The end of the year is a great time to summarize accomplishments of the team. This year in MI2DataLab we summarized good things that happend in the form of baubles on the christmas tree (yes, this is the only known exception for using 3D plots). Each color of a bauble represents a different kind of result (yellow for articles, red for the package's releases, blue for conferences, orange for blogs, and light blue for workshops and trainings).

Here is the decorated christmas tree and below I will describe how to make it from the scratch using rgl package for R.



Christmas Tree with our articles, workshops, software releases

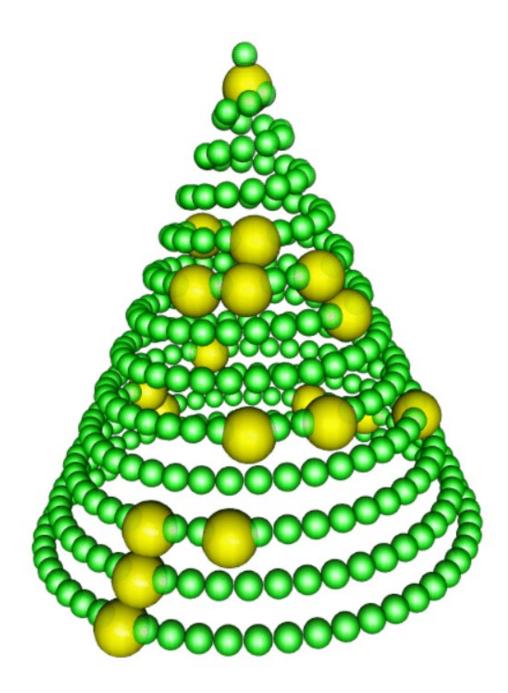
Let's start with the 366 small green baubles. We want the baubles to be spread out in a uniform way on the Christmas tree. It's easy with the help of an Archimedean spiral (https://en.wikipedia.org/wiki/Archimedean_spiral). It has an interesting property that the subsequent circuits are equally distant from each other. The spiral is easily described in polar coordinates. Because the size of the spiral grows with a square of the distance from the center, this should be taken into account when calculating the positions of the baubles. The third coordinate, that is the height on the tree will be calculated so that the baubles are uniformly distributed vertically.

```
library(rgl)
rgl.open()
rgl.bg(color = "white")
a <- 1.5</pre>
```

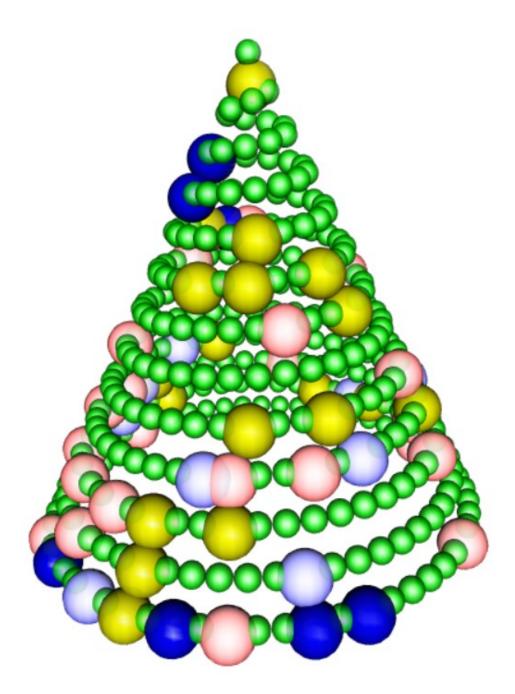


Okay, time to hang the baubles.

Let's assume that the dates on which we published the articles are written in the dates_papers vector. The following instructions add the article baubles to the Christmas tree.



Now it is time for the remaining baubles. Again, let's assume that the dates_software, dates_conferences, dates_blogs vectors contain dates of workshops, trainings, blog articles, etc.



And you can rotate the tree with

```
start <- proc.time()[3]
while ((i <- 36*(proc.time()[3] - start)) < 360) {
    rgl.viewpoint(i, 0);
}</pre>
```

It was an intensive year. Big thanks for UseR 2020, eRum 2020, Data Science Summit 2020, MLinPL 2020, ICML 2020, ECML PKDD, WhyR? 2020, SIGiR 2020 and Eastern European Machine Learning Summer School for hosting us. Have fun with our new software DALEX 2.0.1 for R, arenar, 0.2.0, triplot 1.3.0, modelStudio 2.1.0, fairmodels, 0.1.1, dalex 1.0 for Python, DALEXtra 1.3.2, treeshap 1.0.