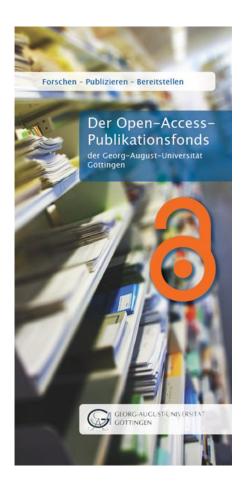
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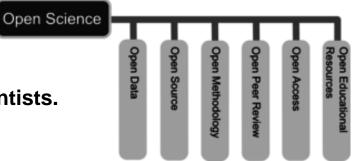
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- The public will misunderstand science data.
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Pros:

- Open access publication of research reports and data allows for rigorous peer-review
- Science is publicly funded so all results of the research should be publicly available
- Open Science will make science more reproducible and transparent
- Open Science has more impact

as of 2017/02/08



Open Science at UGOE

- Open Science network established in Dec 2016
- #OpenScienceGoe
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- Next meeting at March 1st, 14-17
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Wrap up: Best Practices

- Plan your RDM before you start
- Discuss your approach
- Backup your data
- Explain your data
- Share your data



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