Begin With Importing Necessary Packages

```
import requests
from bs4 import BeautifulSoup

In [9]:

# go to the billboard 2019 hit pop songs page - copy the URL into the code

url = "https://www.jetpunk.com/user-quizzes/139806/lonely-planets-top-ten-countries-by-ye
ar"
response = requests.get(url)

In [10]:

#Let's be sure we got back a good response
page = requests.get(url)
print(page)

<Response [200]>

In [11]:

page_content = BeautifulSoup(response.text, 'html.parser') # creates a parse tree that ca
n be used to extract data from HTML
```

List of Website Responses

https://developer.mozilla.org/en-US/docs/Web/HTTP/Status

Let's See What is In Our HTML Document

```
In [12]:
```

In [8]:

```
page_content.text
block_holders = page_content.select("table td.block-holder") # Use CSS Selectors in here
```

In [13]:

```
final = []

for block in block_holders: # Iterate through each block holder
    rows = block.select("tr")

year = rows.pop(0) # first year in block
year = year.text.strip()

for i in range(10): # Ten values in a row
    rowValues = rowValues.select("td")
    number = values[0].text.strip()
    country = values[1].text.strip()

    final.append([year, number, country])

rows.pop(0) # get rid of the empty row between two tables

# repeat the same process
year = rows.pop(0)
year = year.text.strip()
```

```
for i in range(10):
    rowValues = rows.pop(0)
    values = rowValues.select("td")
    number = values[0].text.strip()
    country = values[1].text.strip()

    final.append([year, number, country])
```

[['2019', '1', 'Sri Lanka'], ['2019', '2', 'Germany'], ['2019', '3', 'Zimbabwe'], ['2019' , '4', 'Panama'], ['2019', '5', 'Kyrgyzstan'], ['2019', '6', 'Jordan'], ['2019', '7', 'In donesia'], ['2019', '8', 'Belarus'], ['2019', '9', 'São Tomé'], ['2019', '10', 'Belize'], ['2018', '1', 'Chile'], ['2018', '2', 'South Korea'], ['2018', '3', 'Portugal'], ['2018', '4', 'Djibouti'], ['2018', '5', 'New Zealand'], ['2018', '6', 'Malta'], ['2018', '7', 'Ge orgia'], ['2018', '8', 'Mauritius'], ['2018', '9', 'China'], ['2018', '10', 'South Africa '], ['2017', '1', 'Canada'], ['2017', '2', 'Colombia'], ['2017', '3', 'Finland'], ['2017' , '4', 'Dominica'], ['2017', '5', 'Nepal'], ['2017', '6', 'Bermuda'], ['2017', '7', 'Mong olia'], ['2017', '8', 'Oman'], ['2017', '9', 'Myanmar'], ['2017', '10', 'Ethiopia'], ['20 16', '1', 'Botswana'], ['2016', '2', 'Japan'], ['2016', '3', 'United States'], ['2016', ' 4', 'Palau'], ['2016', '5', 'Latvia'], ['2016', '6', 'Australia'], ['2016', '7', 'Poland'], ['2016', '8', 'Uruguay'], ['2016', '9', 'Greenland'], ['2016', '10', 'Fiji'], ['2015', '1', 'Singapore'], ['2015', '2', 'Namibia'], ['2015', '3', 'Lithuania'], ['2015', '4', 'N icaragua'], ['2015', '5', 'Ireland'], ['2015', '6', 'R. Congo'], ['2015', '7', 'Serbia'], ['2015', '8', 'Philippines'], ['2015', '9', 'St. Lucia'], ['2015', '10', 'Morocco'], ['2014', '1', 'Brazil'], ['2014', '2', 'Antarctica'], ['2014', '3', 'Scotland'], ['2014', '4'] , 'Sweden'], ['2014', '5', 'Malawi'], ['2014', '6', 'Mexico'], ['2014', '7', 'Seychelles'], ['2014', '8', 'Belgium'], ['2014', '9', 'Macedonia'], ['2014', '10', 'Malaysia'], ['20 13', '1', 'Sri Lanka'], ['2013', '2', 'Montenegro'], ['2013', '3', 'South Korea'], ['2013', '4', 'Ecuador'], ['2013', '5', 'Slovakia'], ['2013', '6', 'Solomon Islands'], ['2013', '17', 'Isolomon'], ['2013', '18', 'Isolom '7', 'Iceland'], ['2013', '8', 'Turkey'], ['2013', '9', 'Dominican Rep.'], ['2013', '10', 'Madagascar'], ['2012', '1', 'Uganda'], ['2012', '2', 'Myanmar'], ['2012', '3', 'Ukraine'], ['2012', '4', 'Jordan'], ['2012', '5', 'Denmark'], ['2012', '6', 'Bhutan'], ['2012', '7', 'Cuba'], ['2012', '8', 'New Caledonia'], ['2012', '9', 'Taiwan'], ['2012', '10', 'Switzerland'], ['2011', '1', 'Albania'], ['2011', '2', 'Brazil'], ['2011', '3', 'Cape Verde']], ['2011', '4', 'Panama'], ['2011', '5', 'Bulgaria'], ['2011', '6', 'Vanuatu'], ['2011', '7', 'Italy'], ['2011', '8', 'Tanzania'], ['2011', '9', 'Japan'], ['2011', '10', 'none'], ['2010', '1', 'El Salvador'], ['2010', '2', 'Germany'], ['2010', '3', 'Greece'], ['2010', '4', 'Malaysia'], ['2010', '5', 'Morocco'], ['2010', '6', 'Nepal'], ['2010', '7', 'New Ze aland'], ['2010', '8', 'Portugal'], ['2010', '9', 'Suriname'], ['2010', '10', 'United Sta tes']]

In [14]:

```
import csv
with open('countries.csv', 'w', newline='') as file:
    writer = csv.writer(file)
    writer.writerow(["year", "number", "country"])

for values in final:
    writer.writerow(values)
```