# **CSS Intro Labs**

### **Data Visualization**

This lab shows you how to create a basic visualization for data. We have a dictionary that shows the GDP for countries. We then create an HTML document that shows the size of GDP by using circles.

#### lab-visual.py

## **Dynamic Report**

This project shows you how to dynamically create an HTML report where if a record has a certain value that line will be highlighted.

We read from a CSV file as our data store.

Note: Files should be in your user root directory.

```
with open('student.csv', 'r') as file:
    file = file.readlines()

with open('report.html', 'w') as report:
    report.write('')

for line in file[1:]:
    record = line.split(',')

    if record[4].strip() == 'Pollen':
        color = 'yellow'
    else:
        color = ''
    report.write(f'')

    for value in record:
        report.write(f'{value}')

    report.write('')

report.write('')
```

### **Dynamic Web Site**

This project shows you how to dynamically build a web site from variable values with CSS.

Note: HTML document will be written to your user root directory

```
header = "Hello World!!!"
column1 = "This is a really cool site!"
column2 = "We hope you think this site is really cool too!"
column3 = "Please tell us how cool you think we are!"
footer = "You can contact us at bob@reallycoolsite.com"
stvle = '''
            <style>
                div {
                    display: flex;
                     justify-content: center;
                div.header {
                     background-color: orange;
                    font-size: 100px;
                    text-align: center;
                    display:block;
                div.column {
                    height: auto;
                    width: 200px;
                    display: inline-block;
                }
                div.footer {
                    background-color: orange;
                    font-size: 25px;
                    text-align: center;
                    display:block;
            </style>
with open('site.html', 'w') as file:
    file.write(f'''
                    {style}
                    <div class="header">{header}</div>
                    < div>
                         <div class="column">{column1}</div>
```