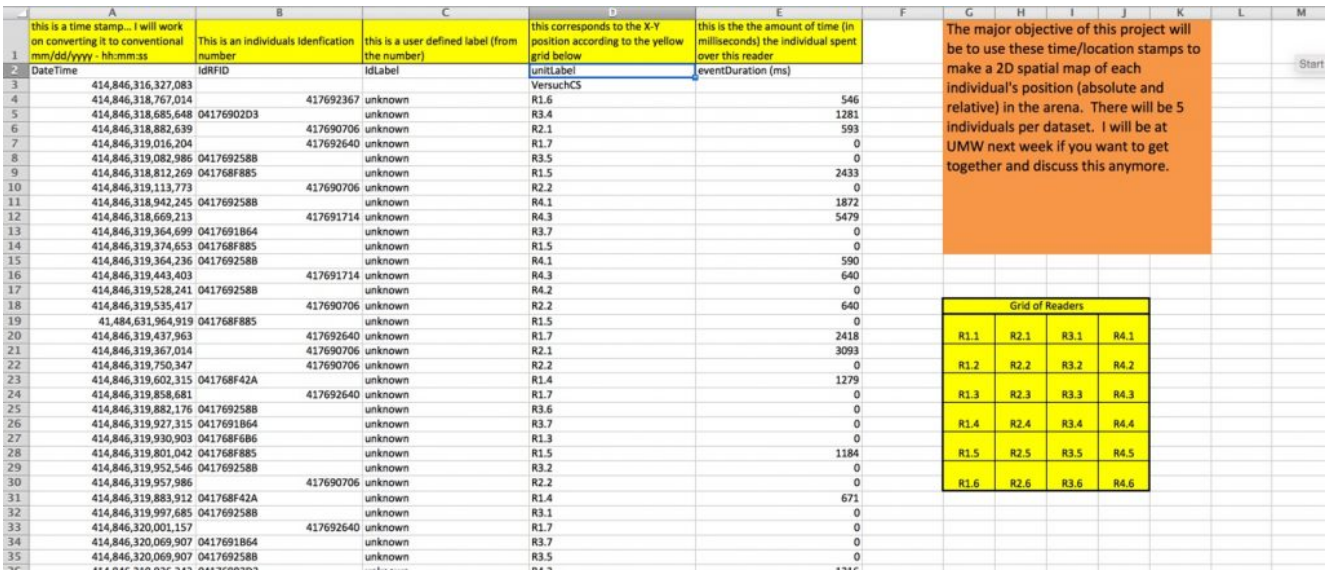
Parrish Waters Project (Fall 2016)

Parrish Waters (rwaters)

Create a way to map mice/rat on a grid and show paths that were taken of 1 – 8 mice over a period of time. Would want heat map of where they stay the longest.

This one involves excel, and extrapolating X-Y position from a grid of ‘readers’.

The project would read in a series of excel files and then plot the data based on a set of totals. The is a grid that is shown in the below screenshot of where the mice can possibly go. He would like to do a line drawing of the where the mice go based on a time selection. He would like to choose which mice to display. In addition he would then like to use a heat map to display how long a mouse stays in a specific location.



	A	B	C	D	E
1	this is a time stamp... I will work on converting it to conventional mm/dd/yyyy - hh:mm:ss	This is an individuals Idenfication number	this is a user defined label (from the number)	this corresponds to the X-Y position according to the yellow grid below	this is the the amount of time (in milliseconds) the individual spent over this reader
2	DateTime	IdRFID	IdLabel	unitLabel	eventDuration (ms)
3	414,846,316,327,083			VersuchCS	
4	414,846,318,767,014	417692367	unknown	R1.6	546
5	414,846,318,685,648	04176902D3	unknown	R3.4	1281
6	414,846,318,882,639	417690706	unknown	R2.1	593
7	414,846,319,016,204	417692640	unknown	R1.7	0
8	414,846,319,082,986	0417692588	unknown	R3.5	0
9	414,846,318,812,269	041768F885	unknown	R1.5	2433
10	414,846,319,113,773	417690706	unknown	R2.2	0
11	414,846,318,942,245	0417692588	unknown	R4.1	1872
12	414,846,318,669,213	417691714	unknown	R4.3	5479
13	414,846,319,364,699	0417691B64	unknown	R3.7	0
14	414,846,319,374,653	041768F885	unknown	R1.5	0
15	414,846,319,364,236	0417692588	unknown	R4.1	590
16	414,846,319,443,403	417691714	unknown	R4.3	640
17	414,846,319,528,241	0417692588	unknown	R4.2	0
18	414,846,319,535,417	417690706	unknown	R2.2	640
19	41,484,631,964,919	041768F885	unknown	R1.5	0
20	414,846,319,437,963	417692640	unknown	R1.7	2418
21	414,846,319,367,014	417690706	unknown	R2.1	3093
22	414,846,319,750,347	417690706	unknown	R2.2	0
23	414,846,319,602,315	041768F42A	unknown	R1.4	1279
24	414,846,319,858,681	417692640	unknown	R1.7	0
25	414,846,319,882,176	0417692588	unknown	R3.6	0
26	414,846,319,927,315	0417691B64	unknown	R3.7	0
27	414,846,319,930,903	041768F6B6	unknown	R1.3	0
28	414,846,319,801,042	041768F885	unknown	R1.5	1184
29	414,846,319,952,546	0417692588	unknown	R3.2	0
30	414,846,319,957,986	417690706	unknown	R2.2	0
31	414,846,319,883,912	041768F42A	unknown	R1.4	671
32	414,846,319,997,685	0417692588	unknown	R3.1	0
33	414,846,320,001,157	417692640	unknown	R1.7	0
34	414,846,320,069,907	0417691B64	unknown	R3.7	0
35	414,846,320,069,907	0417692588	unknown	R3.5	0

The major objective of this project will be to use these time/location stamps to make a 2D spatial map of each individual's position (absolute and relative) in the arena. There will be 5 individuals per dataset. I will be at UMW next week if you want to get together and discuss this anymore.

Grid of Readers			
R1.1	R2.1	R3.1	R4.1
R1.2	R2.2	R3.2	R4.2
R1.3	R2.3	R3.3	R4.3
R1.4	R2.4	R3.4	R4.4
R1.5	R2.5	R3.5	R4.5
R1.6	R2.6	R3.6	R4.6