

# Lab: Introduction to Image file types and HTML

GEOG 319/658

Exercise #1

FALL 2014

## Introduction to Image file types and HTML

**Due: Wednesday, September 10**

a) Use the Web to search for four maps that illustrate various types of graphic files: GIF, JPG (or JPEG), PNG, SVG, and PDF.

b) Display these four maps in a single-page map gallery as described on pp. 62-66 of Peterson's book. Be sure that your single-page map gallery makes use of the following HTML tags. You may wish to use additional tags if you deem them appropriate.

```
<!DOCTYPE html> <!-- specifies html 5, which is the most current html -->
```

```
<html> <!-- All html files begin with html and end with /html -->
</html>
```

```
<h1> <!-- headers; use at least three levels -->
</h1>
```

```
<hr /> <!-- horizontal ruled line -->
```

```

  <!-- used for the GIF, JPG (or JPEG), or PNG file types -->
  <!-- URL will be a URL address for a map.
    Remember that you will need to consider how many pixels you want to display.
    See p. 64 of Peterson for the formula. -->
```

```
<embed src=" URL " width="n umber pixels" height="n umber pixels" >
  <!-- used for the SVG and PDF file types -->
```

```
<p> <!-- paragraph -->
</p>
```

Use Notepad++ or another appropriate text editor to create the HTML file. The directions for accessing Notepad++ in room 310 can be found in the handout "Using the Computers in Room 310."

Use comments throughout the HTML file to explain what various statements do.

At the beginning of the HTML file include documentation that provides your name, the course, and the purpose of the program.

To execute the HTML file, double-click on it or drag it on top of a desired web browser.

Once you have the file executing effectively (and documented), place it and any associated files within the public\_html directory of the web hosting service. See the “Using the Computers in Room 310” handout to determine the URL associated with your application. Post this URL to the following [Google Worksheet](#) .  
[Instructor needs to create their own link]

The URL will allow us and other students to execute your program. In addition, please hand in a hard copy of your program.

c) Create a second program that will allow you to display at least two of these maps in a multipage gallery as described by Peterson on pp. 67-70. Assuming that you choose to display two of the maps in this fashion, you will create three HTML files, one for each of the two maps and one for the title page. The following is the basic structure for the title page file:

```
<!DOCTYPE html>
<html>

    <!-- header information will go here -->

    <!-- specify the names of html files associated with each map -->
    <a
href=r
oot.
html>
<b>
Title
Page
</b>
</a> |
    <a href=map1.html> Map1 </a> |
    <a
href=
map2.
html>
Map2
</a> |

</html>
```

HTML files associated with each map will have the following sort of structure:

```
<!DOCTYPE html>
<html>

    <h2>
Title
for a
map <
/h2>
```

<!--  
creat  
e a  
table  
consi  
sting  
of  
one  
row  
and  
two  
cells  
to  
hold

the map and a description of the map, respectively -->

<table  
width  
=  
1000"  
height  
=  
597"  
border  
="1">

<tr>  
<!--  
specify  
a row  
in the  
table;  
note  
that  
each

data  
cell is  
specifi  
ed by  
td  
(table  
data)  
-->

<td  
width  
=  
734"  
height  
=  
393">

<img src= URL width="400" height="248">

```

        </td>

        <td
        width=
        "250"
        >Descr
        iption
        will
        be
        display
        ed
        here<
        /td>
    </tr>
<
/table>

<!--
align
s the
subse
quent
info
-->
<styl
e>
    <p
    style="
    text-
    align:
    center"
    >
<
/style>

    <!-- specify the names of html files associated with the title page and each map -->
<a
href=r
oute.
html>
Title
Page
</a> |
    <a href=map1.html> <b> Map1 </b></a> |
<a
href=
map2.
html>
Map2
</a> |

```

</html>

Your description should focus on the spatial pattern apparent on the map.

As in part (b), be sure to liberally comment your html files. Also use indentation and blank lines to make your code more readable.

When your program is fully operational, enter the URL into the Google Worksheet as you did in b above. Again, you will also hand in a hard copy of the resulting program (there will be at least three files).