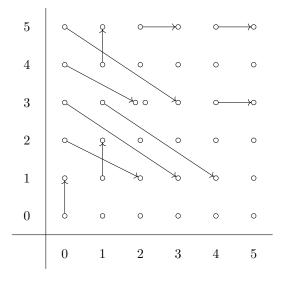
Visit this link for the documentation.

Exercise 1 (Harder, try last! Test out your skills with the package, not a real spectral sequence):

Make the following diagram on your own. (Hint: I'm on page 0, using cohomological Serre grading, and I used a for loop to make my life easier.) What is the E_4 page of this spectral sequence? Why does Scotty like the E_4 page?



Exercise 2 (Start here!)

Make the following diagram on your own! (Hint: I'm on page 0, using Adams grading, and I used some loops plus math to make my life easier)

5 4 3 2 1	0						0		0		0
2	0		0				0		0		0
1	0								0		
											0
	0	1	2	3	4	5	6	7	8	9	10

Question: What differentials have a chance to be supported here? Remember, we're using Adams grading!

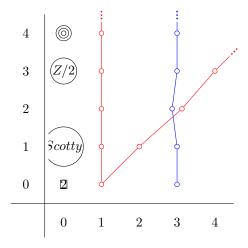
Exercise 3:

What differentials could be supported on this spectral sequence using the Adams grading? Note that the scaling is different between the two axes!

20	0	0	0	0	0	0	0	0	0	0	0
19 18 17	0	0	0	0	0	0	0	0	0	0	0
16 15	0	0	0	0	0	0	0	0	0	0	0
14 13	0	0	0	0	0	0	0	0	0	0	0
12 11	0	0	0	0	0	0	0	0	0	0	0
10 9	0	0	0	0	0	0	0	0	0	0	0
8 7	0	0	0	0	0	0	0	0	0	0	0
6 5	0	0	0	0	0	0	0	0	0	0	0
$\frac{3}{4}$	0	0	0	0	0	0	0	0	0	0	0
2 1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
	0	1	2	3	4	5	6	7	8	9	10

Exercise 4

Create this spectral sequence page 0 with Adams grading!



Exercise 5:

Create a spectral sequence with Adams grading using differentials going from 0 to 3 to make some dots in a pattern that are your first initial.