## Using gnparser from R

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## "gnparser" is now written in Go!

We do not have a Scala expert in our group anymore, therefore we ported gnparser to Go. We strongly recommend to switch to new version and submit bugs/suggestions according to its CONTRIBUTING doc.

## Go from R

gnparser.go

```
import (
    "C"

    "gitlab.com/gogna/gnparser"
)
import "unsafe"

var gnp = gnparser.NewGNparser()

//export Parse
func Parse(x string) uintptr {
    gnp.Parse(x)
    res, _ := gnp.ToPrettyJSON()
    return uintptr(unsafe.Pointer(&res[0]))
}
func main() {
}
```

rgo.c

```
#include <R.h>
#include <Rinternals.h>

extern char* Parse();

SEXP gognparse(SEXP x) {
   return Rf_mkString(Parse(STRING_PTR(x)));
}
```

Now you can use "gnparser" from R like below.

```
$ go get -u "gitlab.com/gogna/gnparser"
$ go build -o libgnparser.so -buildmode=c-shared ./gnparser.go
$ R CMD SHLIB -L. -lgnparser rgo.c
$ Rscript -e 'dyn.load("rgo.so"); .Call("gognparse", "Carex scirpoidea var. convoluta Kükenthal")'
```