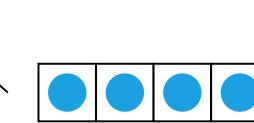
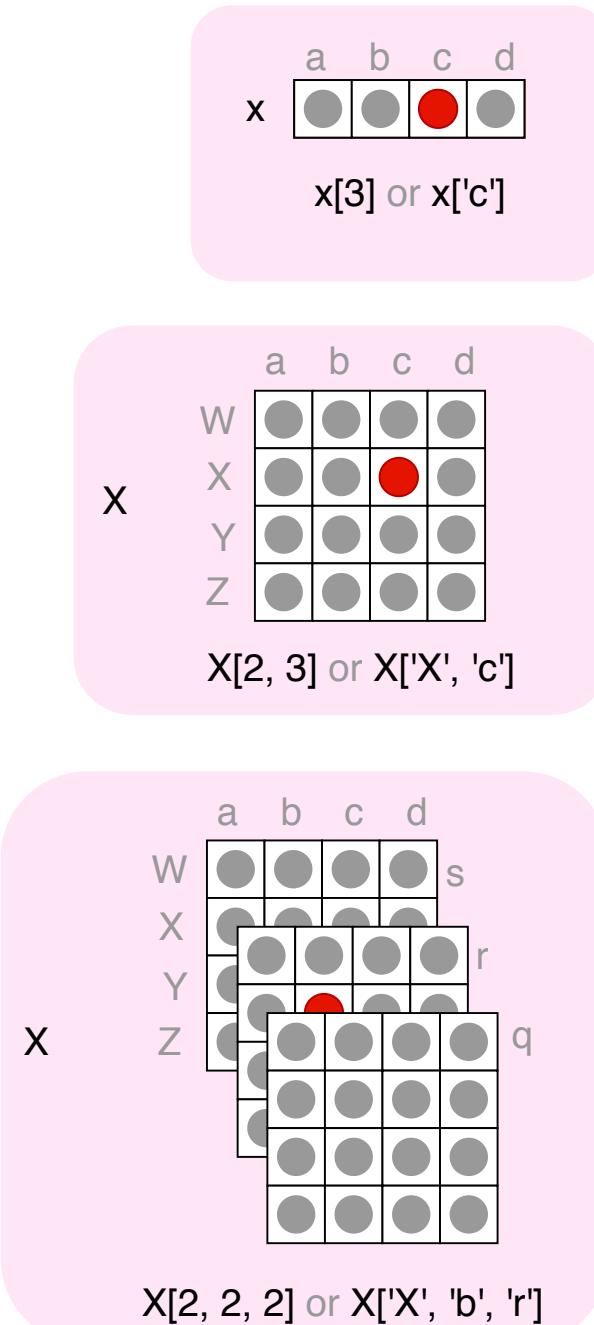


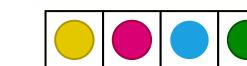
# Data Structures in R

Marcin Kierczak | marcin.kierczak@scilifelab.se | ver. 1.1



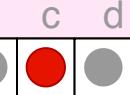
**vector**

- one dimension
- all elements of the same type



**list**

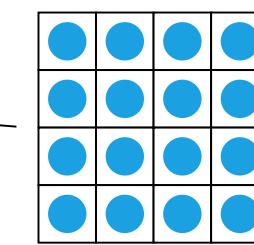
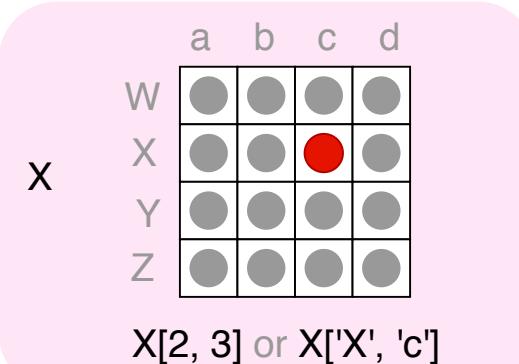
- one dimension
- all elements can be of different type



**x[[3]] or x[['c']] or x\$c**

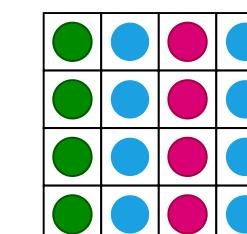
**S3 class object**

- a list with a particular name set as class attribute



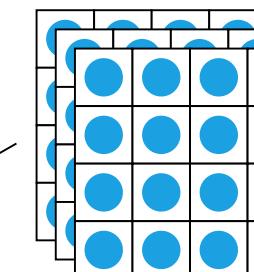
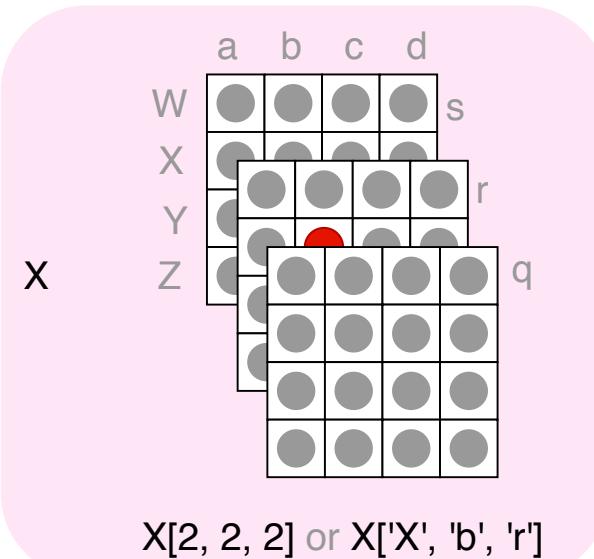
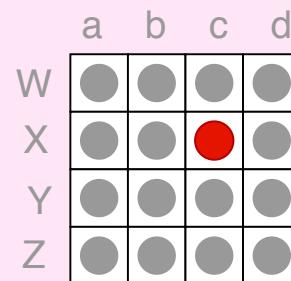
**matrix**

- two dimensions
- all elements of the same type



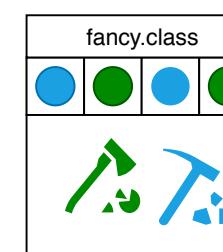
**data frame**

- two dimensions
- elements in columns have the same type, different columns can have different data types



**array**

- three and more dimensions
- all elements of the same type



**S4 class object**

- a "box" with data inside plus a collection of methods (=functions) you can apply to these data

