

learnR report 2017

Mark Kelson

16 June 2017

Introduction

Following a scoping visit conducted by Mark Kelson (MK) over June 2016, a priority objective was identified to deliver training in statistical software. The choice of software is the free, open-source, enterprise-ready software R. Over the course of the following 12 months MK organized a team of statistical and R experts to develop a three day introductory training course in R. Monthly skype contacts with our lead local organiser Lilian Pazvakawambwa (LP) were maintained over this period. In addition Dave Gillespie (DG) and Paul Brennan (PB) joined MK to travel to UNAM to deliver the training. Support was also received from Nelago Indongo (NI) of UNAM and Daniel Farewell (DF) and Chao Huang (CH) of Cardiff University.

Results

The course ran for three days from 12-14th of June in the computing lab WXXXX in the science block. This room easily hosted the 20 delegates that signed up for the course. Delegates, their affiliations (where known) and contact details are supplied in Appendix 1. The timetable of the event is provided in table 1.

learnR timetable		
Day 1		
Time	Session	Lead
09.00 – 09.30	Installation	All
09.30 – 10.00	Ice-breaker	MK
10.00 – 11.00	Introduction to R	MK
11.00 – 11.30	Coffee	
11.30 – 12.30	Getting data into R	MK
12.30 – 13.30	Lunch	
13.30 – 14.30	Dataframes	DG
14.30 – 15.00	Coffee	
15.00 – 16.00	Manipulating data	MK
16.00 – 16.30	Questions & summary	ALL
Day 2		
09.30 – 11.00	Graphing/visualization and exploring data Part I	PB
11.00 – 11.30	Coffee	
11.30 – 12.30	Graphing/visualization and exploring data Part II	PB
12.30 – 13.30	Lunch	
13.30 – 14.30	Linear models part I	MK
14.30 – 15.00	Coffee	
15.00 – 16.00	Linear models Part II	MK
16.00 – 16.30	Questions & summary	ALL
Day 3		
09.30 – 11.00	Generalised linear models	MK
11.00 – 11.30	Coffee	
11.30 – 12.30	Delegate data sharing	UNAM
12.30 – 13.30	Lunch	
13.30 – 14.30	Reporting, scientific writing, interpretation	DG
14.30 – 15.00	Coffee	
15.00 – 16.00	Markdown, trouble shooting, reusable workflows	PB

learnR timetable		
16:00 – 16:30	Questions/troubleshooting/summary	MK

Appendix 1

```
delegates <- read.csv("/Users/Mark/Documents/GitHub/learnR/data/delegates.csv")
delegates[1:3]
```

```
##           Name
## 1      Charles Mapira
## 2      Marina Muller
## 3      Simon Kashihalwa
## 4      Immanuel Shipanga
## 5      Jonas Amunyela
## 6      Anneline Pick
## 7      Ahmad Cheikhoussef
## 8      Werner Embashu
## 9      Isabelle Ueitele
## 10     Nelago Indongo
## 11     Werner Tjipueja
## 12     Vijayakumar Kandaswamy
## 13     Ezekeil Kwembeya
## 14     Liina Shivute
## 15     Nguza Siyambango
## 16     Jason Nakaluudhe
## 17     Rapikama Mumbuu
## 18     Pineas Tomas
## 19     Dismas Ntirampeba
## 20     Opeoluwa Oyedele
## 21     Emmanuel Lutaaya
## 22     Lawrence Kazembe
## 23     Meed Mbidzo
##
##           Dept
## 1
## 2      Lecturer in Statistics
## 3      MSc in Biostatistics
## 4      Lecturer Statistics and Demography
## 5
## 6      MRC
## 7      HOD Science and technology
## 8      MRC
## 9      Technologist- Zero Emissions Research Initiative
## 10     Director, MRC
## 11     Lecturer in Statistics
## 12
## 13     Senior lecturer Biological Sciences
## 14     Library assistant
## 15     Researcher MRC
## 16
## 17     MSc Applied statistics and demography
## 18     Researcher MRC
```

## 19	Lecturer, Maths and Stats
## 20	Maths and Stats
## 21	HOD: Animal Science
## 22	HOD: Statistics
## 23	Lecturer: agriculture and natural resources sciences
##	Email
## 1	ch4rle5.mapira@gmail.com
## 2	mmuller@unam.na
## 3	skashihalwa@yahoo.com
## 4	ishipanga@unam.na
## 5	amunyelal@gmail.com
## 6	apick@unam.na
## 7	acheikhyoussef@unam.na
## 8	wembashu@unam.na
## 9	iUeitele@unam.na
## 10	nkanime@unam.na
## 11	wernertjipueja@unam.na
## 12	vkandaswamy@unam.na
## 13	ekwembeya@unam.na
## 14	lshivute@unam.na
## 15	nsiyambango@unam.na
## 16	jnakaluudhe@gmail.com
## 17	rapikamamumbuu@yahoo.com
## 18	ptomas@unam.na
## 19	dntirampeba@nust.na
## 20	ooyedele@nust.na
## 21	elutaaya@unam.na
## 22	lkazembe@unam.na
## 23	mmbidzo@nust.na