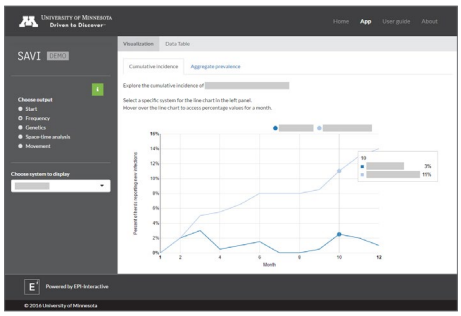
EPI-interactive

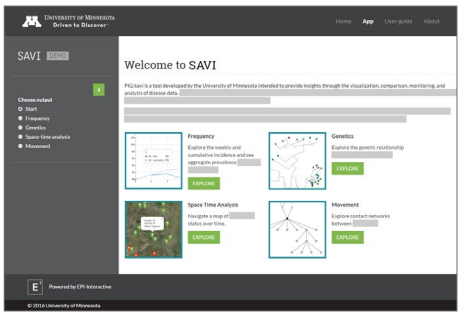
2018 WORKSHOP – 26-28 MARCH – UPPSALA, SWEDEN

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





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)

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

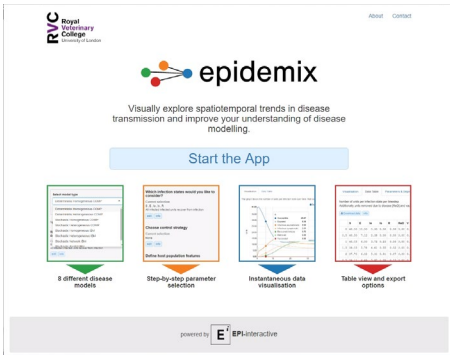
Participants to bring:

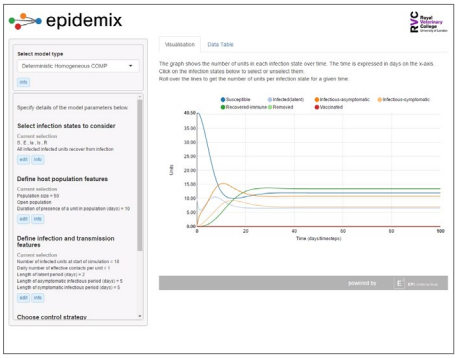
Their own laptop with R and RStudio installed:

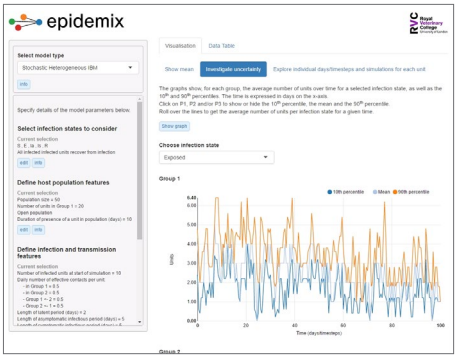
- R version 3.3.0 or later
- RStudio 1.0.136 or later

PREREQUISITES

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







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.

www.epi-interactive.com