#### In [1]:

#### In [25]:

```
','cy':'Galés','wo':'Wolof','fy':'Oeste de Frisia','xh':'Xhosa','yi':'Yiddish','yo':'Yoruba

◆
```

# Mapa de los Tweets identificandos por el Idioma (España)

Se realiza un mapa de España que permite visualizar dónde se tuitea y en qué idioma se tuitea

#### In [26]:

```
#-----
#-----
#Tuitear con Twitter Place
def getInfoGeneral(data):
   result=[]
   if data["place"] != None and data["place"]["country_code"] == "ES" and data["place"]["b
      state = str(data["place"]["full_name"]).lower().split(", ")
      if len(state) > 1:
         if data["lang"] != None:
             lang = data["lang"]
             if languageName.get(lang)!= None:
                lang=languageName.get(lang)
             location=data["place"]["bounding_box"]["coordinates"][0][0]
             result = {'City': state[0], 'Lang':lang, 'Location': [location[1], location[0]
   return result
#Tweet con ubicación exacta
def getInfoUser(data):
   result=[]
   if data["place"] != None and data["place"]["country_code"] == "ES":
      state = str(data["place"]["full_name"]).lower().split(", ")
      if len(state) > 1:
         if data["lang"] != None and data["geo"] != None:
             lang = data["lang"]
             if languageName.get(lang)!= None:
                lang=languageName.get(lang)
             result = {'City': state[0],'Lang':lang,'Location': data["geo"]["coordinates
   return result
#Tweet con ubicación exacta
def getInfoGeneralText(data):
   result=[]
   if data["place"] != None and data["place"]["country_code"] == "ES" and data["place"]["b
      state = str(data["place"]["full_name"]).lower().split(", ")
      if len(state) > 1:
          if "text" in data:
             #print(len(data["text"].rstrip()))
             text = data["text"][0:50]
             #print(str(text))
             lang = TextBlob(text)
             if len(lang)>15:
                try:
                   lang.detect_language()
                   #print(lang)
                   location=data["place"]["bounding_box"]["coordinates"][0][0]
                   result = {'City': state[0],'Lang':lang,'Location': [location[1],loc
                   result=["error"]
   return result
#Tweet con ubicación exacta
def getInfoUserText(data):
```

```
result=[]
   if data["place"] != None and data["place"]["country_code"] == "ES":
      state = str(data["place"]["full_name"]).lower().split(", ")
      if len(state) > 1:
         if data["geo"] != None:
            lang = detect([str(data["text"].rstrip())])
            result = {'City': state[0],'Lang':lang,'Location': data["geo"]["coordinates
   return result
def insertData(data):
   result=[]
   state="
   lang=""
   langText=""
   if data["place"] != None and data["place"]["country_code"] == "ES":
      state = str(data["place"]["full_name"]).lower().split(", ")[0]
      if data["lang"] != None:
         lang = data["lang"]
      if len(state) > 1:
         #Tweet con ubicación exacta
         if data["geo"] != None:
            if len(lang) > 0 :
                if languageName.get(lang)!= None:
                   lang=languageName.get(lang)
                   dataTweetsExactasES = {'City': state, 'Lang':lang, 'Location': data["
                   arrayTweetsExactasES.append(dataTweetsExactasES)
         #-----
         if data["place"]["bounding box"]["coordinates"] != None:
            #state = str(data["place"]["full_name"]).lower().split(", ")
            if len(lang) > 0:
                if languageName.get(lang)!= None:
                   lang=languageName.get(lang)
                   location = data["place"]["bounding_box"]["coordinates"][0][0]
                   dataTweetsGeneralES = {'City': state, 'Lang':lang, 'Location': [locat
                   arrayTweetsGeneralES.append(dataTweetsGeneralES)
            #-----
            if "text" in data:
                text = data["text"][0:50]
                lang = TextBlob(text)
                if len(lang)>15:
                   try:
                      lang.detect_language()
                      location=data["place"]["bounding_box"]["coordinates"][0][0]
                      dataTweetsGeneralESText = {'City': state[0],'Lang':lang,'Locati
                      arrayTweetsGeneralESText.append(dataTweetsGeneralESText)
                      result=["error"]
         if data["geo"] != None:
            if len(langText) >0:
                lang = detect([str(data["text"].rstrip())])
                dataTweetsExactasESText = {'City': state[0], 'Lang':lang, 'Location': dat
                dataTweetsExactasESText.append(dataTweetsExactasESText)
```

```
return result
arrayTweetsGeneralES = []
arrayTweetsExactasES = []
arrayTweetsGeneralESText = []
arrayTweetsExactasESText = []
def readTweetsES():
   #file = "output.txt"
   file = "output.txt"
   countText=0
   with open(file, "r") as ins:
       for line in ins:
           if (len(line)> 1):
              data = json.loads(line)
              if "created_at" in data:
                  dataTweetsGeneralES = getInfoGeneral(data)
                  dataTweetsExactasES = getInfoUser(data)
                  #Twitter Place >>>>>
                  if len(dataTweetsGeneralES)>0:
                      arrayTweetsGeneralES.append(dataTweetsGeneralES)
                  #Tweet con ubicación exacta >>>>>
                  if len(dataTweetsExactasES)>0:
                      arrayTweetsExactasES.append(dataTweetsExactasES)
                  #Analisis text full- Analizar texto de tuis idioma
                  #insertData(data)
```

#### In [28]:

```
#Cargar datos readTweetsES()
```

## **Lugar del Tweet**

Tweet etiquetado geográficamente con el lugar de Twitter

#### In [29]:

```
#len(arrayTweetsGeneralES)
#print(arrayTweetsGeneralES)
m = folium.Map([37, -3], tiles="cartodbpositron", zoom_start=5.49, world_copy_jump=True, no
for line in arrayTweetsGeneralES:
    folium.Marker(
    location=line['Location'],
    popup="Idioma: "+str(line['Lang']),
    ).add_to(m)
m
```

# Out[29]: H - PORTU SPAIN Lisbon\*

# Tweet ubicación exacta

```
In [30]:
```

```
m = folium.Map([37, -3], tiles="cartodbpositron", zoom_start=5.49, world_copy_jump=True, no
for line in arrayTweetsExactasES:
    folium.Marker(
    location=line['Location'],
    popup="Idioma: "+str(line['Lang']),
    ).add_to(m)
m
#print(dfEs)
#m = folium.Map(world_copy_jump=True, no_wrap=False)
```

#### Out[30]:



#### In [19]:

# **Lugar del Tweet - Texto**

Tweet etiquetado geográficamente con el lugar de Twitter

```
In [31]:
```

```
m = folium.Map([37, -3], tiles="cartodbpositron", zoom_start=5.49, world_copy_jump=True, no
for line in arrayTweetsGeneralESText:
    folium.Marker(
    location=line['Location'],
    popup="Idioma: "+str(line['Lang']),
    ).add_to(m)
m
```

#### Out[31]:



#### In [ ]:

### Tweet ubicación exacta

#### In [32]:

```
m = folium.Map([37, -3], tiles="cartodbpositron", zoom_start=5.49, world_copy_jump=True, no
for line in arrayTweetsExactasESText:
    folium.Marker(
    location=line['Location'],
    popup="Idioma: "+str(line['Lang']),
    ).add_to(m)
m
```

#### Out[32]:



#### In [ ]: