2018 WORKSHOP – 26-28 MARCH – UPPSALA, SWEDEN

CONNECTING DATA WITH PEOPLE
Interactive, web-based human and animal health data visualisation with RStudio Shiny

Dr Uli Muellner, EPI-interactive, uli@epi-interactive.com

SUMMARY
RStudio Shiny is becoming an increasingly popular tool for web-based, interactive data visualisations. The open source framework provides a flexible way to create and output modern information dashboards while drawing on the statistical power of R in combination with commonly used web technologies.

This hands-on workshop will familiarise you with RStudio Shiny programming and will cover design approaches, coding essentials and how to publish your newly created app.

MATERIALS
Provided (per download link):
- Workshop notes and instructions
- Coding examples

Participants to bring:
- Their own laptop with R and RStudio installed:
  - R version 3.3.0 or later
  - RStudio 1.0.136 or later

PREREQUISITES
- Basic R programming skills
- Some programming experience in HTML would be beneficial; however it is not mandatory

Three-day data visualisation workshop
Hosted by the Swedish National Veterinary Institute, Uppsala, Sweden
Cost EUR 950, excl. VAT
Maximum number of participants: 15
Workshop language: English

Please email info@epi-interactive.com to register
Registration closes 14 February 2018 (after this a late registration fee of EUR 100 applies, places are subject to availability)
PROGRAM

Day 1 (Starter)
- Welcome and intro, incl. demonstrations of Shiny apps
- Getting set up and version control
- How to build a basic app
- Shiny interface layout
- Adding user interface components and reactivity
- Shiny publishing: options, pros and cons

Day 2 (Starter)
- Utilising different data sources
- Design approaches for effective and stunning interfaces for data visualisations
- Creating dynamic user interfaces and null-checking
- Integrating interactive, vector-based graphs: Plot.ly, Google Charts, nvD3
- Top 10 tips when working with Shiny

Day 3 (Advanced)
- Controlling reactivity: observe, isolate, eventReactive, observeEvent, freezeReactiveValues
- Optional: spatial visualisations with Leaflet
- Shiny debugging strategies
- Using bootstrap grid system for supporting multi-devices
- Customising the look and feel: theming
- Custom inputs

FACILITATOR

Dr. Uli Muellner is an IT professional with a background in adult teaching and computer science, including a PhD in media education. Uli is a director of EPI-interactive, a Wellington-based consultancy company (epi-interactive.com) where he heads the data visualisation and e-Learning portfolio.

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