From Lab to Web - managing and sharing data with R, SQL, and Shiny

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Data management is an important aspect of long-term ecological studies as well as in other related research fields. This is especially true when multiple researchers (PI, students) are collecting and storing new data. Luckily, in recent years, tools for handling and processing large amounts of data are available for non-expert users. In this talk, I will present general workflow of data-base (DB) construction, using mostly R language and PostgreSQL. Latter, interactive exploration of the created DB will be demonstrated using the R web-interface package 'Shiny'. The take-home massage of this talk will be that DB construction and web-interface development are valuable tools in modern research and can be developed by users with some experience in R programming (which hopefully many of us have).

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