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In [12]: from SPARQLWrapper import SPARQLWrapper, JSON
import cPickle as pickle
```

```
In [3]: URL_ENDPOINT="http://localhost:82/"
URL_ENDPOINT_=URL_ENDPOINT+"participabr/query"
PREFIX="""PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX ops: <http://purl.org/socialparticipation/ops#>
PREFIX opa: <http://purl.org/socialparticipation/opa#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX dc: <http://purl.org/dc/terms/>
PREFIX tsioc: <http://rdfs.org/sioc/types#>
PREFIX sioc: <http://rdfs.org/sioc/ns#>
PREFIX schema: <http://schema.org/>"""
```

```
In [19]: q="""SELECT ?participant
        WHERE {
            <http://participa.br/> dc:contributor ?participant.
        }"""
sparql=SPARQLWrapper(URL_ENDPOINT_)
sparql.setQuery(PREFIX+q)
sparql.setReturnFormat(JSON)
results = sparql.query().convert()
```

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In [20]: results_=results["results"]["bindings"]
participantes=[i["participant"]["value"] for i in results_]
```

```
In [21]: len(participantes)
```

```
Out[21]: 3825
```

```
In [22]: g=pickle.load( open( "pickledir/g.p", "rb" ) )
d=pickle.load( open( "pickledir/d.p", "rb" ) )
bows=pickle.load( open( "pickledir/bows.p", "rb" ) )
```

```
In [23]: len(bows)
```

```
Out[23]: 3825
```

```
In [24]: com_rastro=[part for part in participantes if
                    (part in g.nodes()) or (part in d.nodes()) or (sum(bows[part][1])>0)]
```

```
In [25]: len(com_rastro)
```

```
Out[25]: 872
```

```
In [32]: print("%.2f por cento dos participantes são passíveis de serem recomendados e de rec
          ((len(com_rastro)/float(len(participantes)))*100,))
```

22.80 por cento dos participantes são passíveis de serem recomendados e de receberem recomendações personalizadas

```
In [ ]:
```

