

Lab 6
CPS530
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ASP

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Document</title>
  <style>
    <!-- This returns the QueryString and sets the body color -->
    body{
      background-color: <%=Request.QueryString("Colour")%>;
      text-align: center;
      font-size: 16px;
    }
  </style>
</head>
<body>
<h1>Part 1</h1>
<%
'cookie variable declaration'
dim timeCookie
'response cookies sets the cookie expiration'
response.cookies("NumVisits").Expires=date+365
'request gets the numvisits cookie if it exists'
timeCookie=request.cookies("NumVisits")
'if the timeCookie has null variable then it goes into this case'
if timeCookie="" then
  'response sets the cookie visit time'
  response.cookies("NumVisits")=time()
  'this writes the greeting message for the first time visitor'
  response.write("First time visit")
else
  'otherwise it sets the new cookie to the current time and returns the previous cookie time'
  response.cookies("NumVisits")=time()
  response.write("Last visit was = " & timeCookie & "!")
end if
```

```
%>
</body>
</html>
```

Ruby

```
#!/usr/bin/ruby -w

require 'cgi'
cgi = CGI.new

print "Content-type: text/html\n\n"

#Used the cgi to retrieve the variables from the form and assigned to non-constant variables
city = cgi['Citname']
province = cgi['Pname']
country = cgi['Conname']
population = cgi['Pop']
imglink = cgi['Pict']

puts "<html><head>"
puts "<title>Lab 6</title>"
puts "</head>"

#Use the image url to create the background for the website alongside inline css style
puts "<body style = \"text-align:center;background-size: cover;background-position: center;height:100%;background-
image: url('"+imglink+"');\">"

#Use capitalize() to make the first character upper case
puts "<p style=\"color: blue; font-size: 40px; white-space: nowrap;\"> "+city.capitalize()+",
"+country.capitalize()+"</p>"

puts "<div style=\"height: auto;width: 200px;margin: 10px auto;background: rgba(76, 175, 80, 0.5);padding: 1px; \">"
puts "<p style=\"color: red; font-size: 14px;\"> "+ "Province = "+province.capitalize()+"</p>"
puts "<p style=\"color: red; font-size: 14px;\"> "+ "Population = "+population+"</p>"
puts "</div>"
puts "</body>"
puts "</html>"
```

Python

```
#!/usr/bin/python
print("Content-type: text/html\n\n")
import cgi

form=cgi.FieldStorage()
#Retrieves the form elements and makes them upper case
city=form.getvalue('Citname').upper()
province=form.getvalue('Pname').upper()
country=form.getvalue('Conname').upper()
population=form.getvalue('Pop')
imglink=form.getvalue('Pict')

print("<html><meta name='viewport' content='width=device-width, initial-scale=1'><head></head>")
print("<body style='margin-left:auto;margin-right:auto;text-align:center;border:10px solid blue;width:80%;'>")
print("<div style='background-size: cover; height: 100%; width:100%; background-position: center;background-repeat: no-repeat;background-image: url('"+imglink+"');'>") #prints the image
print('<header style="width: fit-content;font-size:3em;color:#cc0000;display: inline-flex;background-color:powderblue;background-size:80%;">'+city+" "+country+'</header>') #printing title
print("<br>")
print('<p>'+ "Province = "+province+'</p>')
print('<p>'+ "Population = "+population+'</p>')
print("</div>")
print("</body></html>")
```

Conclusion

The ASP was the hardest to do since I never worked with it before. Ruby was okay but python was by far the simplest and quickest to get a grasp on initially. IIS server setup took a while to get working which is the main issue with ASP and most tutorials are about ASP.net. I also could not properly open up my ports on my router to host the ASP website and only managed to get it working locally. I ended up resorting to using somee to host the website. Ruby was also not bad and simpler to work with the front end components than python. Overall the longest took ASP with the server problems, then Ruby and the fastest was Python. The most enjoyable was Ruby since writing print statements gets really messy.