



A Data Carpentry Workshop

Data Management beyond Excel

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Data Carpentry

In many domains of research the rapid generation of large amounts of data is fundamentally changing how research is done. The deluge of data presents great opportunities, but also many challenges in managing, analyzing and sharing data. Data Carpentry is designed to teach basic concepts, skills and tools for working more effectively with data. The workshop is aimed at researchers in the life sciences at all career stages and is designed for learners with little to no prior knowledge of programming, shell scripting, or command line tools.

Workshop Learning objectives & programme

Researchers should be able to retrieve, view, manipulate, analyze and store their's and other's data in an open and reproducible way. The workshop will cover the following topics:

- How to use spreadsheet programs (such as Excel) more effectively, and the limitations of such programs.
- Getting data out of spreadsheets and into more powerful tools (R).
- Using databases, including managing and querying data in SQL.
- Workflows and automating repetitive tasks, in particular using the command line shell.

Acknowledgements & Support

The workshop is supported by the ELIXIR programme (<http://www.elixir-europe.org/>). Data Carpentry (<http://www.datacarpentry.org/>) is a sibling organization of Software Carpentry (<http://www.software-carpentry.org/>) and is designed to teach basic concepts, skills and tools for working more effectively with data. The structure and objectives of the curriculum as well as the teaching style are informed by Software Carpentry.