Reproducibility

Practical Session

R and Stats Workshop 23rd and 24th November 2016

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Steps to reproducibility

- *Script where possible/ Script everything* - All analysis will be conducted in **R** including data preparation

- *Document your code* - We will both comment the code we write and demonstrate how to incorporate code and text within an **RMarkdown** document

- *Document your workflow* - We will use an **RStudio Project**, which will group all the files required for a particular analysis

- *Use version control* - The Project we create will be version controlled with **git** and could later be published on **Github**

Dataset
Elemental concentrations in fish from lakes in Northwest England

This resource is made available under the terms of the Open Government Licence

Barnett, C.L.; Wells, C.; Thacker, S.; Guyatt, H.J.; Fletcher, J.M.; Lawlor, A.J.; Winfield, I.J.; Beresford, N.A. (2015)
https://doi.org/10.5285/ed90df1b-462c-46bb-afbd-59794fb03f6b

Data comprise concentrations of elements in ashed fish sampled from lakes in the English Lake District in 2012 and 2013. Fish were collected from three lakes (Windermere, Bassenthwaite Lake and Derwent Water) by the Centre for Ecology & Hydrology (CEH) Lake Ecosystems group. Fish species collected were Roach (Rutilus rutilus), Perch (Perca fluviatilis), Ruffe (Gymnocephalus cernuus), Brown trout (Salmo trutta), Pike (Esox lucius) and Vendace (Coregonus albula). All samples were ashed prior to analysis by ICPMS or ICPOES to determine elemental concentrations.

Publication date: 2015-03-04

Where/When

Study area

Temporal extent
2012-01-02 to ...

Online Resources

Supporting information

Get the data

⬇ Download the data

📄 Supporting documentation

Format of the dataset: text/csv

Use of this resource is subject to these restrictions

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You must cite: Barnett, C.L.; Wells, C.; Thacker, S.; Guyatt, H.J.; Fletcher, J.M.; Lawlor, A.J.; Winfield, I.J.; Beresford, N.A. (2015). Elemental concentrations in fish from lakes in Northwest England. NERC Environmental Information Data Centre. https://doi.org/10.5285/ed90df1b-462c-46bb-afbd-59794fb03f6b

BibTeX   RIS

Registration is required to access this data

Provide feedback / Report a problem

RStudio Projects

- *Document your workflow* - We will use an **RStudio Project**, which will group all the files required for a particular analysis

- Can be set up later on using an existing folder

- Essential for using git in RStudio