Welcome!

Get set up so long:

1. Connect to the wifi:
   - Guest@The_Barn
   - ********

2. Go to bit.ly/rladiescpt21

3. Download or clone the repo

4. Open "rladies_tutorial.Rproj"

What's in a date?

Data visualisation of time series

Activity.Type	Date	Distance	Calories	Time	Avg.Pace	Elev.Gain	year	month	week	wday	hour
running	2018-08-01 18:19:10	10.27	351	50:36	4:56	91	2018	Aug	31	Wednesday	18
running	2018-07-31 06:23:37	7.36	311	31:40	4:18	7	2018	Jul	31	Tuesday	6
running	2018-07-29 08:11:23	24.92	1731	4:17:17	10:20	1779	2018	Jul	30	Sunday	8
running	2018-07-28 10:20:10	14.13	1308	2:49:24	11:59	1190	2018	Jul	30	Saturday	10
running	2018-07-27 06:03:23	7.21	243	38:03	5:17	36	2018	Jul	30	Friday	6
running	2018-07-26 07:03:11	8.13	262	40:48	5:01	42	2018	Jul	30	Thursday	7
running	2018-07-25 17:48:58	10.82	472	49:51	4:36	18	2018	Jul	30	Wednesday	17
running	2018-07-24 17:46:15	10.16	510	51:09	5:02	91	2018	Jul	30	Tuesday	17
running	2018-07-21 11:58:47	1.68	125	12:15	7:18	32	2018	Jul	29	Saturday	11
running	2018-07-21 08:54:54	18.97	1235	2:28:18	7:49	1288	2018	Jul	29	Saturday	8
running	2018-07-19 07:25:19	10.23	610	53:28	5:14	170	2018	Jul	29	Thursday	7
running	2018-07-18 17:35:40	12.01	680	1:00:46	5:03	206	2018	Jul	29	Wednesday	17
running	2018-07-17 06:02:36	9.07	362	38:04	4:12	9	2018	Jul	29	Tuesday	6
running	2018-07-15 08:36:09	11.06	760	1:02:02	5:37	373	2018	Jul	28	Sunday	8
running	2018-07-14 08:16:45	18.33	1106	1:26:10	4:42	151	2018	Jul	28	Saturday	8
running	2018-07-12 17:48:38	10.47	581	49:23	4:43	55	2018	Jul	28	Thursday	17
running	2018-07-11 17:35:05	13.69	721	1:04:34	4:43	117	2018	Jul	28	Wednesday	17
running	2018-07-10 06:00:30	9.45	312	44:17	4:41	20	2018	Jul	28	Tuesday	6
running	2018-07-07 05:37:23	25.06	848	2:06:57	5:04	244	2018	Jul	27	Saturday	5
running	2018-07-05 17:47:30	12.10	664	57:20	4:44	57	2018	Jul	27	Thursday	17
running	2018-07-04 16:50:03	12.66	894	1:14:39	5:54	513	2018	Jul	27	Wednesday	16

From this….

Data visualisation of time series

Heatmap showing weekly activity pattern
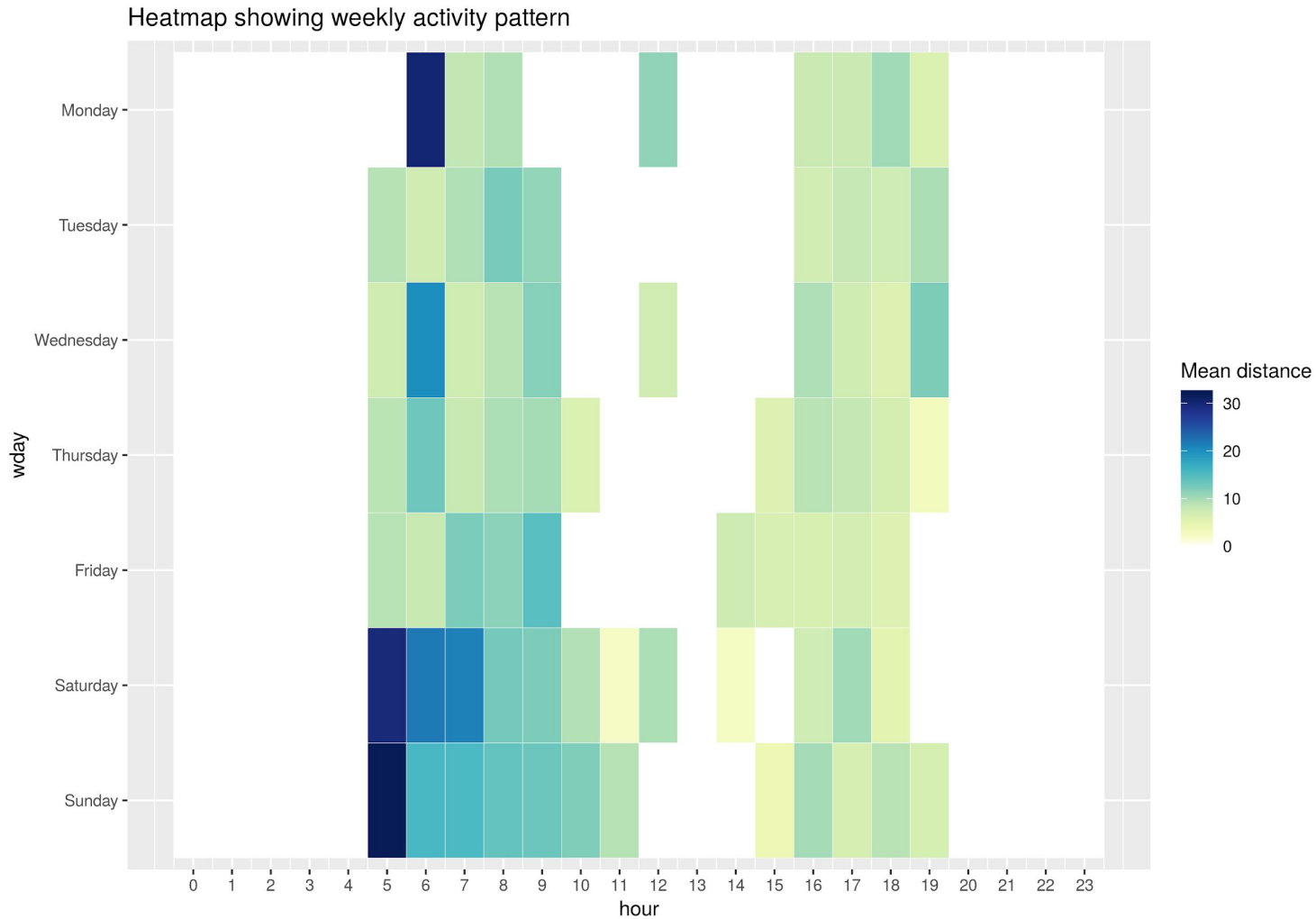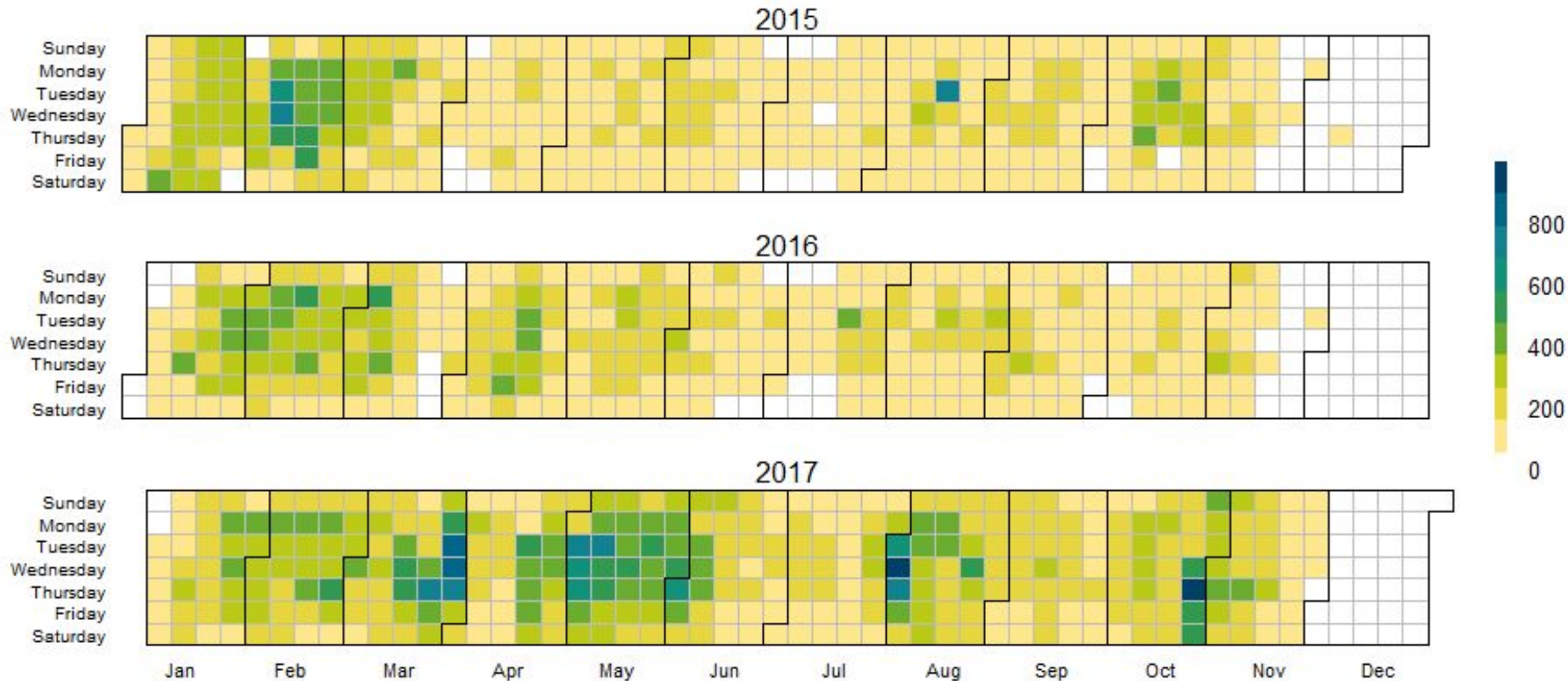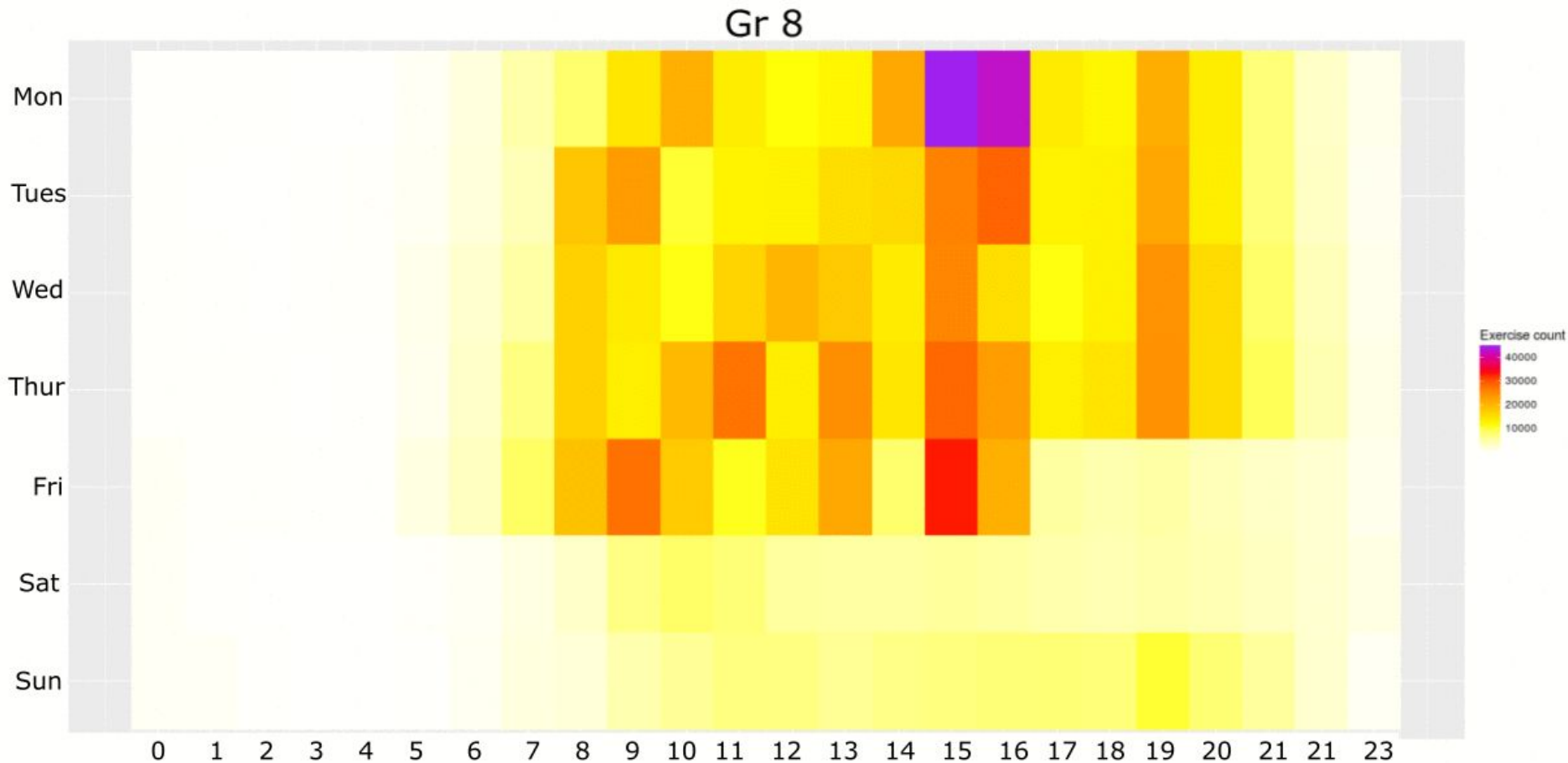
...to this.

Heatmaps for a variety of use cases

Calendar Heat Map of Account Creation

Heatmaps for a variety of use cases

Gr 8

Investigating patterns in user behaviour
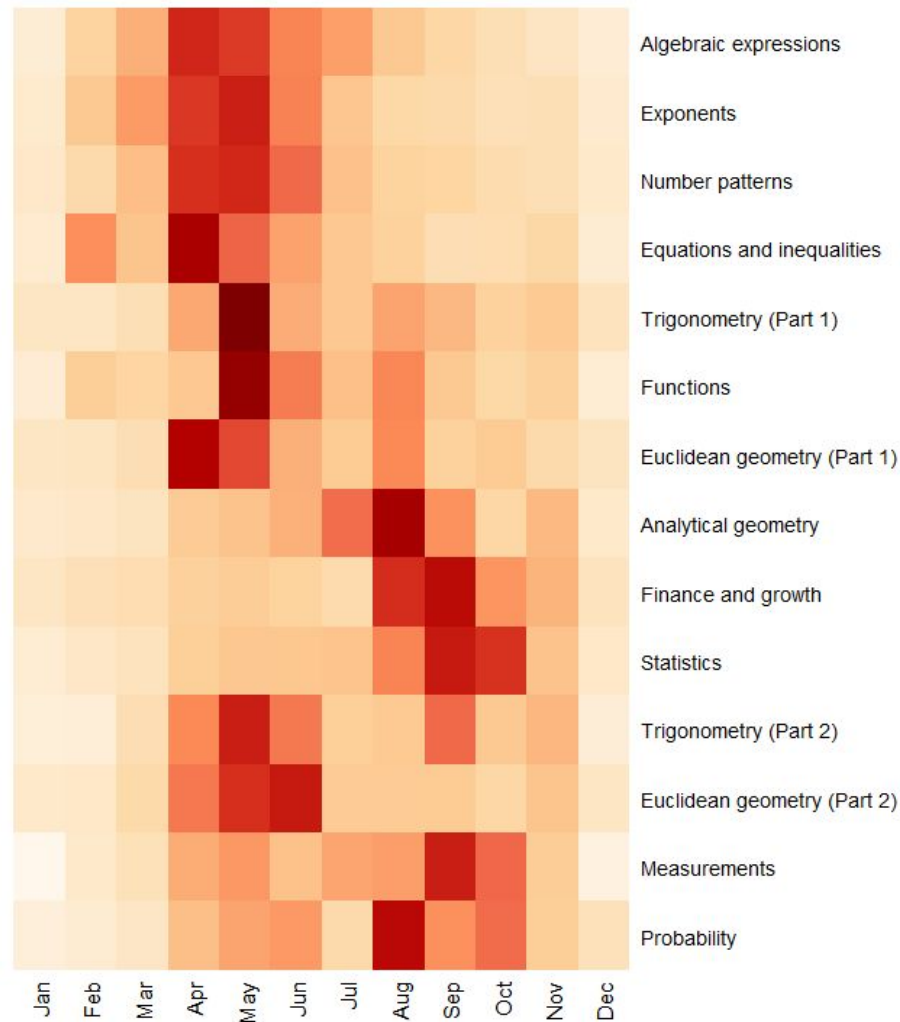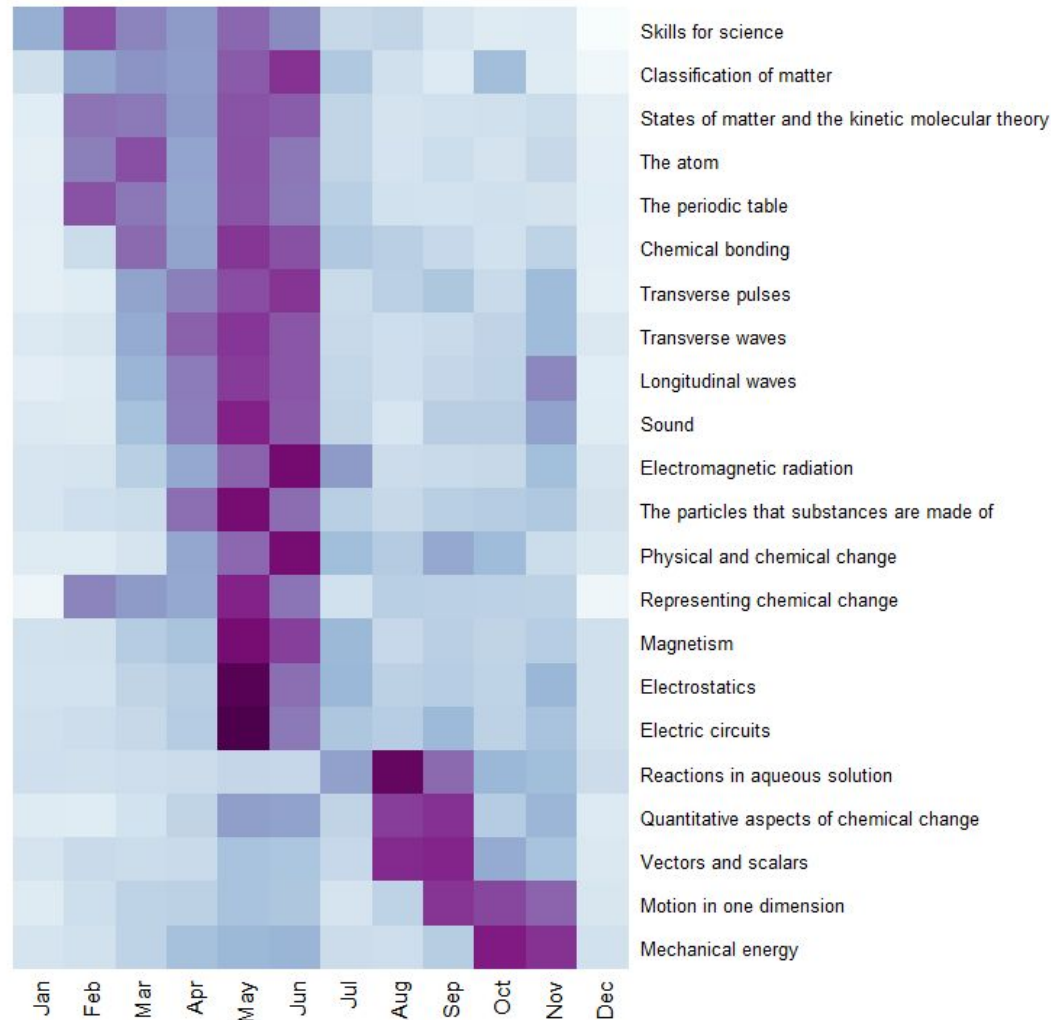
Heatmaps for a variety of use cases

Gr 10 Mathematics - CAPS public schools (2016)

Heatmaps for a variety of use cases

Gr 10 Science - CAPS public schools (all years)

Large scale monitoring of policy implementation

Before we move over to R!

Some local events coming up:

Deep Learning Indaba
   Date: 9-14 September 2018
   Location: Stellenbosch University

SQL Saturday 793 – Cape Town
   Date: 8 September 2018
   Location: The River Club, Observatory

Let's go!