



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">  
COMP4021 layer  
</div>
```

```
<div id="pretty_title2" style= "font-size:56pt; background-color:gray">  
COMP4021 layer  
</div>
```

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

THREE DIV, WITH NO EXACT POSITIONING

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HTML Div

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

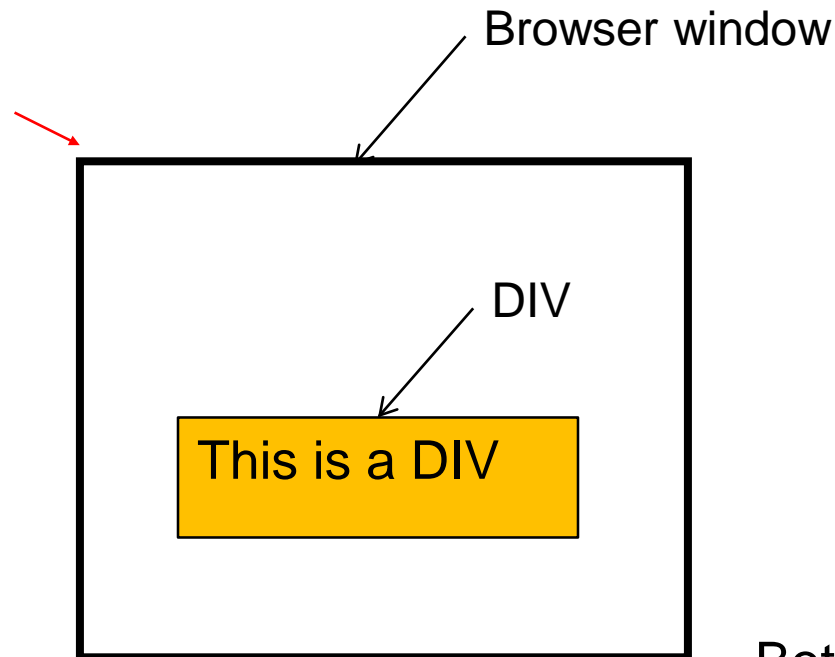
```
<div id="pretty_title" style= "position:absolute; left:200; top:100;  
background-color:yellow;  
font-size:56pt; ">
```

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```
</div>
```

Web Page Coordinate System

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



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

Div Style Parameters

- `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

Div and Span

- ‘div’ and ‘span’ are useful because they don’t have any default visual display parameters
- div is additionally useful because it can have any position
- ‘div’ is typically for a rectangular area of text/objects, i.e.

```
<div style="background-color: yellow;  
font-weight: bold; color: black;">  
    <p>Here’s a paragraph</p>  
    <p>Here is a second paragraph</p>  
</div>
```

- ‘span’ is for a few “inline” words:

```
<p>This part is <span style="color:blue; background-  
color:red;">special</span> </p>
```

- Or do not change the style but just assign ID to a text segment so that you can manipulate it later (e.g., by JavaScript)

div introduces a line break but span does not

Image Maps

- One way to handle navigation of a web page/ web site is to use the html 'map'

```
<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>  
  

```

Another example
you can run any
JavaScript

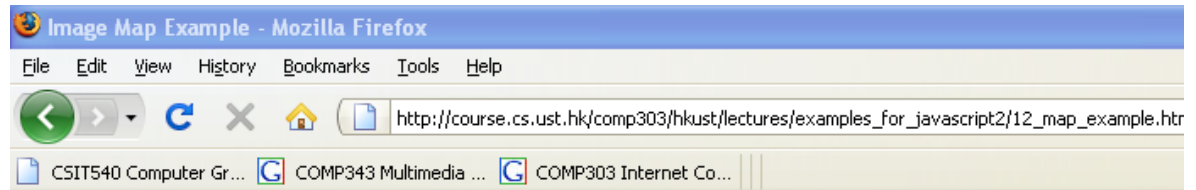
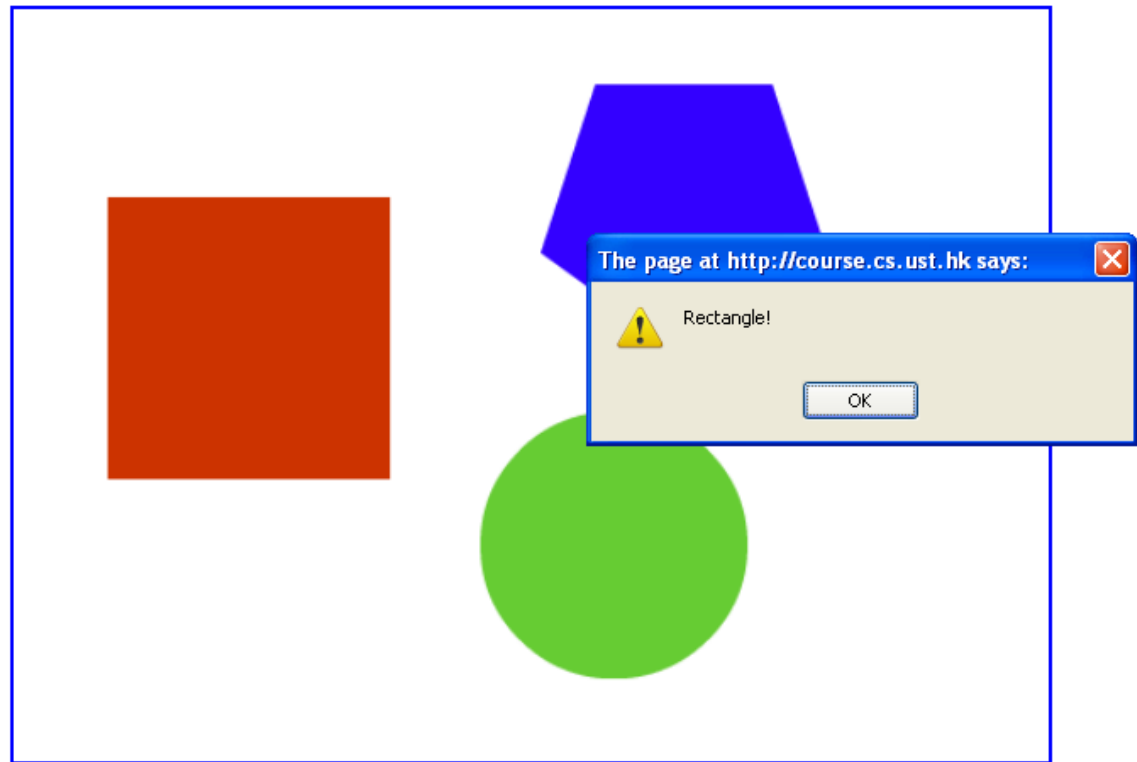


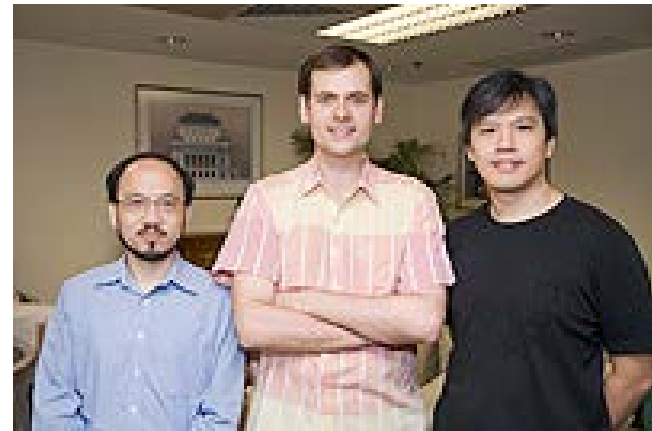
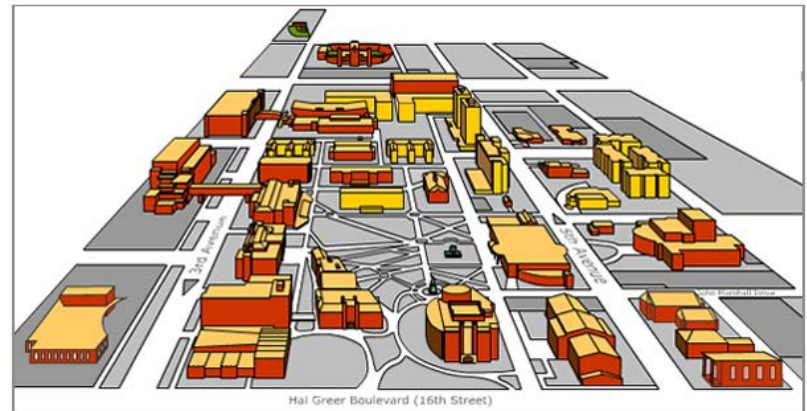
Image Map Example



- Typical use of an image map:
click on different parts of the map to trigger JavaScript to
jump to other web pages

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



Take Home Message

- 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?