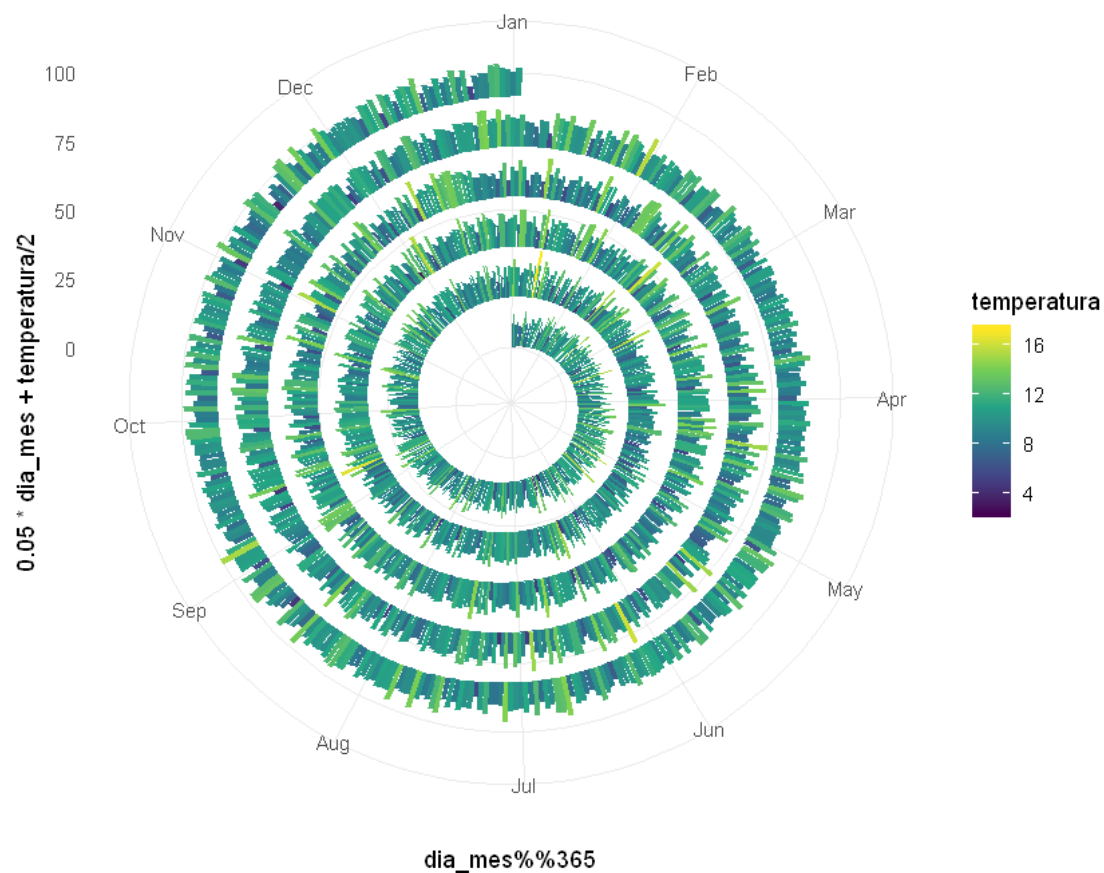# Spiral Plot

April 22, 2024

```
[5]: library("ggplot2")
```

```
[2]: datos <- data.frame(fecha = seq.Date(from = as.Date("2019-01-01"), to = as.
      ↪Date("2023-12-31"), by = 1), dia_mes = 1:1826, temperatura = rnorm(1826, 10,␣
      ↪2))
```

```
[3]: datos
```

fecha	dia_mes	temperatura
2019-01-01	1	8.797257
2019-01-02	2	11.869779
2019-01-03	3	8.077594
2019-01-04	4	7.986367
2019-01-05	5	8.996180
2019-01-06	6	7.506026
2019-01-07	7	7.779792
2019-01-08	8	7.176175
2019-01-09	9	13.018843
2019-01-10	10	11.726334
2019-01-11	11	8.088554
2019-01-12	12	8.859862
2019-01-13	13	6.999037
2019-01-14	14	8.816352
2019-01-15	15	10.719979
2019-01-16	16	10.101198
2019-01-17	17	9.282210
2019-01-18	18	10.456297
2019-01-19	19	11.712758
2019-01-20	20	5.845881
2019-01-21	21	10.239550
2019-01-22	22	6.556419
2019-01-23	23	7.853102
2019-01-24	24	12.336835
2019-01-25	25	9.523131
2019-01-26	26	11.751103
2019-01-27	27	13.684411
2019-01-28	28	10.376944
2019-01-29	29	11.842477
2019-01-30	30	6.124585
...	...	...
2023-12-02	1797	11.534388
2023-12-03	1798	11.187836
2023-12-04	1799	11.849344
2023-12-05	1800	5.453348
2023-12-06	1801	12.046358
2023-12-07	1802	10.862678
2023-12-08	1803	7.630945
2023-12-09	1804	11.171662
2023-12-10	1805	11.687989
2023-12-11	1806	10.751279
2023-12-12	1807	13.292572
2023-12-13	1808	6.910781
2023-12-14	1809	9.623901
2023-12-15	1810	8.216282
2023-12-16	1811	10.968719
2023-12-17	1812	8.555892
2023-12-18	1813	9.957405
2023-12-19	1814	12.371743
2023-12-20	1815	9.112755
2023-12-21	1816	11.612744
2023-12-22	1817	5.346678

```
[4]: ggplot(datos, aes(dia_mes %% 365, 0.05*dia_mes + temperatura/2, height =
     ↪temperatura, fill = temperatura)) + geom_tile() + scale_y_continuous(limits
     ↪= c(-20, NA)) +
     scale_x_continuous(breaks = 30*0:11, minor_breaks = NULL, labels = month.abb)
     ↪+ coord_polar() + scale_fill_viridis_c() + theme_minimal()
```