

Introduction to Shiny in R

Tutor	Dr Nicolas Attalides
Organization	Digital Skills, University of Lucerne
Language	English
ECTS-Points	
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Dates and time	Online Friday 1 st March 2024 (Day 1) Saturday 2 nd March 2024 (Day 2) 9:30 – 16:30

Content	<p>Shiny is an R package that has revolutionised the R programming language! It has made R even more exciting and accessible to wider audiences.</p> <p>With Shiny you can create interactive web applications by writing code only in R. You, as the shiny app developer, have full control to design a reactive user interface that contains a suite of widgets such as sliders, drop-down lists, buttons, checkboxes etc. When you share your shiny application, a user can very easily interact with data, visualisations, and tables that you created without any technical knowledge.</p> <p>This two-day course focuses on introducing the {shiny} package to the participants and teaches the main building blocks required to design and build an interactive web application in R.</p> <p>The course is structured to cover the following topics:</p> <ul style="list-style-type: none">• Get started with R and Shiny• Build your first Shiny app• Construct the inputs• Construct the outputs• Reactivity in Shiny apps• User Interface design, layout, and buttons• Deploy and share your app
Prerequisites/ Materials	<p>Course participants are expected to have some basic knowledge of the R programming language. Prior experience in basic data analysis (such as data manipulation and visualisation) would help the learning experience but is not required.</p> <p><i>Note: You do not need prior knowledge of HTML, CSS, or JavaScript... everything is built using R!</i></p> <p>Participants should have their own laptop with R, RStudio and the relevant packages installed. Instructions for the technical setup will be circulated by the instructor before the course.</p> <p>Learning material such as slides, code and solutions to exercises will be circulated by the instructor after the course.</p>
Teaching method	<p>This course includes a range of activities such as shiny application demos, live-coding sessions, interactive quizzes, and practical exercises to work individually or in a group. Active participation and contribution are recommended.</p>