

How to organize your harddisk?

Why is it easier to find something on the Internet than
on your hard disk?

On folders and files, not data sets

- General talk on folder and file naming and organization on harddisk
- Formal Data set organization and naming covered by Reinhard in another talk

Common problems with data on hard disk

- User cannot easily find information again, and spend time looking for it. 80% of users fail the “show me” test
- File and folder names inconsistent and lack clear structure
- Different types of data (private, public, shared, non-shared) is mixed, and difficult to share data
- Different versions is mixed up, and difficult to find final/last version
- Data is insufficiently documented, and other people cannot understand it (and after a while neither can the original researcher)

What is the problem of the hard disk?

- We are forced to use simple tree-structure, with folders inside folders, and the search facilities are simple
- But real world logic multi-dimensional for example, topic, organizational context, time, relation to other steps in process
- Internet pages are tagged with meta data, linked, and indexed in very sophisticated ways

Organizing principles for information

Organizing principle	Pros-cons
Organization, people, projects	Subject to change, but legal necessity (owner of data)
Professional knowledge structure	Stable and intuitive to user, but overlapping concepts can be a problem
Type of data, photo, document, raw data, analyzed data, publications	Useful to some types e.g. photos, but often only used at sub category level
Time	Useful for long sequences such as breeding, else mainly e.g. as versioning of files
Geography	Relatively stable, usefulness depends on importance of location

Recommendation for folder structure

- **DEFINE A SYSTEM AND STICK TO IT**
- **IMMEDIATELY SAVE NEW FILE IN PROPER PLACE IN STRUCTURE (NOT IN EMAIL, DESKTOP, MYDOC...)**
- For each **separately funded project**, you want to keep everything related to that two folders (1 **professional**, 1 **personal/contractual**)
- Use the **knowledge structure of your professional work** on a high level as possible, and try to define non-overlapping stable categories
- **Avoid if possible to use organizations and people as organizing principles** as the tend to change e.g CIP is restructuring, but research topics stay the same

Recommendation for folder structure

- Certain type of data such as **photos, literature, GIS, you may want to have in special folder** structured according to your professional logic
- Often your work has a sequence of improvement/processing and at a low level this should be reflected in the file name and possible in folders, e.g. use dates and PD (preliminary draft), 1D, 2D, FD for documents or **raw data, cleaned data, analyzed data**
- **Consider using numbers to order your folders in logical sequence**, rather than alphabetical

Example HD

 11 CIP SASHA

Work and contract folder for CIP

 12 CIP Jens

 21 Litterature

Literature and software general professional categories across jobs

 22 Software

 31 Privat

Private information and previous job

 32 TIC MUNICIPAL

 Downloads

 InterVideo

Folders required by different software installed and garbage from Windows

 My Music

 My Music

 My Pictures










 My Pictures

 My Videos

 My Videos

 Newsbin Download

Example HD - CIP SASHA folder

-  1.1 Germplasm IS
-  2.1 Seed Systems IS
-  3.1 CPro
-  3.2 ME system
-  3.3 Nutritional studies
-  3.4 Qualitative data analysis
-  4.1 Collaborative platform
-  5.1 CIP data management
-  6.1 SASHA

1-4 specific areas of work

5. General area of work

6. Program/institutional work

7. Will probably add folder for other Programs or institutions

Example HD - SASHA Program folder

 11 SASHA prodoc

 21 Workplans

 31 Budget

 41 Reports

Typical content of
Program/project folder

File naming conventions

- Use **key words** that will help you in a search
 - Subject area, geographical region, organization
 - Type of document (Concept note, Budget, Agenda etc)
- **Don't name a file by the person who will receive it or who gave it to you**
- If certain **file types** that are used repeatedly **consider a formal naming convention** e.g. Series-Year-Season-Experiment (OFUG10A05)
- For **non-standard files** use **longer names** that indicates content and key words

More file naming conventions

- Indicate **version and date** for docs with revisions
 - SP breeding Uganda Concept note V02 2010-05-10
- Consider how **numbers and dates can order your files**
 - 2010-05-24 Agenda vs 24 May 2010 Agenda
 - Trial01, Trial02, Trial10 vs Trial1, Trial10, Trial2
- NOTE: For formal Data Sets use the naming conventions of your institution and/or professional best practices

Start reorganizing your harddisk

1. NEVER START RESTRUCTURING WITHOUT EXTERNAL COMPLETE BACKUP IN ORIGINAL STRUCTURE
2. Create a folder “oldData”
3. Move everything into that folder
4. Note: If your harddisk is very full, you may have to work on only a part of the time

Organizing the top level folders

1. Create new folder structure, TOP LEVEL
 1. For each Project (funding source):
 1. Professional (information that will be shared)
 2. Contractual/private (information not to be shared)
 2. General folders
 1. Literature folder
 2. Photos folder
 3. Software folder
 4. GIS data
 5. Video
 6. Private

Organizing Project folder

- For each Project – Professional folder
 - 1 folder for each substantial area of work (non – overlapping)
 - 1 folder for cross cutting issues in your work in the project
 - 1 folder for general project issues (prodoc, workplan, budget, meetings, etc)
 - Possibly one folder for collaborations with other projects, programs, institutions

Organizing Project folder - contract

- For each project (if relevant)
 - Folder for contractual issues
 - Folder for travel claims
 - Folder for time sheets

Other issues to consider

- Consider to use numbers to order folders logically
- Each folder should have some 3-10 subfolders
 - Less than 3 subfolders consider if you need main folder (reduce number of clicks)
 - More than 10 consider to group to avoid scrolling (scrolling is slower than clicking!)