A8 Rasterdaten

Jan-Philipp Kolb

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Manipulation von Rasterdaten

```
library(raster)
## Loading required package: sp
x <- raster()
х
## class : RasterLayer
## dimensions : 180, 360, 64800 (nrow, ncol, ncell)
## resolution : 1, 1 (x, y)
## extent
              : -180, 180, -90, 90 (xmin, xmax, ymin, ymax)
## coord. ref. : +proj=longlat +datum=WGS84 +ellps=WGS84 +tows
```

Andere Parameter wählen

```
## class : RasterLayer
## dimensions : 18, 36, 648 (nrow, ncol, ncell)
## resolution : 55.55556, 55.55556 (x, y)
## extent : -1000, 1000, -100, 900 (xmin, xmax, ymin, ymus, ym
```

 $x1 \leftarrow raster(ncol=36, nrow=18, xmn=-1000, xmx=1000, ymn=-100,$

Den Zellen Werte zuordnen

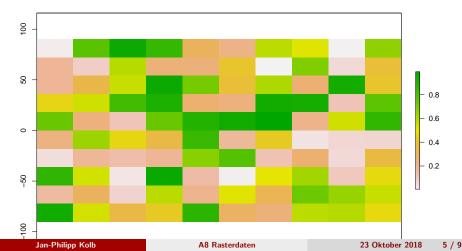
```
r <- raster(ncol=10, nrow=10)
ncell(r)
## [1] 100
hasValues(r)
## [1] FALSE
values(r) <- runif(ncell(r))</pre>
hasValues(r)
```

[1] TRUE

Das Ergebnis visualisieren

plot(r, main='Raster with 100 cells')

Raster with 100 cells



```
library(rnaturalearth)
```

```
## Warning: package 'rnaturalearth' was built under R version
usa <- ne_countries(country = "United States of America") # United States of America</pre>
```

```
## [1] "SpatialPolygonsDataFrame"
## attr(,"package")
## [1] "sp"
```

library(sf)

Linking to GEOS 3.6.1, GDAL 2.2.3, proj.4 4.9.3

Warning: plotting the first 9 out of 63 attributes; use max
plot all



Indikatoren vom Institut für ökologische Raumforschung (IÖR)



Links

• Neon - Intro to Raster Data in R