Web Data Collection with R JSON

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- ▶ JavaScript Object Notation
- data storage format used by most Web APIs
- ▶ uses, { } , : " \ to describe data
- is quite similar to a list in R
- transforming JSON into some R data type is quite easy [jsonlite]

```
json <-
١{
 "list" : {
   "name" : "Peter",
   "living in" : "Konstanz",
   "course": 108,
   "students" : [ {"name": "Paul", "age" : 20} ,
     {"name": "Mary", "age": 99}
```

```
library(jsonlite)
##
## Attaching package: 'jsonlite'
## Die folgenden Objekte sind maskiert von 'package:RJSONIO
##
##
       fromJSON, toJSON
list <- fromJSON(json)</pre>
```

```
list <- fromJSUN(json)
list

## $list
## $list$name</pre>
```

```
##
## $list$`living in`
## [1] "Konstanz"
##
```

[1] "Peter"

2

```
df <- as.data.frame(list)</pre>
df[,1:3]
##
     list.name list.living.in list.course
## 1
         Peter
                     Konstanz
                                       108
## 2
         Peter
                  Konstanz
                                       108
df[,-c(1:3)]
##
     list.students.name list.students.age
## 1
                   Paul
                                        20
```

99

Mary