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Get the code for the C API from http://geolite.maxmind.com/download/geoip/api/c/ Get the binary form of the data http://www.maxmind.com/app/geolitecity

```
library(RCIndex)
col = genFunctionCollector()
parseTU("/usr/local/include/GeoIP.h", col$update)
funcs = col$funcs()
grep("^GeoIP", names(funcs), value = TRUE)
funcs = funcs[ grep("^GeoIP", names(funcs), value = TRUE) ]
```

The first thing we need to use any of the primary routines is a pointer to a GeoIP object. This is the first argument to most routines. We create this with the function GeoIP_new. This takes an integer value which is a combination of flags that control how this is created. These flags are found in the GeoIPOptions enumeration. Let's get those

```
col = genEnumCollector()
parseTU("/usr/local/include/GeoIP.h", col$update)
col$enums()
```

Web Service Queries

http://ipinfodb.com provides several REST-based Web services. The results can be returned as XML or JSON. We can get the country name for an IP address; get the city and longitude and latitude; process multiple IP addresses.