

COMP 4021  
Internet Computing

# DIVs and Image Maps

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# Div Example

- A div is a 'box' area which can contain anything
- The resulting display is shown on the next slide

```
<h2>Three div, with no exact positioning</h2>
```

```
<div id="pretty_title1" style= "font-size:56pt; background-color:yellow">  
COMP303 layer  
</div>
```

```
<div id="pretty_title2" style= "font-size:56pt; background-color:gray">  
COMP303 layer  
</div>
```

```
<div id="pretty_title3" style= "font-size:56pt; background-color:yellow">  
COMP303 layer  
</div>
```

Three div, with no exact positioning

COMP303 layer

COMP303 layer

COMP303 layer

Done

Internet

# HTML Div

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- Force the div to appear at any position on the page
  - Use *top* and *left* parameters (not x, y)

```
<div id="pretty_title" style= "position:absolute;  
left:200; top:100; background-color:yellow;  
font-size:56pt; ">
```

COMP303 layer

```
</div>
```

# Web Page Coordinate System

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Top left hand  
corner of web  
page is (0,0)

Browser window

DIV

This is a DIV

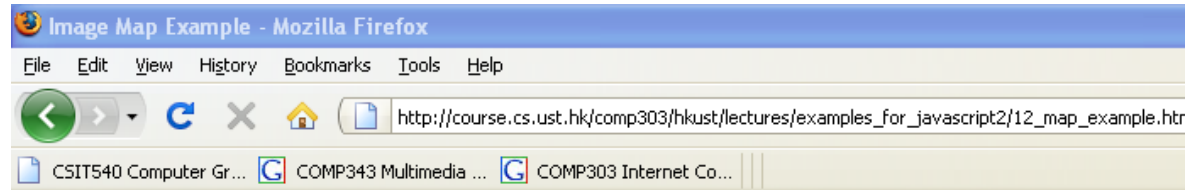
Bottom right hand  
corner of web page  
is (width-1, height-1)

# Div Style Parameters

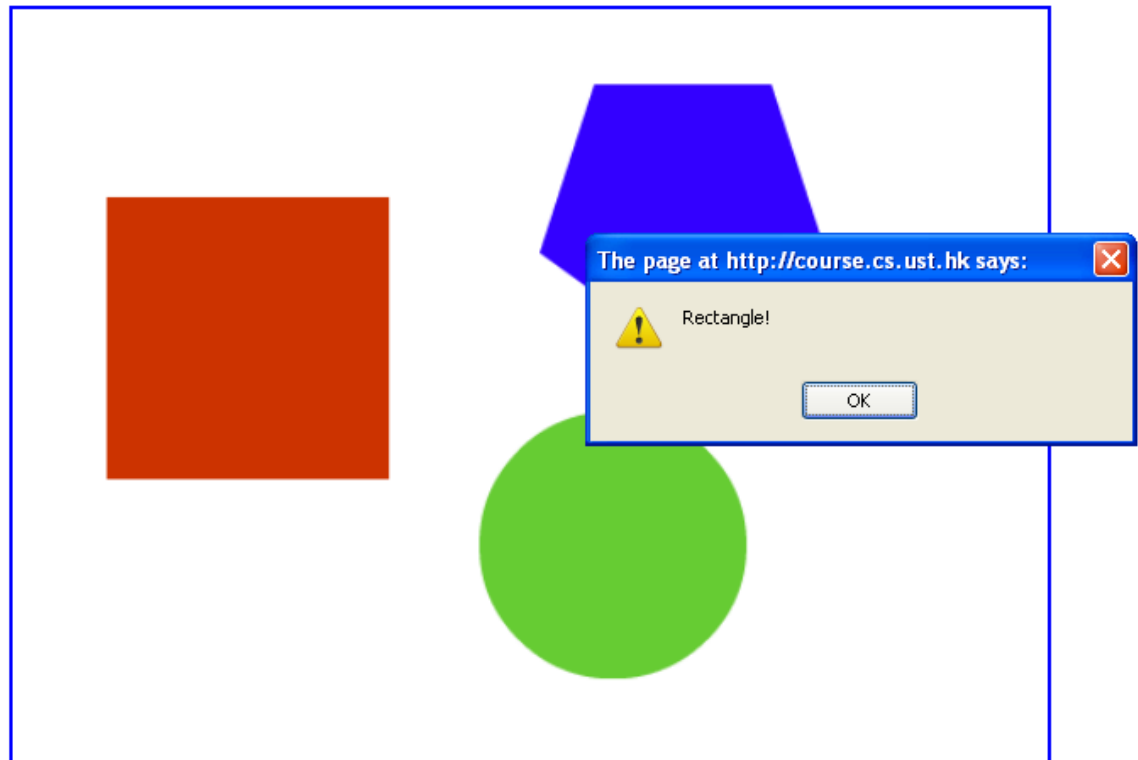
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- ❑ `position:absolute;` - tells the browser you (programmer) will set the position, so the browser doesn't need to work out the position
- ❑ `left:200;` - sets the left hand side position of the div
- ❑ `top:100;` - sets the top position of the div
- ❑ `background-color` - sets the background colour of the div area
- ❑ `font-size:56pt;` - tells the browser what size the text will be

- Image map example:  
click on different parts of the map to trigger JavaScript to jump to other web pages
- How to do this?

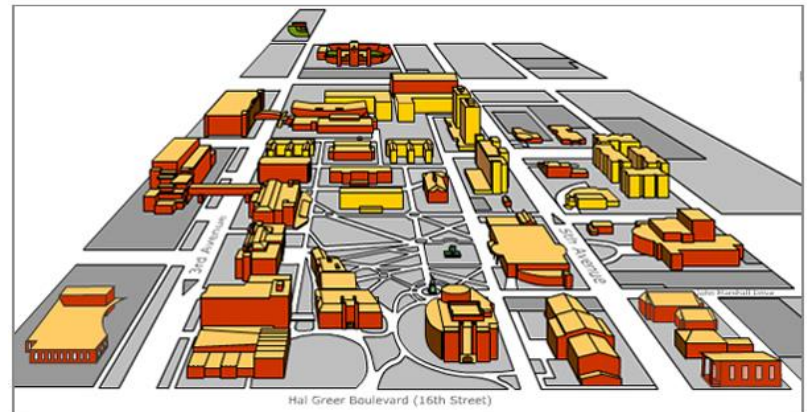


## Image Map Example

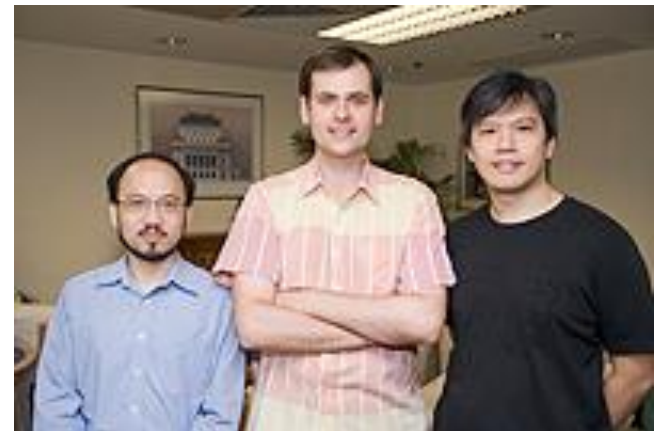


# Using a Map for an 'Index'

- Click on a building, JavaScript shows information about how to get there



- Click on a face, JavaScript tells the browser to go to the home page of that person





# Image Maps

- ❑ `<map>` and `<area>` define the area within which a click will call a JavaScript function or jump a link

You can run any JavaScript function or simply go to another page here!

```
<map name="website_overview" >  
  <area shape="rect" coords="40,40,139,159"  
    href="javascript:alert('Rectangle!')" />  
  <area shape="circle" coords="230,70,50" ... />  
  <area shape="poly" coords="370,50,370,170,260,170"... />  
</map>  

```

- ❑ A challenge is to align the coordinates of the areas with the displayed objects in overview.png

# Take Home Message

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- ❑ DIV is useful (a the recommended method) for controlling the display of a part of a webpage
  - Put them anyway on a webpage
  - Show or hide them using JavaScript
  - Change their content, color, etc.
- ❑ More efficient than using `<table>`
- ❑ How to achieve “image map” function using DIV?