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## Image Map tutorial (for JMatchMap)

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## Create an image-map with Gimp (for JMatchMap)

You can download Gimp [here](#). After installation, load Gimp.

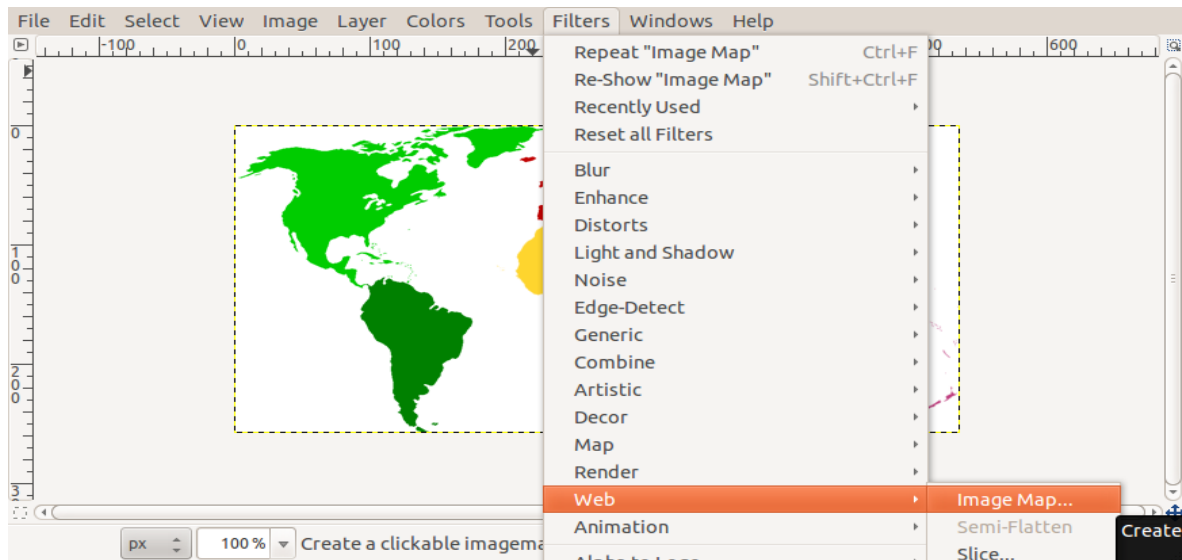
The example refers to the "continents.png" image in the "demos\_JMM" folder.

### Open the image to map with Gimp

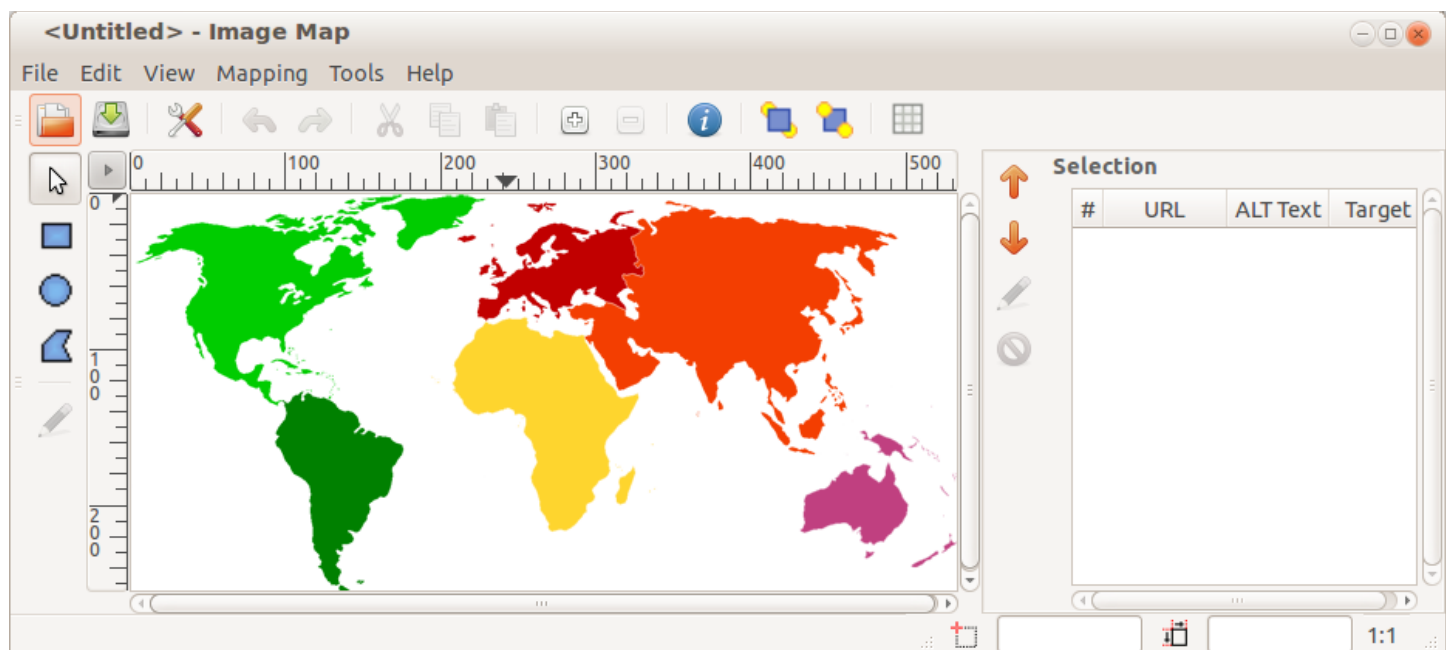
In our example, the image to map is continents.png.

### Open The Image Map Editor In Gimp

Use **Filters → Web → Imagemap**.



This should bring up the image map editor.



You will then be able to draw areas on the image with a chosen shape and Gimp will calculate and save the coordinates (in relation to the image boundaries) of these areas.

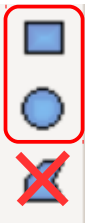
## Start Mapping

### Choose a shape

On the left select the **rectangular or circular shape**.

Don't use the polygon shape as JMatchMap will not be able to use it.

Note that using circular shapes is an easy way to point the exact center of the area which is the only useful data for JMatchMap.



### Draw a shape

This is quite intuitive: click on the image, move the pointer, and click again.

Don't worry about the dimensions of the area as JMatchMap will only take care of the center of the area. Just avoid to create overlapping areas.

As you finish each area, a pop up appears for you to fill in.

Area #1 Settings

Link Rectangle JavaScript

Link Type

☐ Web Site ☐ Ftp Site ☐ Gopher ☒ Other

☐ File ☐ WAIS ☐ Telnet ☐ e-mail

URL to activate when this area is clicked: (required)

#

☒ Relative link

Target frame name/ID: (optional - used for FRAMES only)

ALT text: (optional)

Océanie



Help Apply Cancel OK

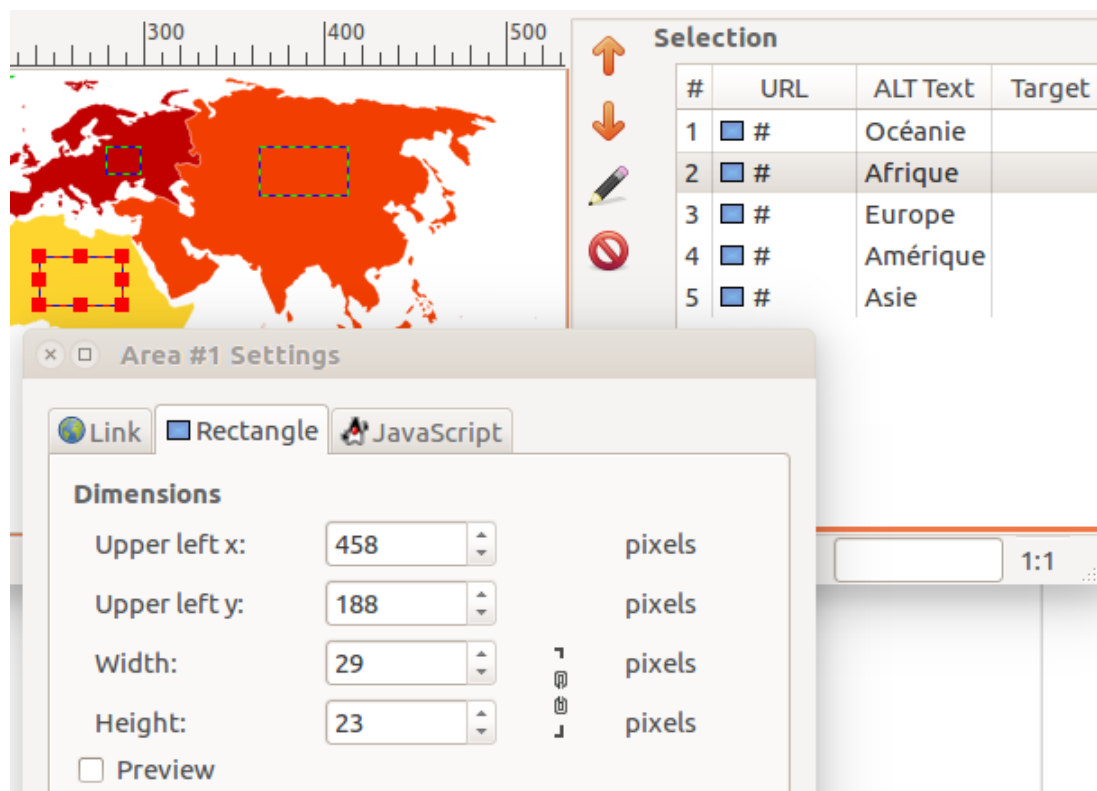
Type "#" in the text box for "URL to activate" and type a description of the area in the text box for "ALT text": it will be very useful when you build your JMatchMap exercise.

**Create the other areas** in the same way.

## Edit the image-map data

On the right of the working area is a property list of the created areas. A click on one item of the list automatically selects the corresponding shape in the working area.

You can adjust the position of an area using  (above the shapes on the left) or open the settings window using  and change the values of "Upper left x" and "Upper left y".

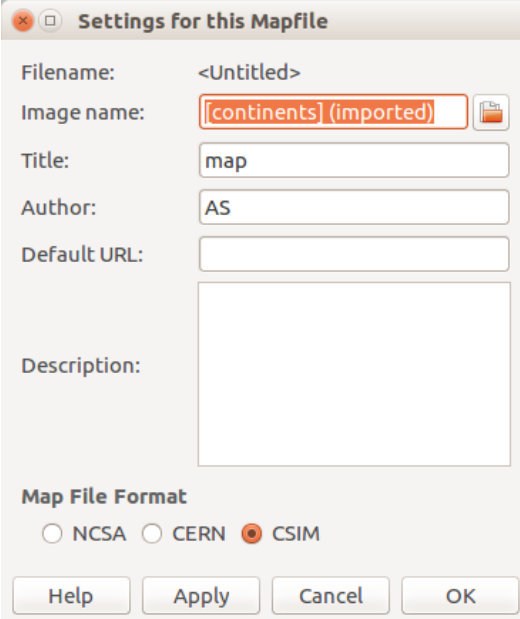


## Edit map info

Gimp (since version >2.8) transforms the name of your image ("continents.png") in "[continents] (imported)".

To get the correct name in the code you must change this.

**Mapping → Edit Map Info or ** :



Settings for this Mapfile

Filename: <Untitled>

Image name: [continents] (imported)

Title: map

Author: AS

Default URL:

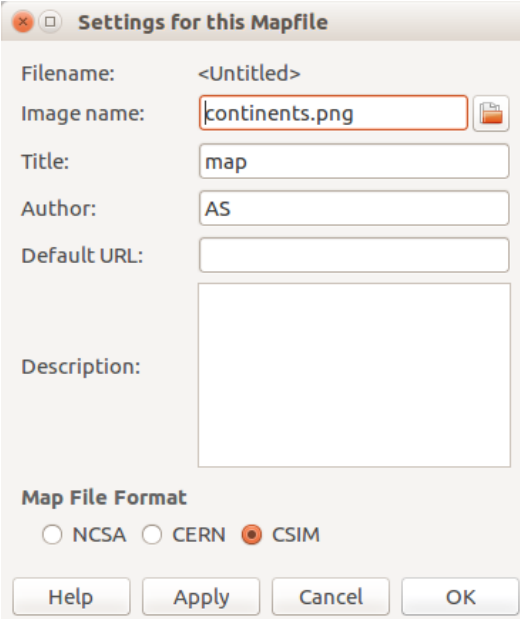
Description:

Map File Format

☐ NCSA ☐ CERN ☒ CSIM

Help Apply Cancel OK

Type "continents.png" for image name.



Settings for this Mapfile

Filename: <Untitled>

Image name: continents.png

Title: map

Author: AS

Default URL:

Description:

Map File Format

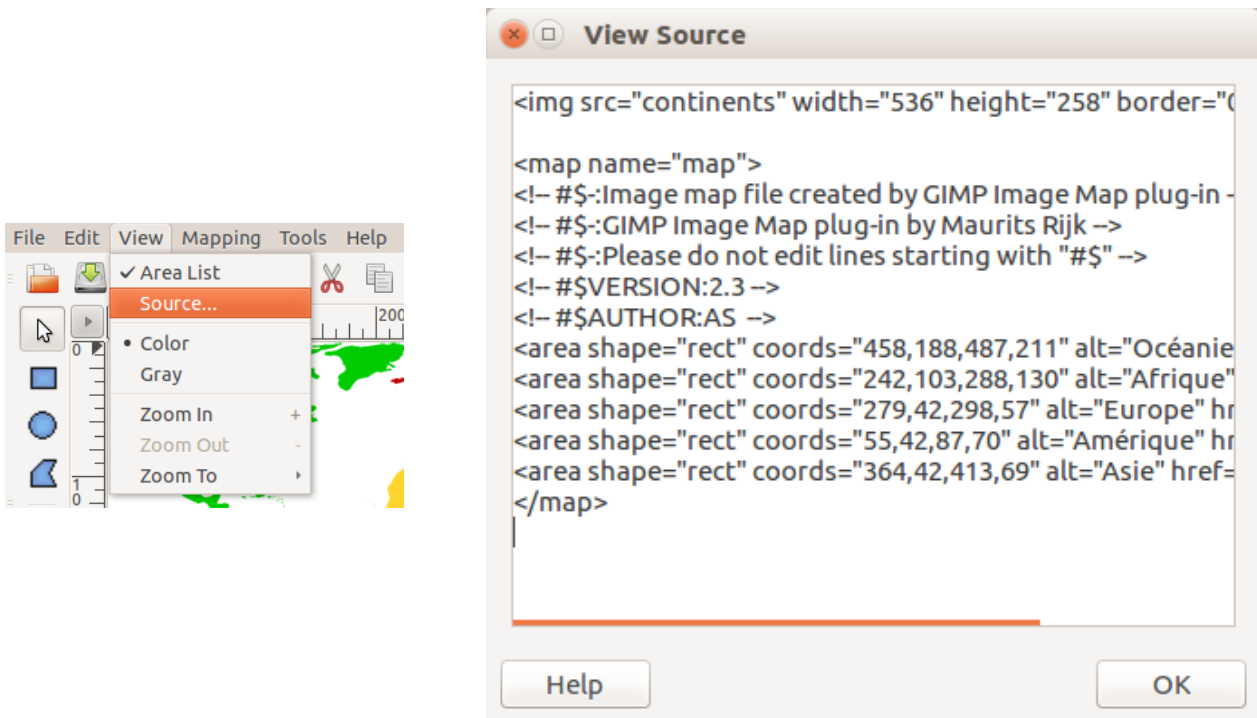
☐ NCSA ☐ CERN ☒ CSIM

Help Apply Cancel OK


## Get the code

After all of the designing is done, what you need in the end is the code.

Just go to **View** → **Source** and you will see the source code.



This is the text that is needed when building your JMatchMap exercise.

**Save the file** (File → Save or ) which will have a map extension (by default it will be "[continents] (imported).map" that you can change in "continents.png.map").

Note that if you want to modify the created image map later, you will have to open the image (continents.png), open the image map editor (Filters → Web → Imagemap) and load the previously saved "continents.png.map" (File → Open, in the image map editor).

## Clear the code

You should **delete some useless or obsolete parts** of the text :

```


<map name="map">
<!-- #$.Image map file created by GIMP Image Map plug-in -->
<!-- #$.GIMP Image Map plug-in by Maurits Rijk -->
<!-- #$.Please do not edit lines starting with "$" -->
<!-- #$.VERSION:2.3 -->
<!-- #$.AUTHOR:AS -->
<area shape="rect" coords="458,188,487,211" alt="Océanie" href="#" />
<area shape="rect" coords="242,103,288,130" alt="Afrique" href="#" />
<area shape="rect" coords="279,42,298,57" alt="Europe" href="#" />
<area shape="rect" coords="55,42,87,70" alt="Amérique" href="#" />
<area shape="rect" coords="364,42,413,69" alt="Asie" href="#" />
</map>
```

the cleared text will be :

```


<map name="map">
<area shape="rect" coords="458,188,487,211" alt="Océanie" href="#" />
<area shape="rect" coords="242,103,288,130" alt="Afrique" href="#" />
<area shape="rect" coords="279,42,298,57" alt="Europe" href="#" />
<area shape="rect" coords="55,42,87,70" alt="Amérique" href="#" />
<area shape="rect" coords="364,42,413,69" alt="Asie" href="#" />
</map>
```

As it is it will work but not satisfy the [validator](#) because you have to use an **alt attribute** for an image tag in HTML5.

So modify the code as below:

```

<map name="map">
<area shape="rect" coords="463,191,475,203" alt="Océanie" href="#" />
<area shape="rect" coords="276,141,288,153" alt="Afrique" href="#" />
<area shape="rect" coords="268,53,280,65" alt="Europe" href="#" />
<area shape="rect" coords="60,66,72,78" alt="Amerique" href="#" />
<area shape="rect" coords="390,53,402,65" alt="Asie" href="#" />
</map>
```

## Links

[Download Gimp](#)

[Gimp documentation](#)

[Gimp \(current version\) documentation for image map](#)

## Create an image map online (for JMatchMap)

There is a lot of web sites where you can create an image map.

Choose one which offers to add a title or alt for the areas. This will help you to create the exercise.

Most of the time you will have to modify the code that you get from these sites.

### I Mobilefish.com

Here is an example obtained on [mobilefish.com](https://www.mobilefish.com) :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<title>Image map</title>
<!--
How to install the image map:
Copy and paste the img, map and area blocks into the body of your page.

This imagemap is created at Mobilefish.com.
https://www.mobilefish.com/services/image_map/image_map.php
-->
</head>
<body>

<!-- START COPY -->

<map id="gd79569" name="gd79569">
<!-- Region 1 -->
<area shape="rect" alt="America" title="America" coords="54,39,89,62"
href="javascript:void(null);" target="_blank" />
<!-- Region 2 -->
<area shape="rect" alt="Africa" title="Africa" coords="236,102,284,126"
href="javascript:void(null);" target="_blank" />
<!-- Region 3 -->
<area shape="rect" alt="Europe" title="Europe" coords="284,38,309,52"
href="javascript:void(null);" target="_blank" />
<!-- Region 4 -->
<area shape="rect" alt="Asia" title="Asia" coords="361,46,412,73"
href="javascript:void(null);" target="_blank" />
<area shape="default" nohref alt="" />
</map>
<!-- END COPY -->
</body>
</html>
```



Lots of parts are useless or obsolete(~~border="0"~~). Delete them.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<title>Image map</title>
<!--
How to install the image map:
Copy and paste the img, map and area blocks into the body of your page.
--
This imagemap is created at Mobilefish.com.
https://www.mobilefish.com/services/image_map/image_map.php
-->
</head>
<body>
--
<!-- START COPY -->

<map id="gd79569" name="gd79569">
<!-- Region 1 -->
<area shape="rect" alt="America" title="America" coords="54,39,89,62"
href="javascript:void(null);" target="_blank" />
<!-- Region 2 -->
<area shape="rect" alt="Africa" title="Africa" coords="236,102,284,126"
href="javascript:void(null);" target="_blank" />
<!-- Region 3 -->
<area shape="rect" alt="Europe" title="Europe" coords="284,38,309,52"
href="javascript:void(null);" target="_blank" />
<!-- Region 4 -->
<area shape="rect" alt="Asia" title="Asia" coords="361,46,412,73"
href="javascript:void(null);" target="_blank" />
<area shape="default" nohref alt="" />
</map>
<!-- END COPY -->
</body>
</html>
```

Parts to modify:

- gd79569.png change it with the name of your image in your exercise folder (continents.png).
- gd79569 you can leave it as it is or use any name you want (e.g. "map", "areas")

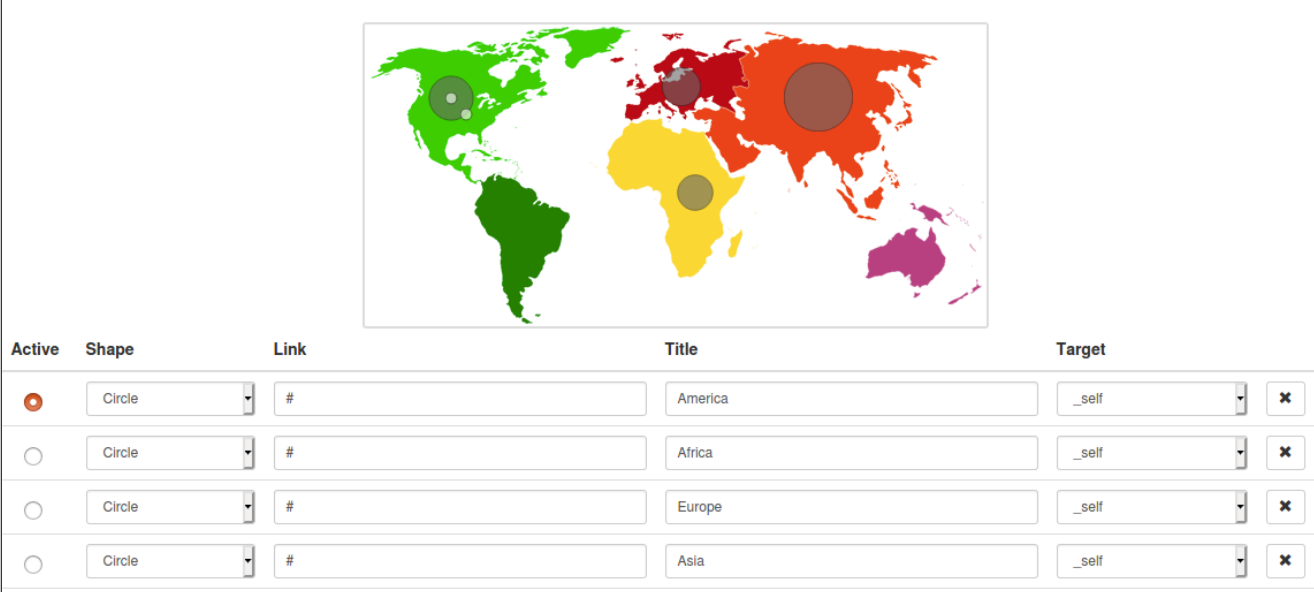
So the code could be reduced to :

```

<map id="map" name="map">
<area shape="rect" alt="America" title="America" coords="54,39,89,62"
href="javascript:void(null);" target="_blank" />
<area shape="rect" alt="Africa" title="Africa" coords="236,102,284,126"
href="javascript:void(null);" target="_blank" />
<area shape="rect" alt="Europe" title="Europe" coords="284,38,309,52"
href="javascript:void(null);" target="_blank" />
<area shape="rect" alt="Asia" title="Asia" coords="361,46,412,73"
href="javascript:void(null);" target="_blank" />
</map>
```

## II image-map.net

<https://www.image-map.net/> is a very good site quite more easy to use than mobilefish.com, especially with a circle shape, but unfortunately you will have to add manually alt, width and height for the image.



A world map with continents colored: North America (green), South America (dark green), Africa (yellow), Europe (red), Asia (orange), and Australia (purple). Overlaid on the map are four semi-transparent circles, each centered on a continent. Below the map is a configuration table with columns: Active, Shape, Link, Title, and Target.

Active	Shape	Link	Title	Target
<input checked="" type="radio"/>	Circle	#	America	_self
<input type="radio"/>	Circle	#	Africa	_self
<input type="radio"/>	Circle	#	Europe	_self
<input type="radio"/>	Circle	#	Asia	_self

You will get this code:

```
<!-- Image Map Generated by http://www.image-map.net/ -->


<map name="image-map">
  <area target="_self" alt="America" title="America" href="#" coords="73,62,19" shape="circle">
  <area target="_self" alt="Africa" title="Africa" href="#" coords="285,144,15" shape="circle">
  <area target="_self" alt="Europe" title="Europe" href="#" coords="273,52,17" shape="circle">
  <area target="_self" alt="Asia" title="Asia" href="#" coords="392,61,30" shape="circle">
</map>
```

So you have to **add alt="continents" width="536" height="258"** to the image tag:

```
!-- Image Map Generated by http://www.image-map.net/ -->


<map name="image-map">
  <area target="_self" alt="America" title="America" href="#" coords="73,62,19"
shape="circle">
  <area target="_self" alt="Africa" title="Africa" href="#" coords="285,144,15"
shape="circle">
  <area target="_self" alt="Europe" title="Europe" href="#" coords="273,52,17" shape="circle">
  <area target="_self" alt="Asia" title="Asia" href="#" coords="392,61,30" shape="circle">
</map>
```

Note: to know the width and height of an image usually you just have to give the image file a right click, in the File Explorer, and look at the properties.