

# Introduction to SVG

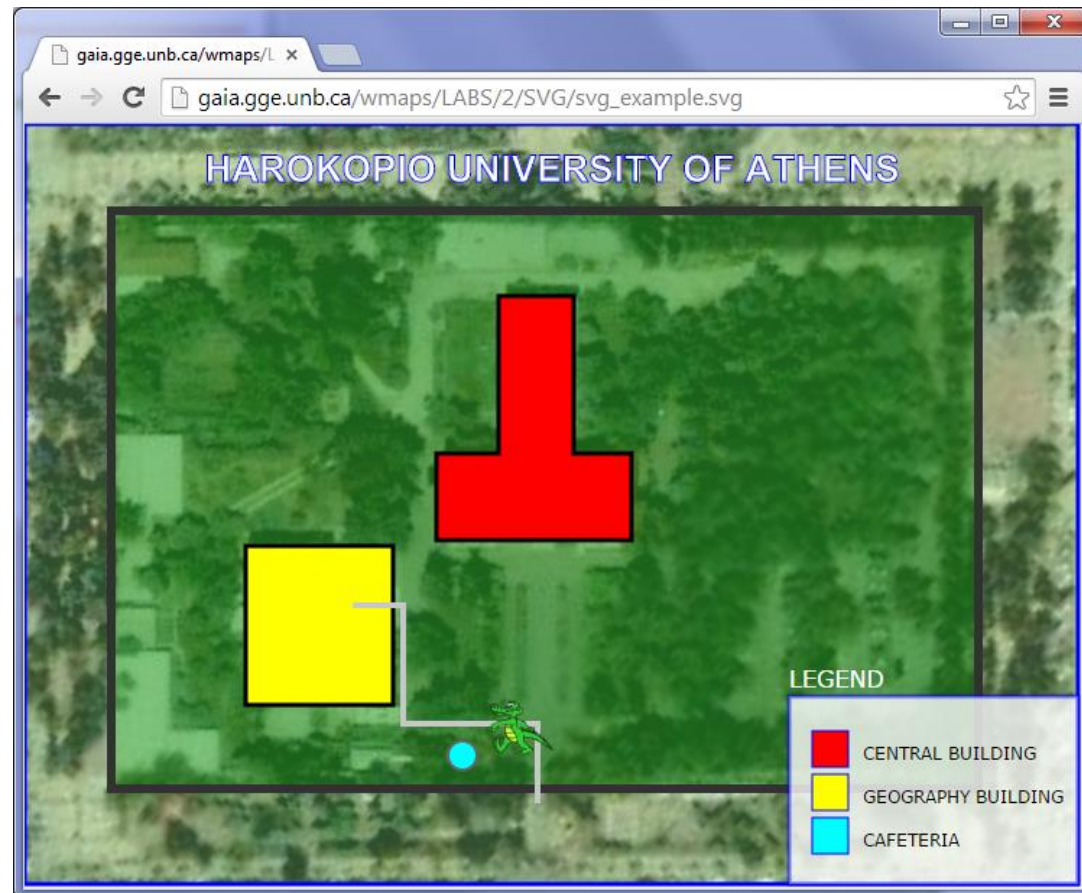
**Emmanuel Stefanakis**

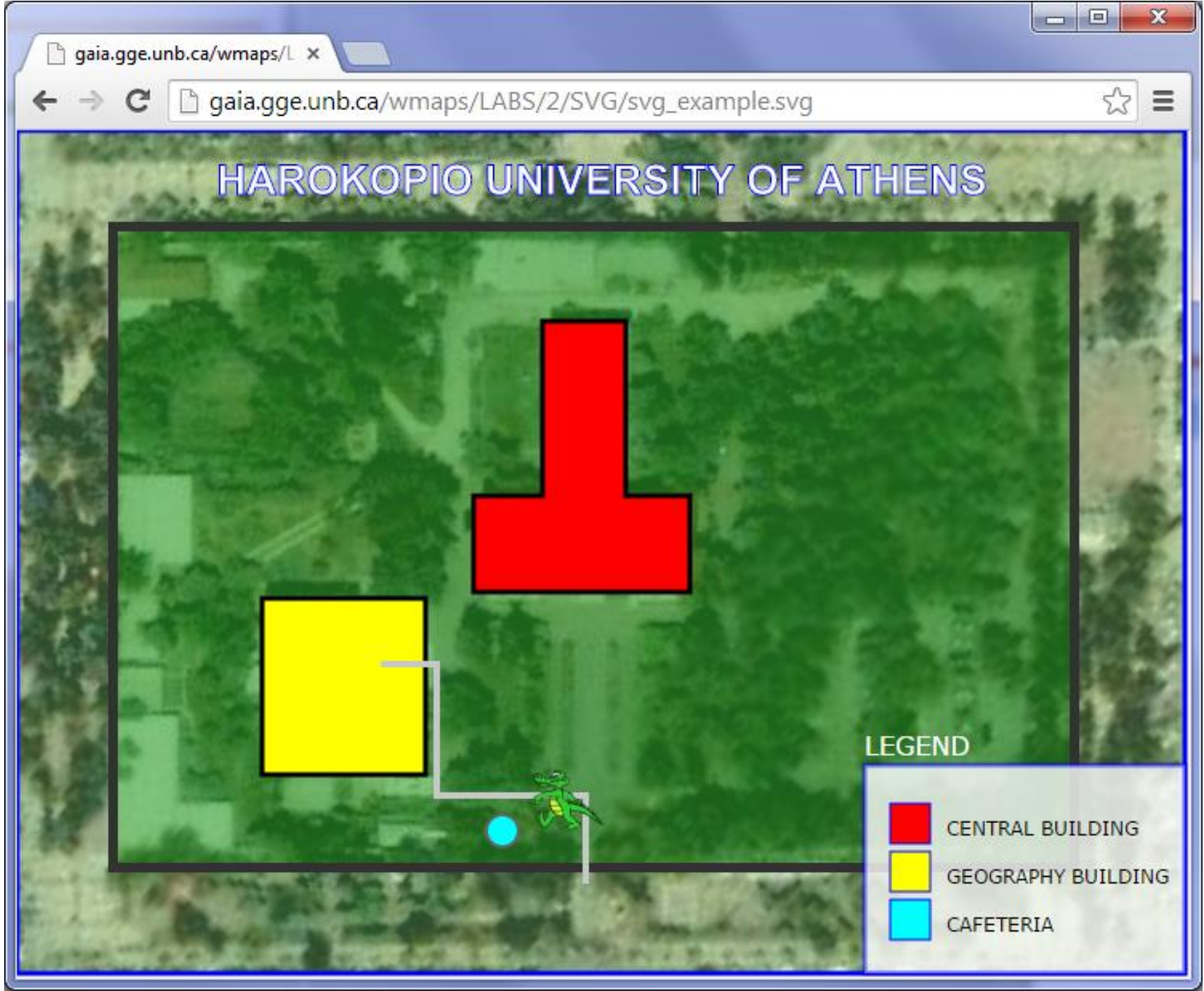
*estef@unb.ca*

# Example

[http://gaia.gge.unb.ca:8080/gge5403/labs/2/SVG/svg\\_example.svg](http://gaia.gge.unb.ca:8080/gge5403/labs/2/SVG/svg_example.svg)

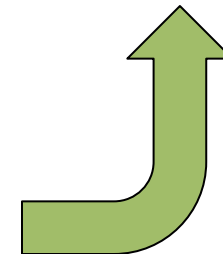
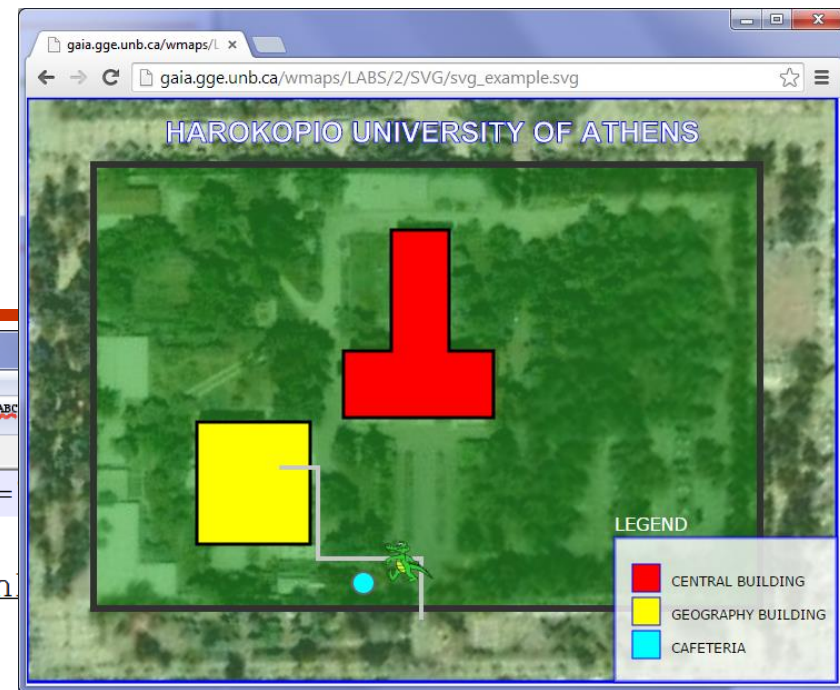
A VPN connection to  
UNB is required.





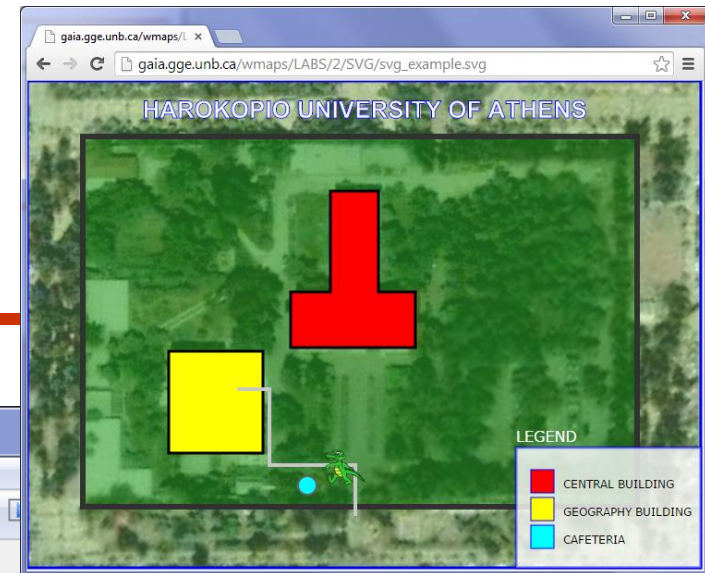
# Example

```
C:\Users\estef\Documents\GGE_ONLINE\Week 2\SVG_KML\SVG\svg_example.svg - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
svg_example.svg
1 <svg width="100%" height="100%" version=
2 xmlns="http://www.w3.org/2000/svg"
3 xmlns:xlink="http://www.w3.org/1999/xlin
4
5 <!--Insert an image as background-->
6 <image width="729px" height="526px"
7       xlink:href="photos/hua_photo.jpg">
8 </image>
9
10 <!--Define the canvas-->
11 <rect x="0" y="0" width="729" height="526"
12 style="fill:rgb(150,255,150);stroke:blue;stroke-
13 width:3;
14 fill-opacity:0.3;stroke-opacity:1"/>
15
16 <!--Draw the fence-->
17 <rect x="60" y="60" width="600" height="400"
18 style="fill:green;fill-opacity:0.4;stroke:rgb(50
19 ,50,50);stroke-width:6;"/>
```





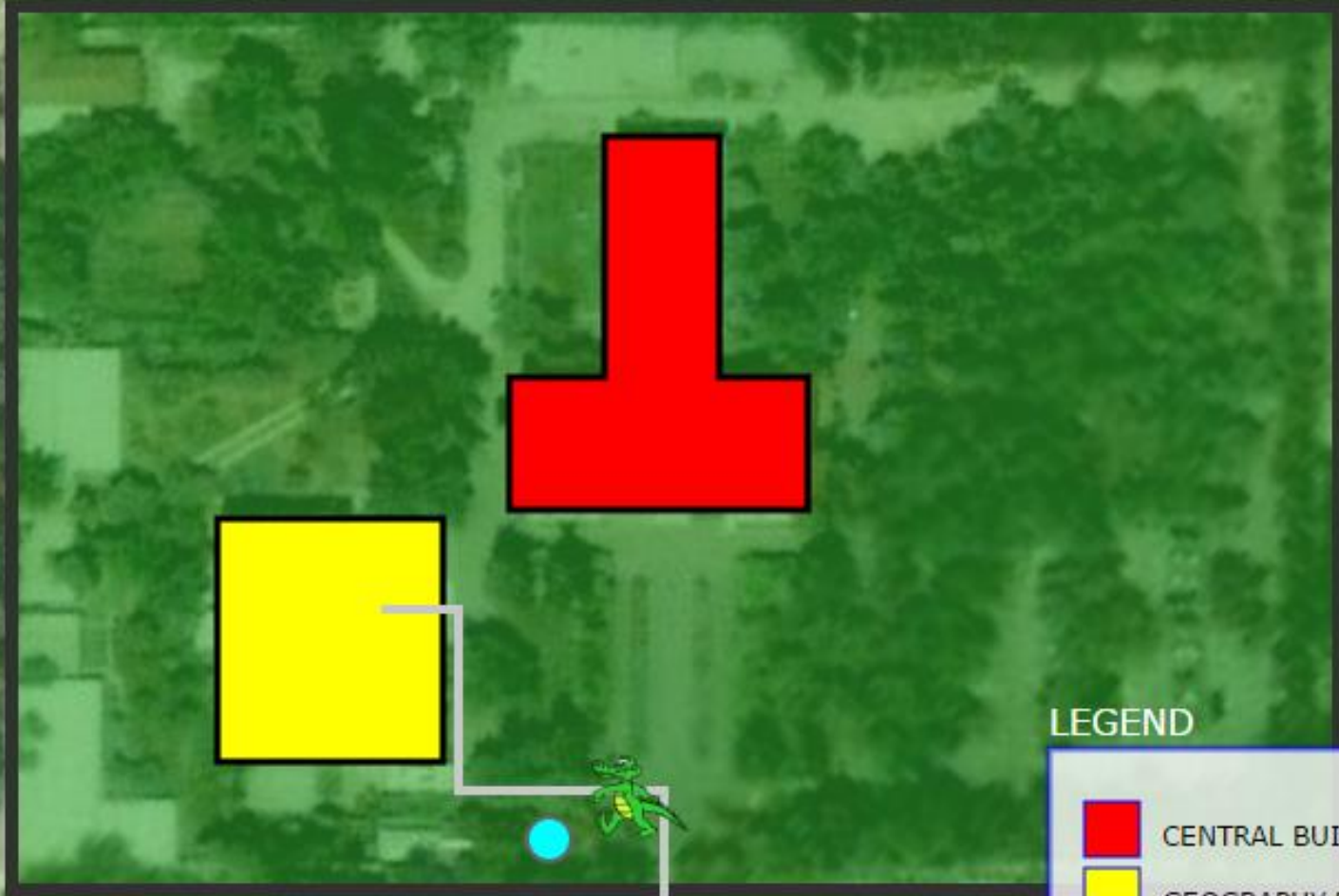
# Example






```
C:\Users\estef\Documents\GGE_ONLINE\Week 2\SVG_KML\SVG\svg_example.svg - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
svg_example.svg x
1 <svg width="100%" height="100%" version="1.1"
2 xmlns="http://www.w3.org/2000/svg"
3 xmlns:xlink="http://www.w3.org/1999/xlink">
4
5 <!--Insert an image as background-->
6 <image width="729px" height="526px"
7       xlink:href="photos/hua_photo.jpg">
8 </image>
9
10 <!--Define the canvas-->
11 <rect x="0" y="0" width="729" height="526"
12 style="fill:rgb(150,255,150);stroke:blue;stroke-width:3;
13 fill-opacity:0.3;stroke-opacity:1"/>
```

Normal text file | length: 3019 lines: 92 | Ln: 1 Col: 1 Sel: 0 | 0 | Dos\Windows | UCS-2 Little Endian | INS

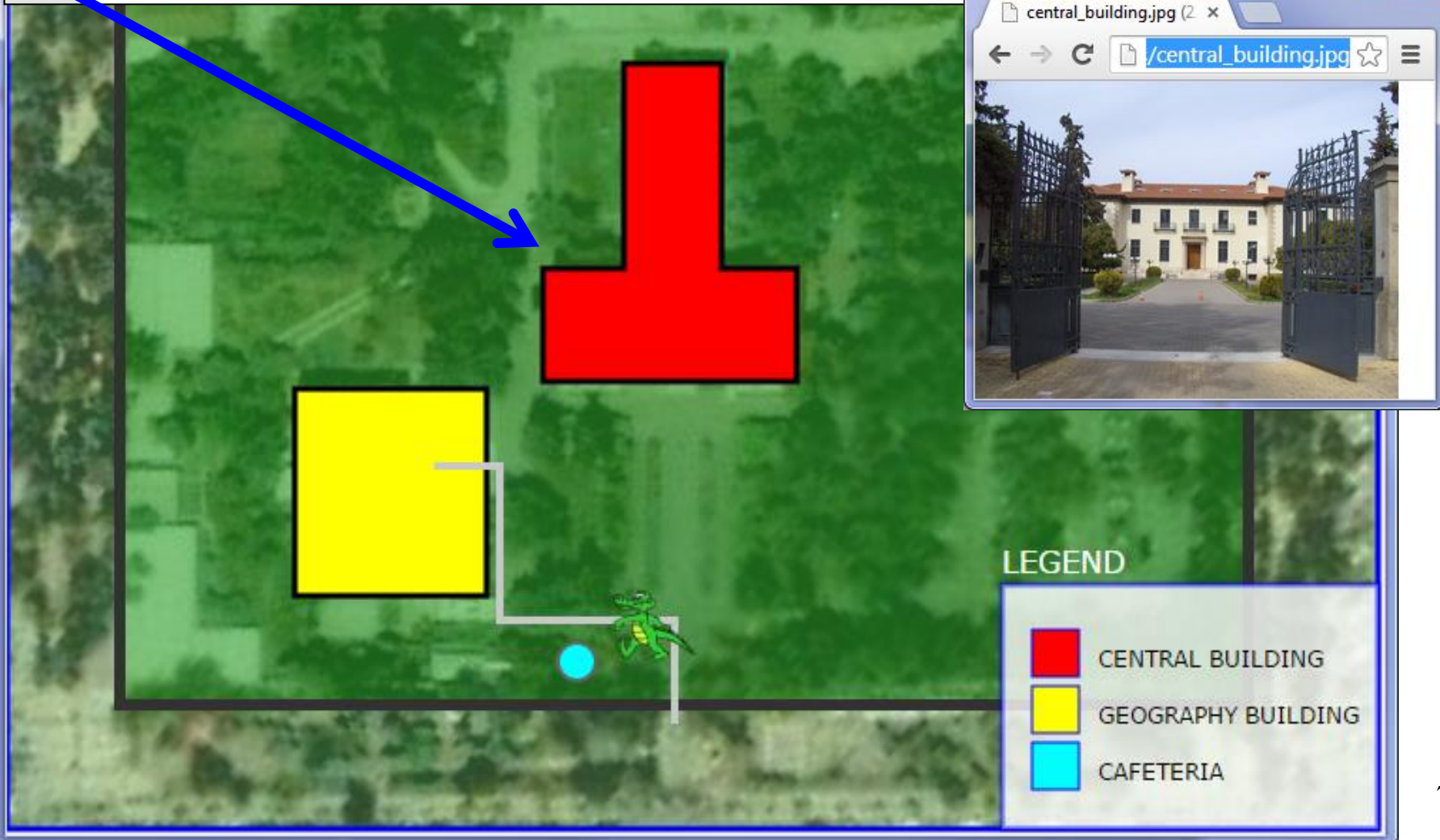
```
15 <!--Draw the fence-->
16 <rect x="60" y="60" width="600" height="400"
17 style="fill:green;fill-opacity:0.4;stroke:rgb(50,50,50);
stroke-width:6;"/>
```



#### LEGEND

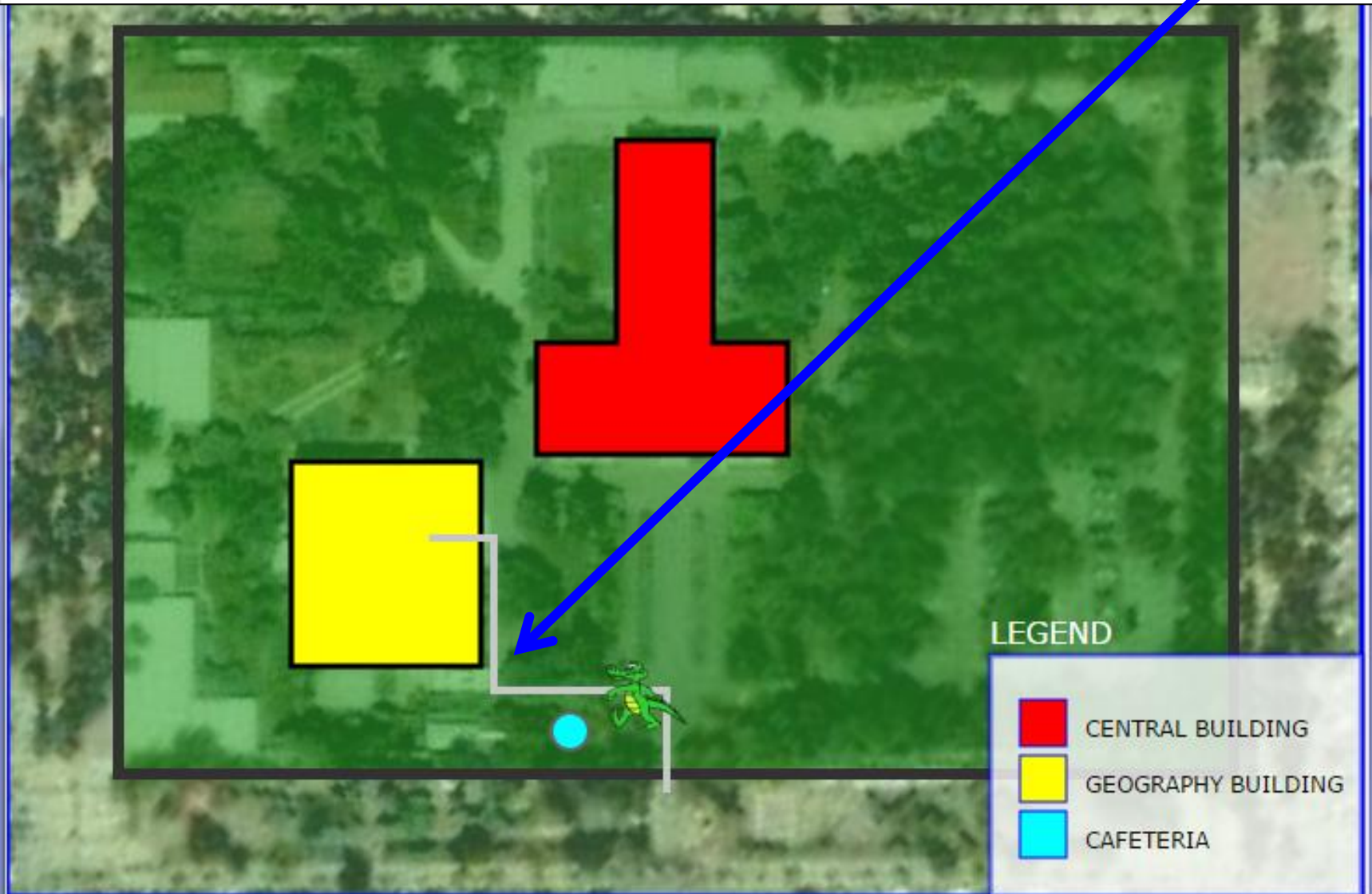
-  CENTRAL BUILDING
-  GEOGRAPHY BUILDING
-  CAFETERIA

```
19 <!--Draw the Central Building and create a hyperlink-->
20 <a xlink:href="./photos/central_building.jpg">
21 <polygon points="285,228, 285,288, 420,288, 420,228,
22     380,228, 380,119, 328,119, 328,228"
23 style="fill:red;stroke:black;stroke-width:3;"/>
24 </a>
```

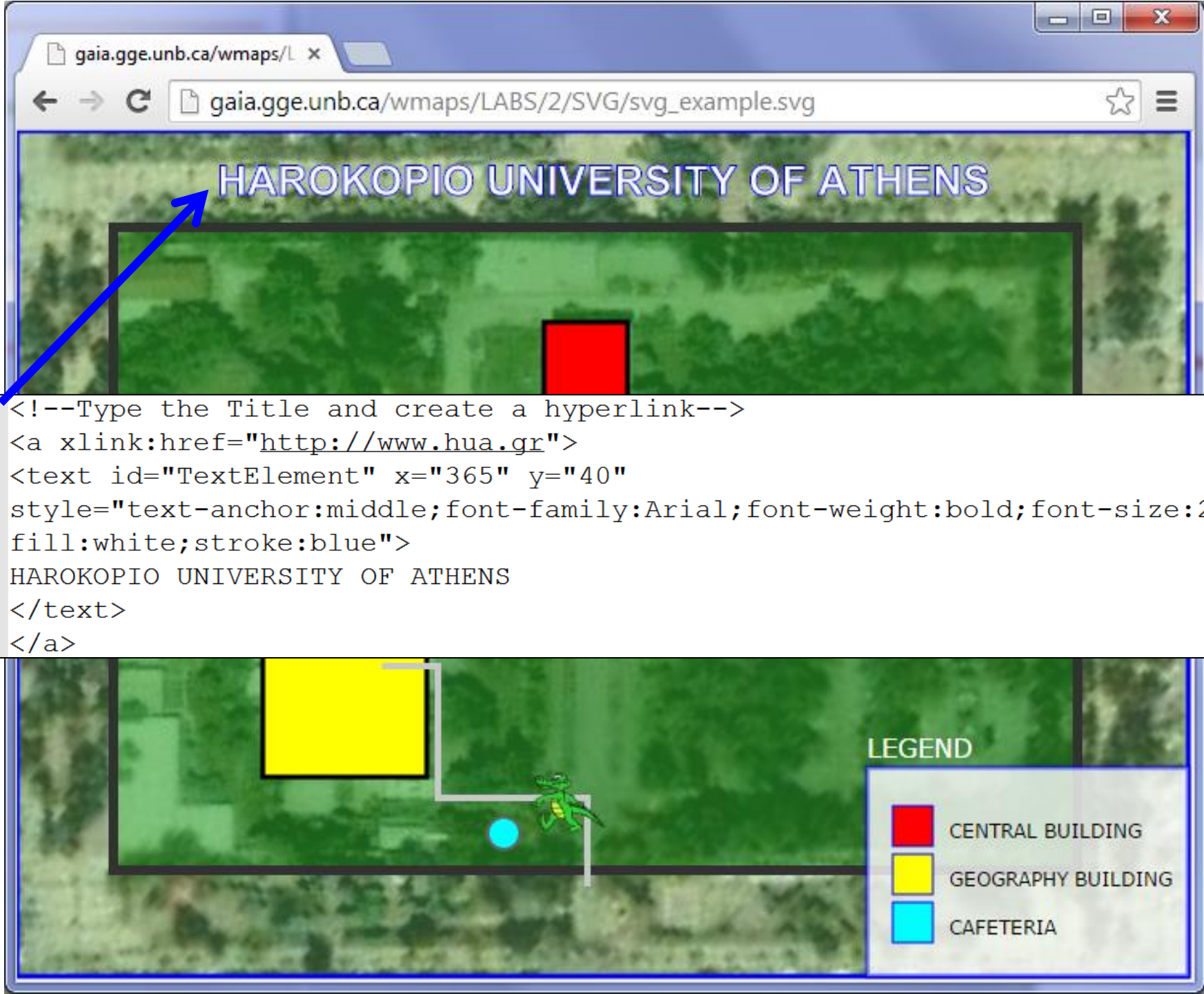




```
38 <!--Draw the path-->
39 <polyline points="355,470 355,415 262,415 262,333 227,333"
40 style="fill-opacity:0;stroke:rgb(200,200,200);stroke-width:
4;" />
```







```

50 <!--Create an moving image along a path-->
51 <!--The path is the same as the one defined previously-->
52 <!--The image is shifted half its size, to get its centre
    aligned with the path-->
53 <g transform="translate(-25,-25)">
54 <image width="50px" height="50px"
55       xlink:href="./photos/visitor.gif">
56
57 <animateMotion path="M 355 470 L 355 415 L 262 415 L 262
    333 L 227 333"
58 dur="5s"
59 repeatCount="indefinite"/>
60 </image>
61 </g>

```



```

63 <!--Draw the Legend-->
64 <rect x="529" y="396" width="200" height="130"
65 style="fill:white;stroke:blue;stroke-width:3;
66 fill-opacity:0.8;stroke-opacity:0.5"/>
67 <rect x="545" y="420" width="25" height="25"
68 style="fill:red;stroke:blue;stroke-width:1"/>
69 <rect x="545" y="450" width="25" height="25"
70 style="fill:yellow;stroke:blue;stroke-width:1"/>
71 <rect x="545" y="480" width="25" height="25"
72 style="fill:cyan;stroke:blue;stroke-width:1"/>
73
74 <!--Text in the Legend-->
75 <text id="TextElement" x="529" y="390"
76 style="font-family:Verdana;font-size:16;fill:white">
77 LEGEND
78 </text>
79 <text id="TextElement" x="580" y="440"
80 style="font-family:Verdana;font-size:12">
81 CENTRAL BUILDING
82 </text>

```

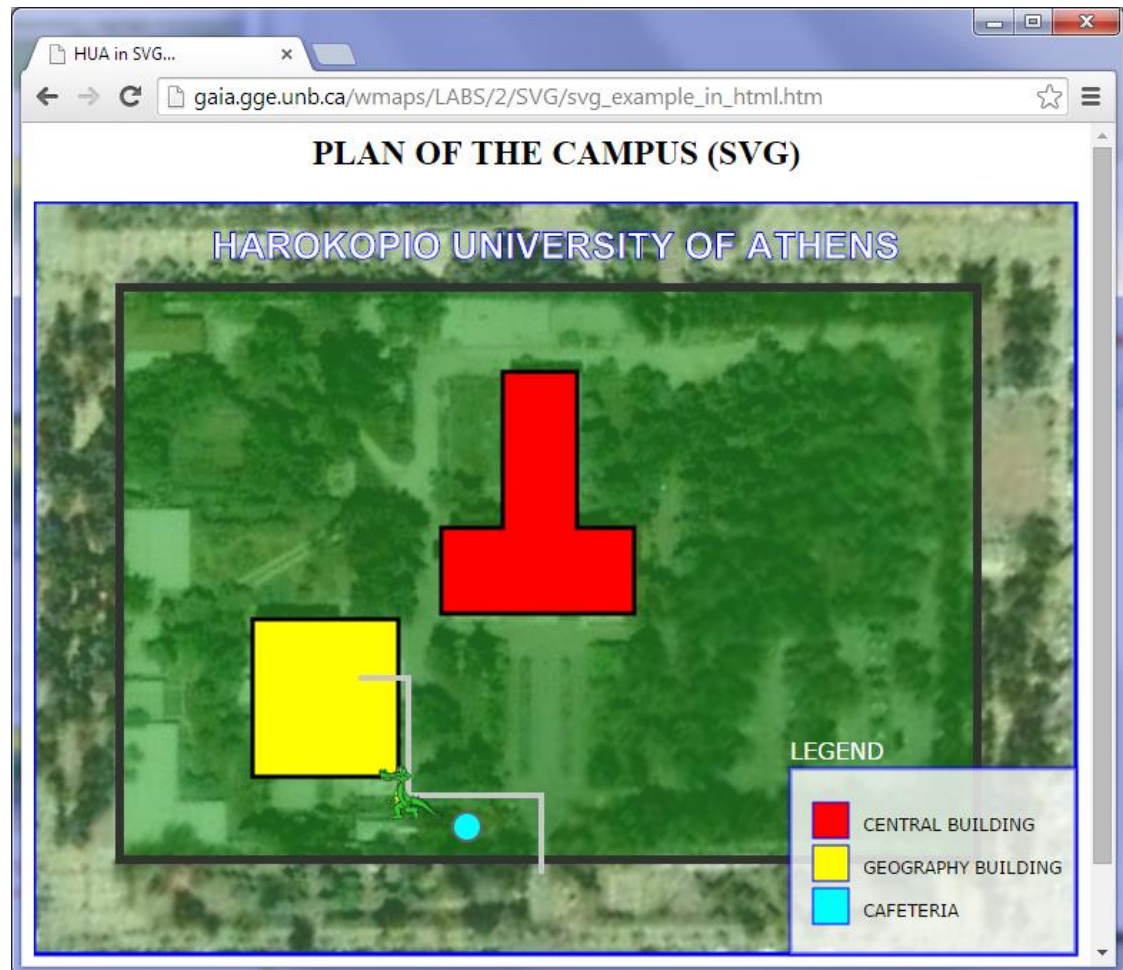




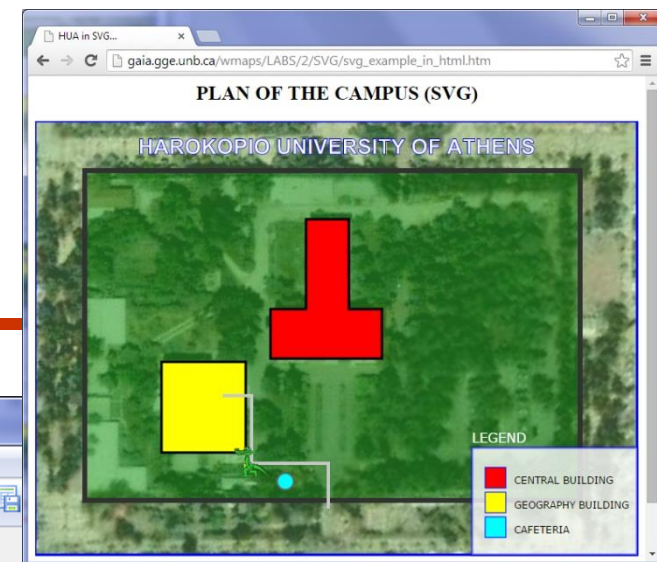
# Embed SVG into HTML

[http://gaia.gge.unb.ca:8080/gge5403/labs/2/SVG/svg\\_example\\_in\\_html.html](http://gaia.gge.unb.ca:8080/gge5403/labs/2/SVG/svg_example_in_html.html)

A VPN connection to  
UNB is required.



# Embed SVG into HTML



C:\Users\vestef\Documents\GGE\_ONLINE\Week 2\SVG\_KML\SVG\svg\_example\_in\_html.htm - Notepad++ [Administrator]

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

svg\_example\_in\_html.htm

```
1 <html>
2 <title>HUA in SVG...</title>
3
4 <body>
5
6 <h2 align="center">PLAN OF THE CAMPUS (SVG)</h2>
7 <object data="svg_example.svg" width="100%" height="100%"
8 x="100" y="100" type="image/svg+xml">
9 </object>
10
11 </body>
12 </html>
```

Hyper Text Markup Language file

length : 232 lines : 14

Ln : 1 Col : 1 Sel : 0 | 0

Dos\Windows

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# Introduction to SVG

**Emmanuel Stefanakis**

*estef@unb.ca*