“Data intelligence training for library staff”

iDCC, Amsterdam, January 16th, 2013

Madeleine de Smaele
- Introduction
- Process of development (3 phases):
  1) investigation of the training needs
  2) design of the course
  3) development of training materials
- Four modules:
  1) Current topics
  2) Data management
  3) Technical skills
  4) Acquisition & Advise
- Findings of the first pilot training
- Conclusions
- Future developments
Introduction

3TU.Datacentrum

• Data archive
• Data labs
• Data services
Data services

Data Intelligence 4 Librarians
• Focus on support staff, particularly librarians
• Supports library’s mission to be a partner in research:

Data intelligence 4 librarians want to contribute to the professionalization and positioning of support staff as a trusted partner in the support of data-intensive research
3 phases:

- Investigation of the training needs
- Design of the course
- Development of the training materials
Phase 1: Investigation of the training needs

- Information sessions with library staff of 3TU
  Need for: technical skills and soft skills
Phase 2: Design of the course

Competence-based modular course, combining online and face-to-face tuition (blended learning)
7 core competences defined:

- Handles ICT skilfully
- Has specific library knowledge
- Develops entrepreneurship
- Develops a systemic view
- Develops advisory skills
- Develops collaboration skills
- Develops training materials
4 modules:

1. Current topics
2. Data management
3. Technical skills
4. Acquisition & Advice
Module 1: Current topics

Main goal: gain understanding about the current developments in the working field of the data librarian who is supporting researchers/research groups in their research data management.

Do it together!
Module 2: Data management

Main goal: learn to advise researchers/research groups on ways to prepare research data for storage and (re)use.

- research process
- data life cycle
- data management plan
- data selection
- data formats
- metadata
- data policy
- data and the law

Image retrieved from: monstaware.blogspot.com
Module 3: Technical skills

Main goal: learn more about ways research data can be archived and (re)used in 3TU.Datacentrum.

- citing data
- digital objects
- data processing
- enhanced publications
- data labs
Module 4: Acquisition and advise

**Main goal:** gain insight into the factors which positively influence the quality of an acquisition or advice

- from acquisition to advice
- phases in acquisition
- Stages of change
- Arguments
- On conversations
- Barriers
- Data interview
- Cases

Image retrieved from: keenetrial.com
Phase 3: Development of training materials

- content of the website
- images
- homework assignments & role plays
Welcome

This is the reference material for the course Data Intelligence 4 Librarians developed by 3TU.Datacentrum

News & Agenda

» Data Intelligence 4 Librarians online!

The course in brief

What will you learn?
During the course you will acquire knowledge about ways in which research data can be prepared for storage, archived and (re)used. After the course you will have gained understanding about the meaning of research data in scientific research. You will be able to advise researchers/research groups on efficient and effective ways to add value to their data.

How are we going to accomplish this?
With a didactical mix of group meetings, online study and doing assignments. The contents of this website are intended as reference material. See About the course for detailed information.

Mission

The course Data Intelligence 4 Librarians wants to contribute to the professionalisation and positioning of the library and its employees to be a partner in the support of data-intensive science.
Selection criteria for curating research data

- costs for archiving (can be too expensive)
- difficult to archive (lack of metadata)
- repeatable & low costs associated with (re)creation

- unique data
- irrereplaceable data (nonrepeatable)
- repeatable but high costs associated with (re)creation of data
- obligation to preserve data

Data Management Plan
written before the start of a research project
what data are expected?
First pilot training

Main findings/issues:

- the set-up of the course was not completely clear
- participants appreciated their discussions
- participants were interested to hear from researchers themselves how they deal with data management issues
- participants would have liked more actual use cases
- participants missed the opportunity to practice writing an actual data management plan
- participants urgently needed practical information about setting up a front office for data management services
- participants appreciated the images included in the course material on the website
Conclusions

- The development of the course was a leap into the unknown as no similar courses existed in The Netherlands or abroad at that time.

- Our pragmatic approach of just getting started has paid off. Participants while appreciating the course as a whole, have indicated some shortcomings, thereby enabling improvements.
Cooperation with DANS

- Extension of the course to other disciplines
- Learning materials are expanded
- DANS provides one of the coaches, making it a truly joint undertaking
Next steps

- Design of a new, flexible and dynamic learning environment to make the course more interactive, collaborative and constructive.

Starting January 2013!
Acknowledgement

Authors of the paper:

• Nicole Potters
• Ellen Verbakel
• Marina Noordegraaf - www.verbeeldingskr8.nl
• Madeleine de Smaele
Website: http://dataintelligence.3tu.nl/en/home/
Follow us at Twitter via @datalibrarians
Or contact me: m.m.e.desmaele@tudelft.nl