Load RDFLib 4.2.2

```
In [1]: from rdflib import Graph
```

```
In [2]: !pip show rdflib
```

```
Name: rdflib
Version: 4.2.2
Summary: RDFLib is a Python library for working with RDF, a simple yet
powerful language for representing information.
Home-page: https://github.com/RDFLib/rdflib
Author: RDFLib Team
Author-email: rdflib-dev@google.com
License: https://raw.github.com/RDFLib/rdflib/master/LICENSE
Location: /Users/wdduncan/opt/anaconda3/lib/python3.7/site-packages
Requires: isodate, pyparsing
Required-by: -iolinkml, SPARQLWrapper, sparql-slurper, rdflib-jsonld, P
yShExC, PyShEx, CFGraph, biolinkml
```

Parse RDF/XML version of GO

go.owl is saved locally

takes ~2 min 11 sec on my machine

```
In [3]: graph1 = Graph()
```

```
In [4]: %time graph1.parse("go.owl")
```

```
CPU times: user 2min 7s, sys: 760 ms, total: 2min 8s
Wall time: 2min 8s
```

```
Out[4]: <Graph identifier=N4948f6dd86bd40cd9915d72ff13cc619 (<class 'rdflib.gra
ph.Graph'>)>
```

Parse turtle version of GO

go.ttl is saved locally

takes ~1 min 49 sec on my machine

```
In [5]: graph2 = Graph()
```

```
In [6]:  %time graph2.parse("go.ttl", format="turtle")
```

```
CPU times: user 1min 44s, sys: 309 ms, total: 1min 44s
Wall time: 1min 44s
```

Out[6]: <Graph identifier=Nd86c04b63c4d448e84529c2621288c3d (<class 'rdflib.gra
         ph.Graph'>)>

Save version of GO as N-triples

```
In [7]:  %time graph2.serialize("go.nt", format="nt")
```

```
CPU times: user 9.09 s, sys: 345 ms, total: 9.43 s
Wall time: 9.46 s
```

Parse N-triples version of GO

go.nt is saved locally

takes ~1 min 9 sec on my machine

```
In [8]:  graph3 = Graph()
```

```
In [9]:  %time graph3.parse("go.nt", format="nt")
```

```
CPU times: user 1min 7s, sys: 674 ms, total: 1min 7s
Wall time: 1min 7s
```

Out[9]: <Graph identifier=Ncd8ed96623c24fc4bdc8d38d99f463b1 (<class 'rdflib.gra
         ph.Graph'>)>

Parse RDF/XML version of GO-Plus

go-plus.owl is saved locally

takes ~3 min 18 sec on my machine

```
In [10]:  graph4 = Graph()
```

```
In [11]:  %time graph4.parse("go-plus.owl")
```

```
CPU times: user 3min 17s, sys: 1.29 s, total: 3min 18s
Wall time: 3min 18s
```

Out[11]: <Graph identifier=Ne06f0e5a2082444d970aaa3be2f07083 (<class 'rdflib.gra
          ph.Graph'>)>

Save version of GO-Plus as N-triples

```
In [12]: %time graph4.serialize("go-plus.nt", format="nt")
```

```
CPU times: user 14.4 s, sys: 539 ms, total: 14.9 s
Wall time: 14.9 s
```

Parse N-triples version of GO-Plus

go-plus.nt is saved locally

takes ~1 min 42 sec on my machine

```
In [13]: graph5 = Graph()
```

```
In [14]: %time graph5.parse("go-plus.nt", format="nt")
```

```
CPU times: user 1min 41s, sys: 1.2 s, total: 1min 42s
Wall time: 1min 42s
```

```
Out[14]: <Graph identifier=Nfa995b1c9fff4f0698bf49478b781cad (<class 'rdflib.gra
         ph.Graph'>)>
```