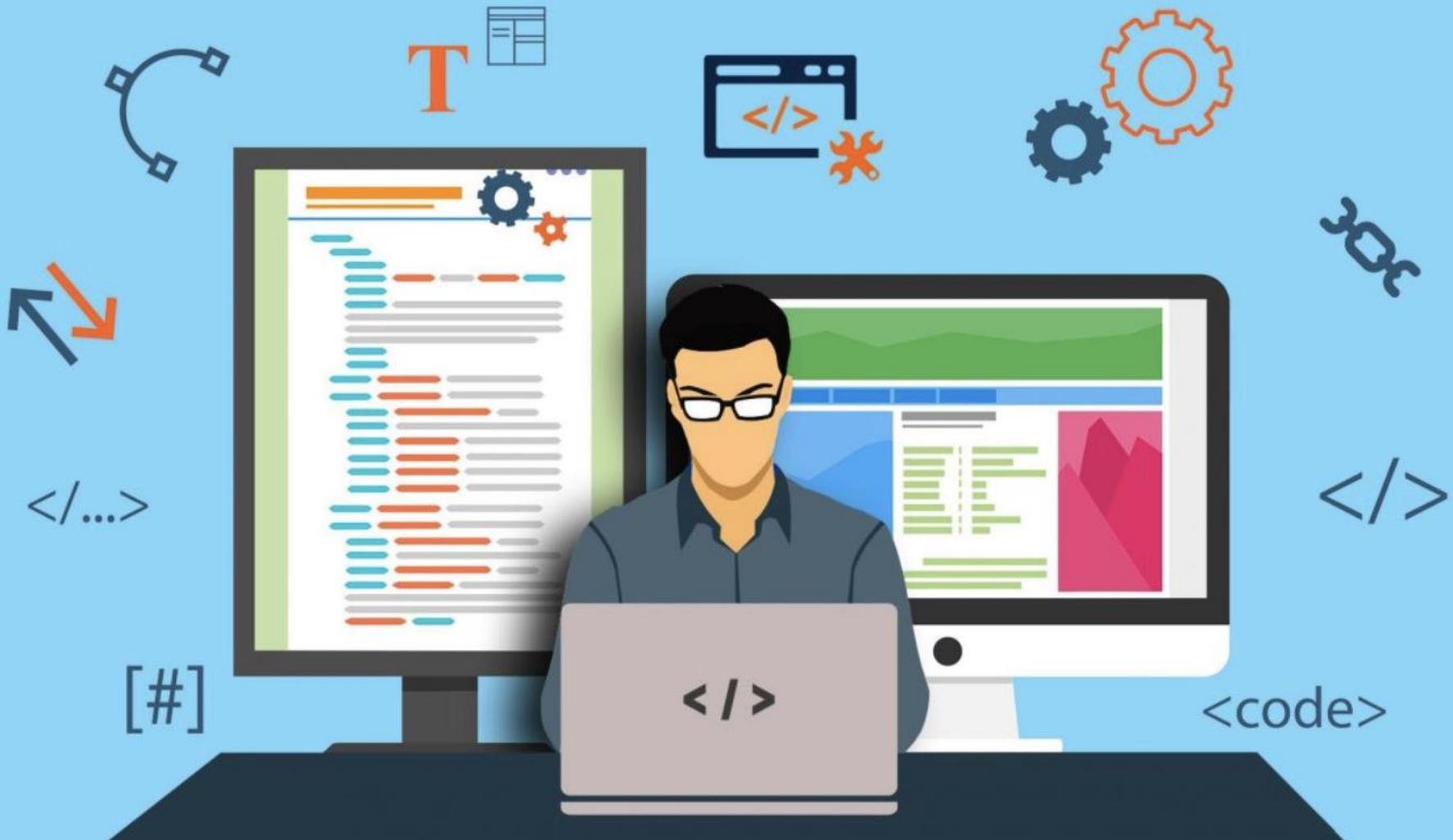


# Page Layout: Layers, Tables & Frames



# Layout Trends

<https://99designs.ie/blog/trends/web-design-trends/>

<https://merehead.com/blog/8-main-trends-of-web-design-2020/>

<https://mobiteam.de/en/the-future-of-web-design-2019-2020-top-3-trends/>

<https://www.kunocreative.com/blog/hottest-website-design-trends>

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.js .coffee .ts  
.py .php .rb  
.net .java mobile  
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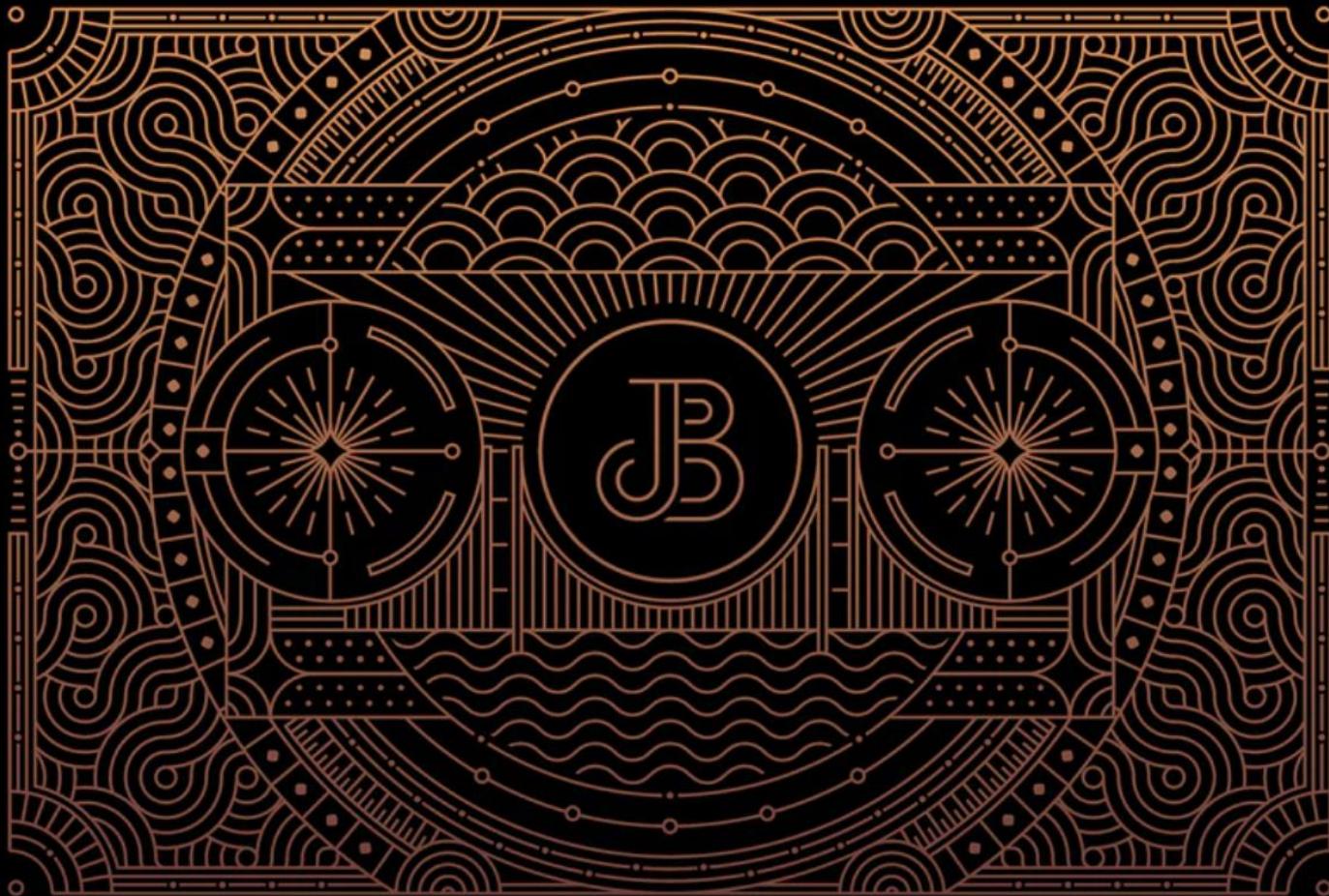


netbee

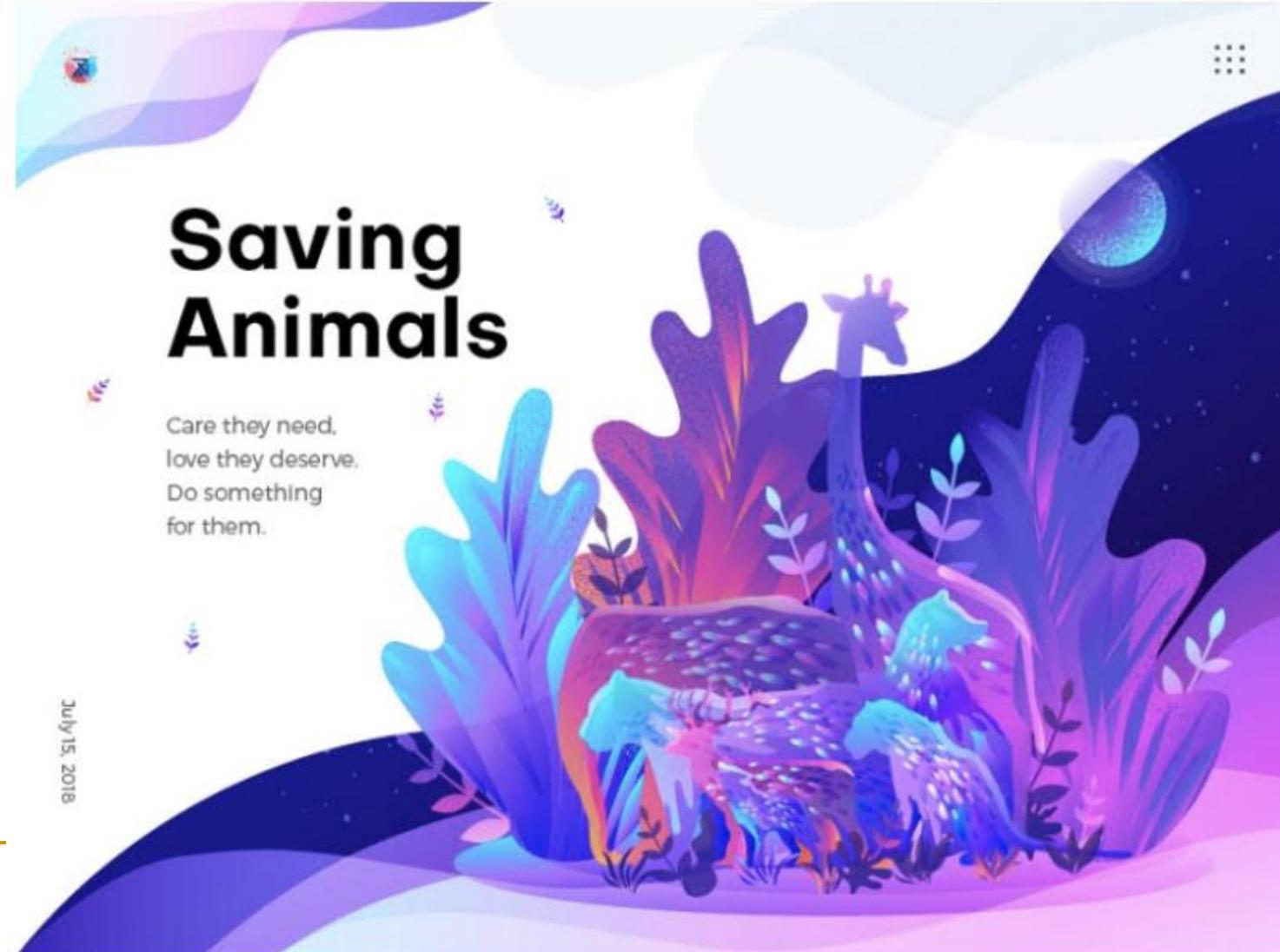
# Mobile First



# Art Deco



# Gradient design, colour optimisation



July 15, 2018

# Big, Bold Typography



# Geometric Shapes

SITE OF THE DAY  
AWARDS

Vol. ONE

*the death of advertising*



17

NICE



Z<sub>5</sub>

A N A K I N

(.5)



Z<sub>5</sub>

WORK  
FEED  
ABOUT  
CONTACT



# Modern Retro Design

A vintage-style promotional poster for the interactive documentary "I'M YOUR MAN". The poster features a shirtless boxer in a boxing ring, flexing his muscles. The title "I'M YOUR MAN" is prominently displayed in large, white, outlined letters across the center. Above the title, a circular badge says "NOT ON TV!" and the text "A UNIQUE ONLINE ONLY EXPERIENCE!". Below the title, it says "SBS AUSTRALIA PRESENTS" and "AN INTERACTIVE DOCUMENTARY ABOUT AUSTRALIA'S BOXING LEGENDS.". At the bottom, it credits "BASED ON THE STAGE PLAY BY Roslyn Oades WITH MUSIC BY Briggs". A call-to-action button says "BEGIN THE DOCUMENTARY" and describes it as "a 20 minute experience". Social sharing icons for Twitter, Facebook, and Google+ are in the top right corner. A warning at the bottom states: "Aboriginal and Torres Strait Islander viewers are warned that the following program may contain images and voices of deceased persons."

NOT ON  
TV!

A UNIQUE ONLINE ONLY EXPERIENCE!

SBS AUSTRALIA PRESENTS

I'M YOUR MAN

AN INTERACTIVE DOCUMENTARY ABOUT AUSTRALIA'S BOXING LEGENDS.

BASED ON THE STAGE PLAY BY  
*Roslyn Oades*  
WITH MUSIC BY  
*Briggs*

BEGIN THE DOCUMENTARY

a 20 minute experience

Aboriginal and Torres Strait Islander viewers are warned that the following program may contain images and voices of deceased persons.

# Simple Home Pages

DITTO

Technology

Careers

Contact

GAME  
CHANGING  
INNOVATION.

Virtual try-on and frame  
recommendation technology for  
eyewear retailers.

Request Pricing Info

OUR

# Flat Design 2.0

scale

Products

Pricing

Company

Documentation

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# Broken Grid Layouts

HOME   SHOP   ABOUT   JOURNAL

EXPLORE SHOP

## Behind the Brand

It all started with the drive to create something bigger & better than what was already out there. Hours of drawing, thinking, re-thinking, iterating, and finally creating, all to result in a lifestyle brand with some serious bite. DUSKO isn't just polite t-shirts and socks, it's a collection of everyday details that give you that kick of inspiration, the drive to keep going, get s\*\*\* done.

Help

# Illustrations Take Centre Stage

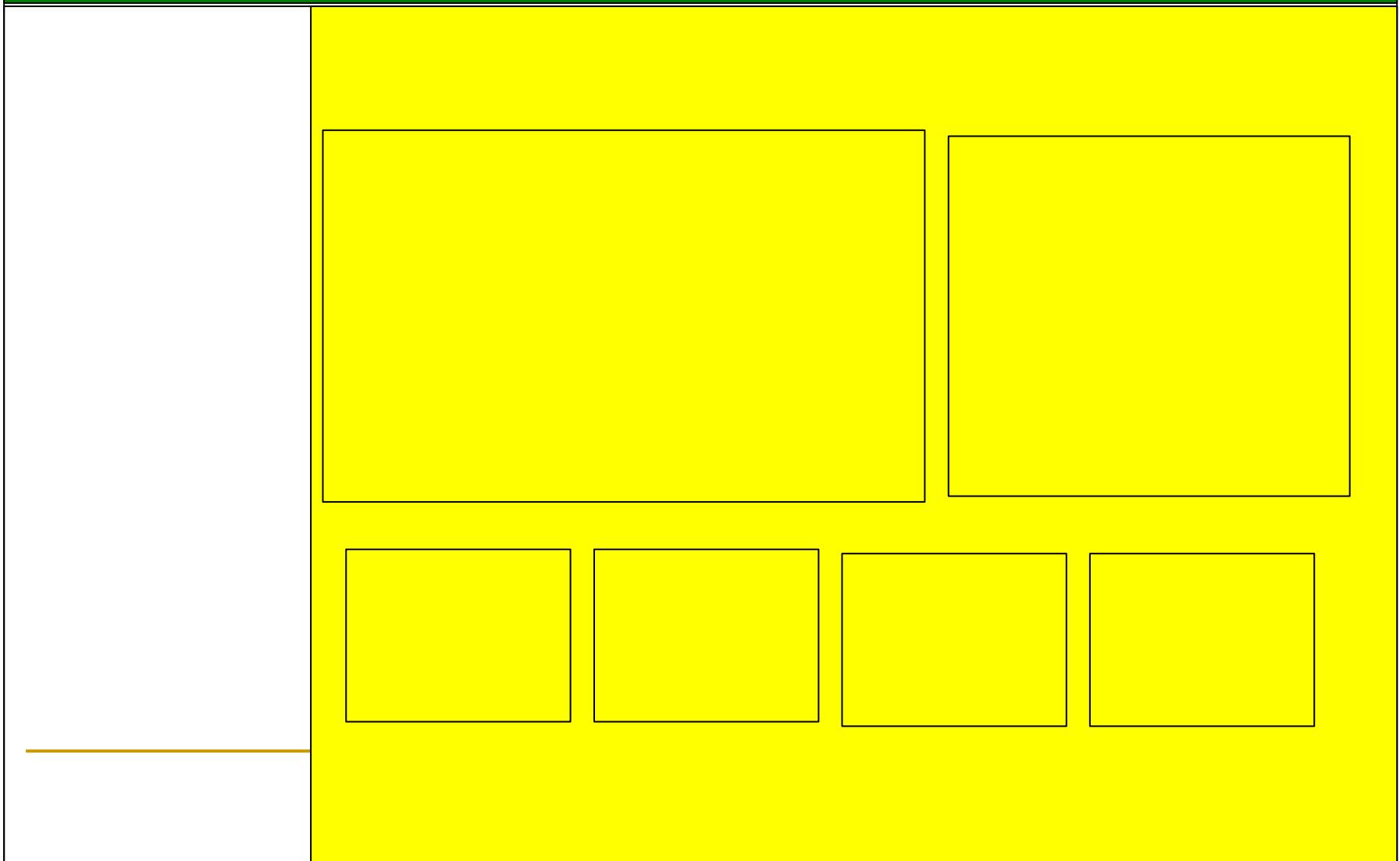
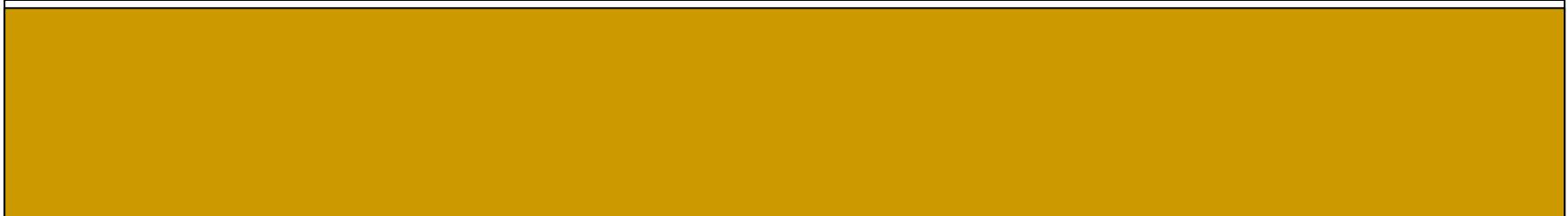


Photograph by Alexandra Gavillet



Illustration by Lynnie Z

Evolving the Dropbox Brand



**THIS IS A WIREFRAME**

# What is a Wireframe?

- “The purpose of a **wireframe** is to communicate the **layout** of the page without getting caught up in colour and design elements”

*Webdesignledger*



# Laptop Layout

## *Creating a Wireframe*

---

**CODING**[CSS](#)  
[HTML](#)  
[JavaScript](#)  
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[Responsive](#)  
[Typography](#)  
[Inspiration](#)**MOBILE**[iPhone & iPad](#)  
[Android](#)  
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[Fireworks](#)  
[Wallpapers](#)  
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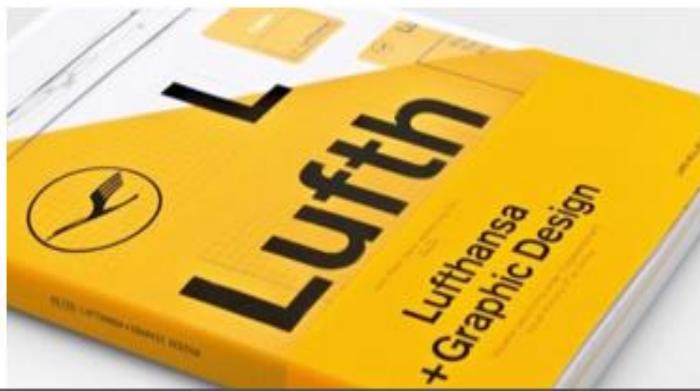
By [Josip Budzaki](#)

February 9th, 2016

[Branding](#), [Case Studies](#), [Strategy](#)

3 Comments

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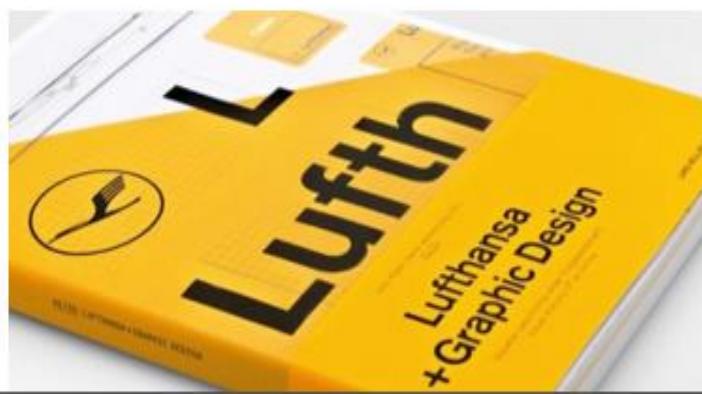
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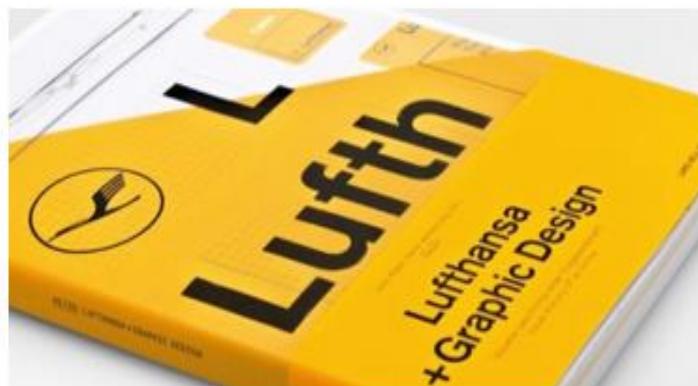
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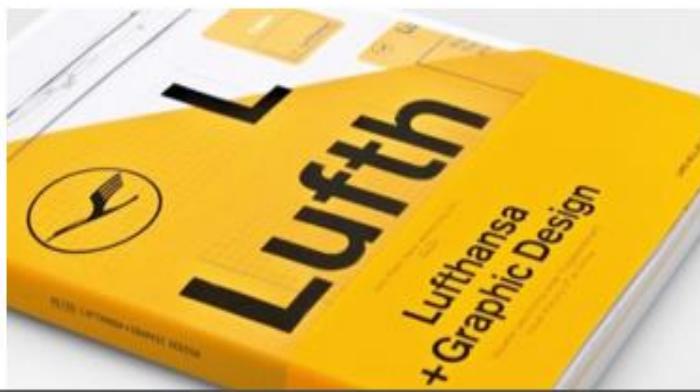
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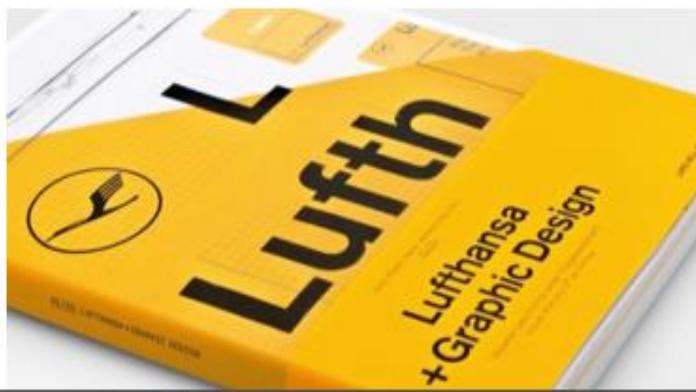
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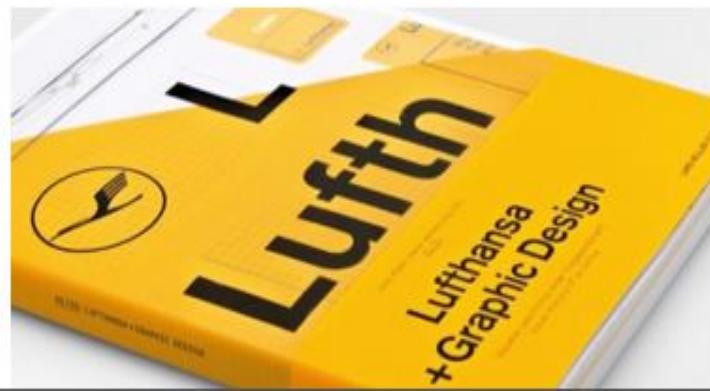
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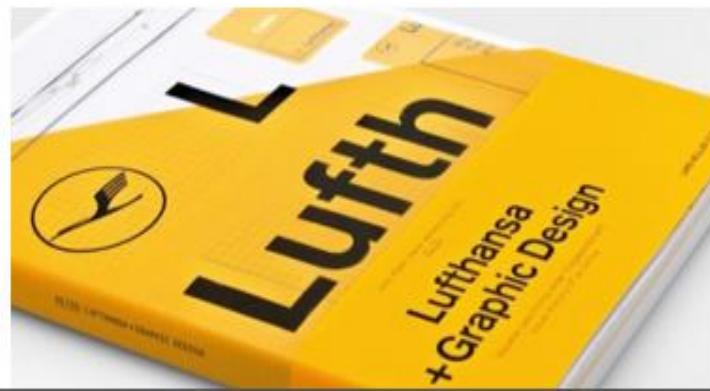
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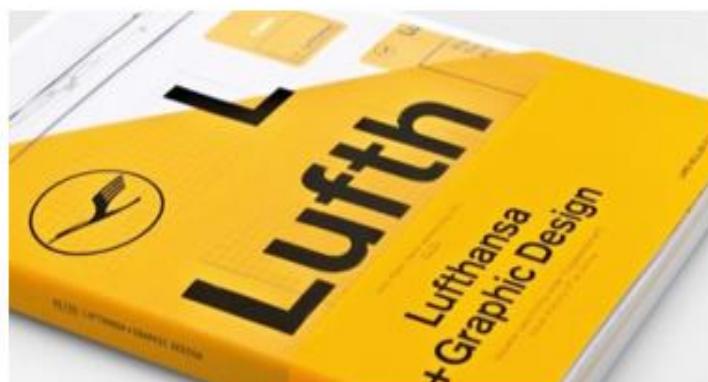
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Branding, Case Studies, Strategy

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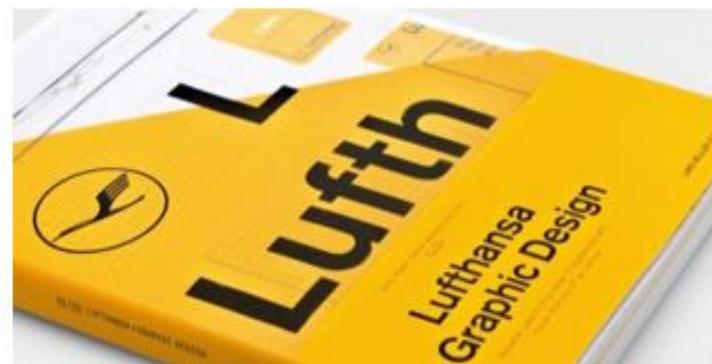
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## Mobile Version

Search on Smashing Magazine

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## Tablet Version

**REMINDER...**

**<div></div>**

**Layers**

```
<div></div>
```

## Description:

```
<div> ....</div>
```

*This 'greyed'  
information will be  
in an external CSS  
file*

## Implementation:

```
<div style="width:100%; height:15%;  
background-color:#FF7F24;"> Overview of  
DIT</div>
```



## Output:

Overview of DIT

# Layer Positioning

- A **layer** is a rectangular container (region) that holds HTML content and can be positioned anywhere on a web page
- Layer is placed using pixel coordinates/percentages
- Layers organize and format page content
- Initial layers can get covered by new layers

# Properties of Layers

- Some important properties are:

- **id** – specifies layer name, used with CSS
- **location** – measured relative to top left corner
- **size** – specifies width and the height
- **visibility** – specifies whether a layer is hidden or visible
- **background color** – a colour can be assigned to a layer
- **overflow** –what to do if content exceeds layer's size

# Properties of Layers

**id** = any variable name e.g., BANNER

**Location** = at the very top of the screen

**Size** = e.g., width is 100% and banner is 60 pixels deep

**Visibility** = e.g., it is visible

**background color** = white

**Overflow** = what happens if the content overflows?

The screenshot shows a web page from Smashing Magazine. At the top, there's a navigation bar with links for Books, eBooks, Tickets, Shop, and Jobs. To the right of the navigation is a search bar with the placeholder "Search on Smashing Magazine". Below the navigation, there's a sidebar with categories: CODING (CSS, HTML, JavaScript Techniques), DESIGN (Web Design, Responsive, Typography Inspiration), MOBILE (iPhone & iPad, Android, Design Patterns), and GRAPHICS (Photoshop, Fireworks, Wallpapers, Freebies). The main content area features an article titled "Transforming Lufthansa's Brand Strategy: From The Online To Interactive Age, A Case Study" by Josip Budzaki, published on February 9th, 2016, with 3 comments. The article discusses brand inconsistency and its extension across various digital channels. To the right of the article, there's a sidebar for the "Smashing Newsletter" which encourages users to subscribe for tips and resources. It also highlights "Smashing Book #5", a book on responsive design, with a thumbnail image and a call to action for free shipping. The overall layout demonstrates how different CSS properties like position, size, and visibility are used to structure the page.

# Nesting Layers

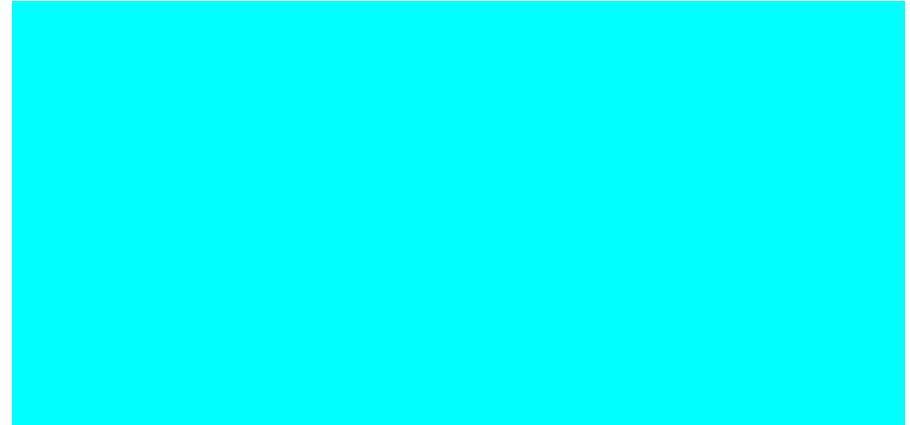
- A nested layer is a layer inside another layer
- Example: 3-level nesting

```
<div>  
  <div>  
    <div>  
      </div>  
    </div>  
  </div>  
</div>
```

The screenshot shows the header of the Smashing Magazine website. It features a red navigation bar with several items: 'Books', 'eBooks', 'Tickets', 'Shop', and 'Jobs'. To the right of the navigation bar is a search bar with the placeholder 'Search on Smashing Magazine' and a red 'Search' button. Below the navigation bar, there's a section titled 'CODING' and a large headline 'Transforming Lufthansa's Brand'.

# Nesting Layers

<div .....>



</div>

# Nesting Layers

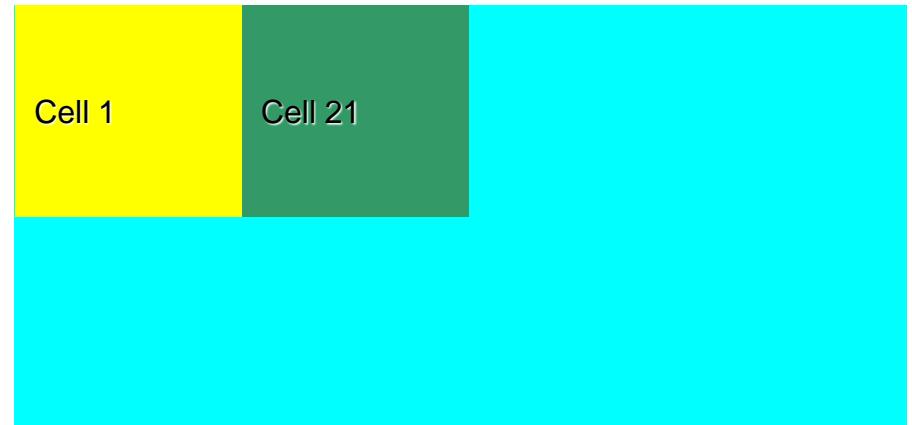
```
<div .....>
```

```
  <div .....><b>Cell 1</b>
  </div>
```

```
</div>
```



# Nesting Layers



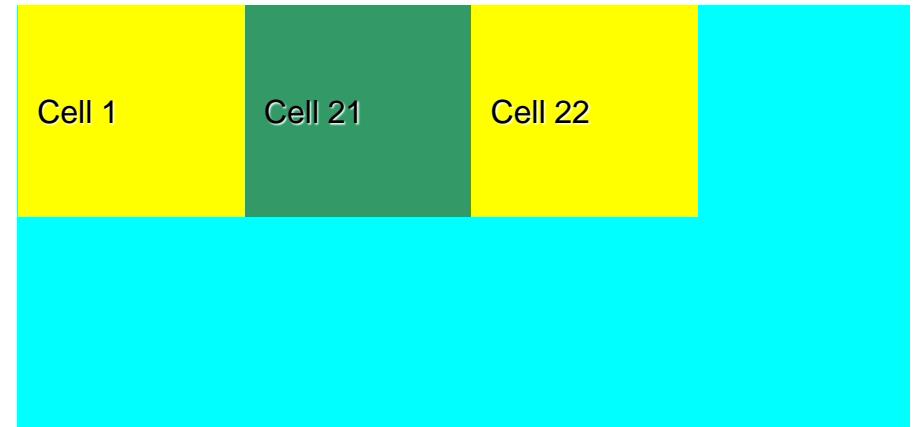
```
<div .....>
```

```
  <div .....><b>Cell 1</b>
  </div>
```

```
<div>
  <div ....."><b>Cell 21</b>
  </div>
```

```
    </div>
</div>
```

# Nesting Layers



```
<div .....>
```

```
  <div .....><b>Cell 1</b>  
  </div>
```

```
<div>
```

```
  <div ....."><b>Cell 21</b>  
  </div>
```

```
    <div .....><b>Cell 22</b>  
    </div>
```

```
  </div>
```

```
</div>
```

**Layer1**

**Layer2**

**Layer3**

**Layer4**

**Layer5**

**Layer6**

**Layer7**

**Layer8**

**Layer9**

**Layer10**

# Layer1

Layer2

Layer3

Layer4

Layer6

Layer7

Layer8

Layer9

Layer10

How can I start coding this page?

*<div>*

*</div>*

# *Layer1*

```
<div>  
<div>Layer 1</div>
```

```
</div>
```

# *Layer1*

## *Layer2*

```
<div>  
  <div>Layer 1</div>  
  <div>Layer 2</div>
```

```
</div>
```

# *Layer1*

## *Layer2*

### *Layer3*

```
<div>  
<div>Layer 1</div>  
<div>Layer 2</div>  
<div>Layer 3</div>
```

```
</div>
```

# *Layer1*

*Layer2*

## *Layer4*

### *Layer3*

```
<div>
  <div>Layer 1</div>
  <div>Layer 2</div>
  <div>Layer 3</div>
  <div>
    Layer 4
  </div>
</div>
```

# **Layer1**

**Layer2**

## **Layer4**

### **Layer3**

```
<div>
  <div>Layer 1</div>
  <div>Layer 2</div>
  <div>Layer 3</div>
  <div>
    Layer 4
    <div>Layer 5</div>
  </div>
</div>
</div>
```

## **Layer5**

# **Layer1**

## **Layer2**

### **Layer3**

### **Layer4**

### **Layer5**

### **Layer6**

```
<div>
  <div>Layer 1</div>
  <div>Layer 2</div>
  <div>Layer 3</div>
  <div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
  </div>
</div>
```

# **Layer1**

## **Layer2**

### **Layer4**

### **Layer3**

### **Layer5**

### **Layer6**

Layer 4

```
<div>  
  <div>Layer 1</div>  
  <div>Layer 2</div>  
  <div>Layer 3</div>  
  <div>  
    Layer 4  
    <div>Layer 5</div>  
    <div>Layer 6</div>  
    <div>Layer 7</div>  
  <div>Layer 7</div>
```

```
</div>  
</div>
```

# **Layer1**

## **Layer2**

### **Layer3**

### **Layer4**

### **Layer5**

### **Layer6**

Layer 4

```
<div>
<div>Layer 1</div>
<div>Layer 2</div>
<div>Layer 3</div>
<div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
<div>Layer 7
    <div>Layer 8</div>
</div>
</div>
```

### **Layer8**

# **Layer1**

## **Layer2**

### **Layer4**

### **Layer3**

```
<div>
  <div>Layer 1</div>
  <div>Layer 2</div>
  <div>Layer 3</div>
  <div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
    <div>Layer 9</div>
  </div>
</div>
```

### **Layer5**

### **Layer6**

### **Layer7**

### **Layer8**

### **Layer9**

# **Layer1**

## **Layer2**

### **Layer4**

#### **Layer3**

```
<div>
<div>Layer 1</div>
<div>Layer 2</div>
<div>Layer 3</div>
<div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
    <div>Layer 9</div>
    <div>Layer 10</div>
</div>
</div>
```

### **Layer5**

### **Layer6**

7

### **Layer8**

### **Layer9**

### **Layer10**



# & divs

- The use of the tag `<div>` is reduced considerably in HTML5.

# HTML Layout Elements



# HTML Layout Elements

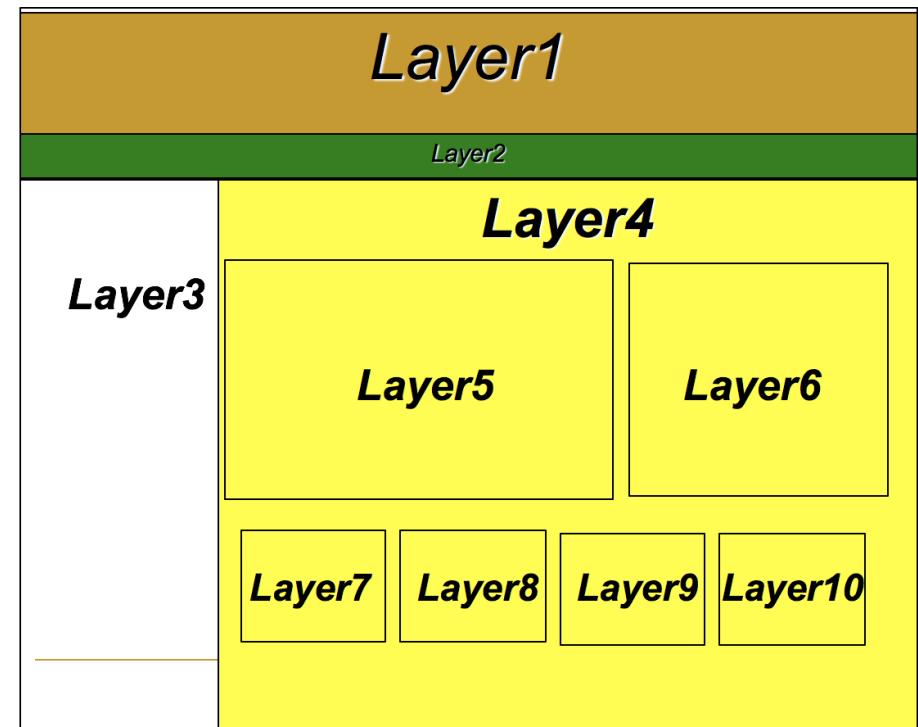
- **<header>** - defines a header for a document or a section
- **<nav>** - defines a container for navigation links
- **<section>** - defines a section in a document
- **<article>** - defines an independent self-contained article
- **<aside>** - defines content aside from the content (like a sidebar)
- **<footer>** - defines a footer for a document or a section.

# HTML Layout Elements

- **<details>** - defines additional details
- **<summary>** - defines a heading for the **<details>** element
- **<main>** - specifies the main content of a document
- **<mark>** - defines marked/highlighted text
- **<time>** - defines a date/time

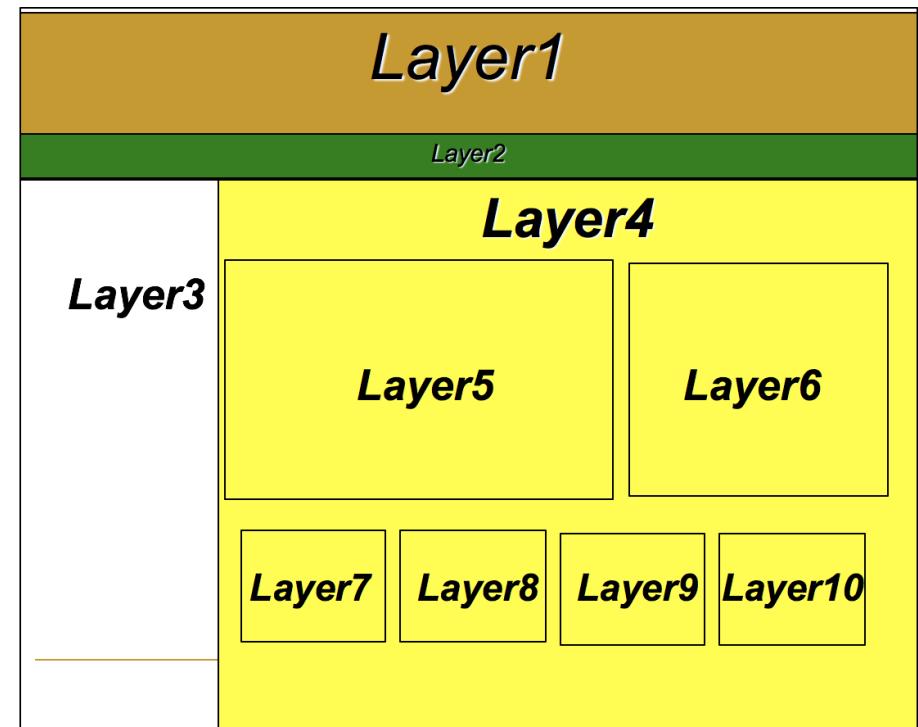
# How can I use these new tags?

```
<div>
  <div>Layer 1</div>
  <div>Layer 2</div>
  <div>Layer 3</div>
  <div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
    <div>Layer 9</div>
    <div>Layer 10</div>
  </div>
</div>
```



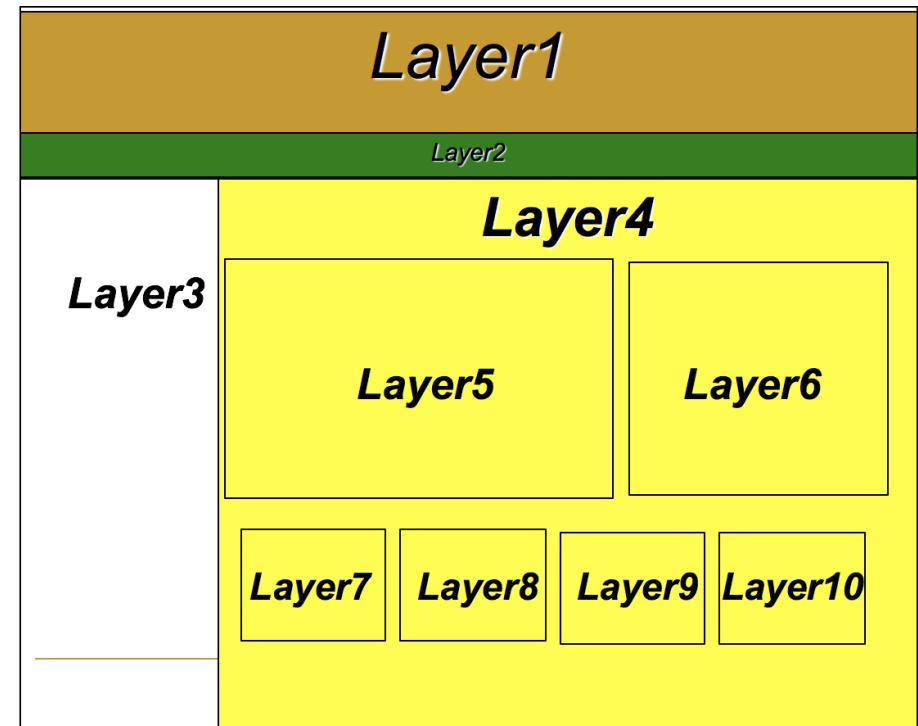
# How can I use these new tags?

```
<div>
  <header>Layer 1</header>
  <div>Layer 2</div>
  <div>Layer 3</div>
  <div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
    <div>Layer 9</div>
    <div>Layer 10</div>
  </div>
</div>
```



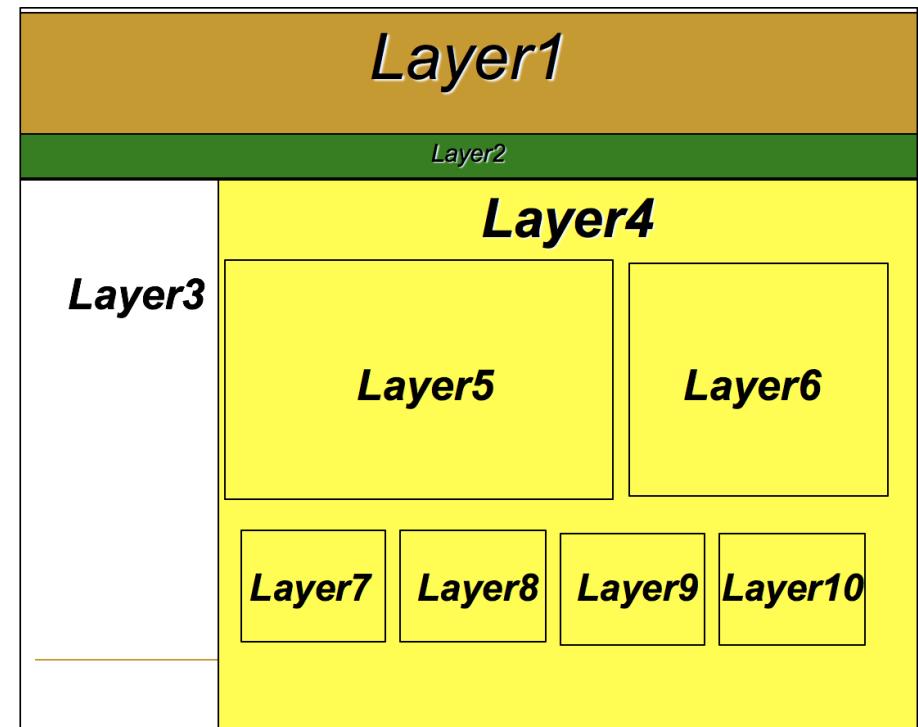
# How can I use these new tags?

```
<div>
  <header>Layer 1</header>
  <nav>Layer 2</nav>
  <div>Layer 3</div>
  <div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
    <div>Layer 9</div>
    <div>Layer 10</div>
  </div>
</div>
```



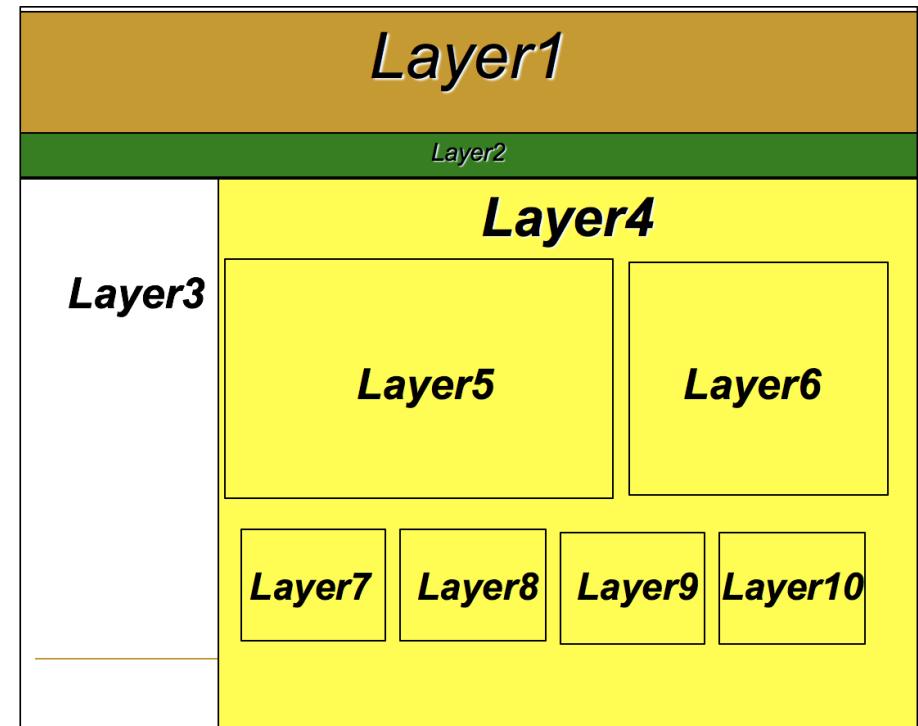
# How can I use these new tags?

```
<div>
  <header>Layer 1</header>
  <nav>Layer 2</nav>
  <aside>Layer 3</aside>
  <div>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
    <div>Layer 9</div>
    <div>Layer 10</div>
  </div>
</div>
```



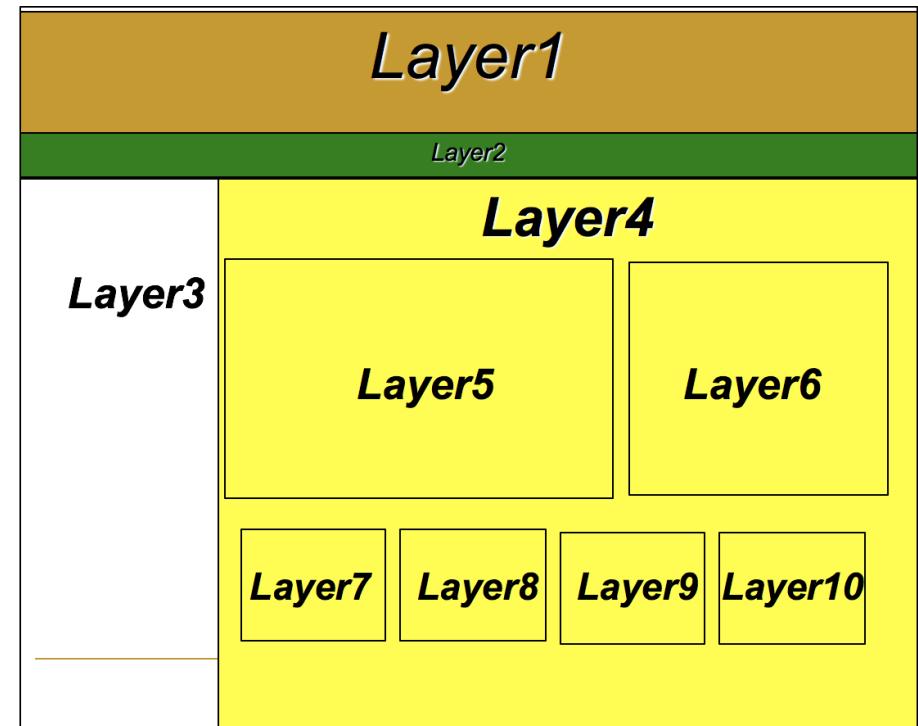
# How can I use these new tags?

```
<div>
  <header>Layer 1</header>
  <nav>Layer 2</nav>
  <aside>Layer 3</aside>
  <main>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <div>Layer 7</div>
    <div>Layer 8</div>
    <div>Layer 9</div>
    <div>Layer 10</div>
  </main>
</div>
```



# How can I use these new tags?

```
<div>
  <header>Layer 1</header>
  <nav>Layer 2</nav>
  <aside>Layer 3</aside>
  <main>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <article>Layer 7</article>
    <article>Layer 8</article>
    <article>Layer 9</article>
    <article>Layer 10</article>
  </main>
</div>
```

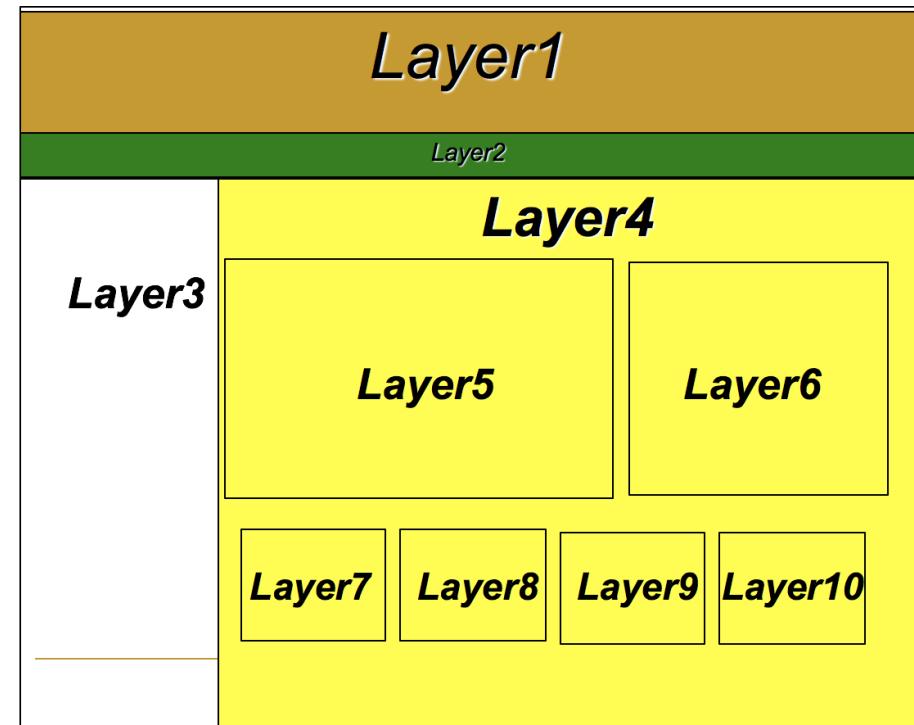


# Formatting Via Layers

- Formatting via layers is based on the idea of nesting layers
- Each layer can be viewed as an independent region that can hold any HTML content
- The web page is divided into regions according to its layout
- Each region is then substituted by a layer

# Nesting Layers

```
<div>
  <header>Layer 1</header>
  <nav>Layer 2</nav>
  <aside>Layer 3</aside>
  <main>
    Layer 4
    <div>Layer 5</div>
    <div>Layer 6</div>
    <article>Layer 7</article>
    <article>Layer 8</article>
    <article>Layer 9</article>
    <article>Layer 10</article>
  </main>
</div>
```



```
<table></table>  
<tr></tr>  
<td></td>
```

# Tables

```
<table><tr><td></td></tr></table>
```

## Description:

```
<table> <tr><td>...</td><td>...</td>  
</tr></table>
```

## Implementation:

```
<table> <tr><td>Cell 1</td><td>Cell 2</td>  
</tr></table>
```

## Output:

---

Cell 1	Cell 2
--------	--------

# Table

- Tables are used on Web pages primarily to organise information
- Tables should not be used for full page layout

# Tables

- A **table** is defined as a region that has rows and columns of small rectangles, called cells, that are arranged relative to each other in a certain way that makes up the table layout

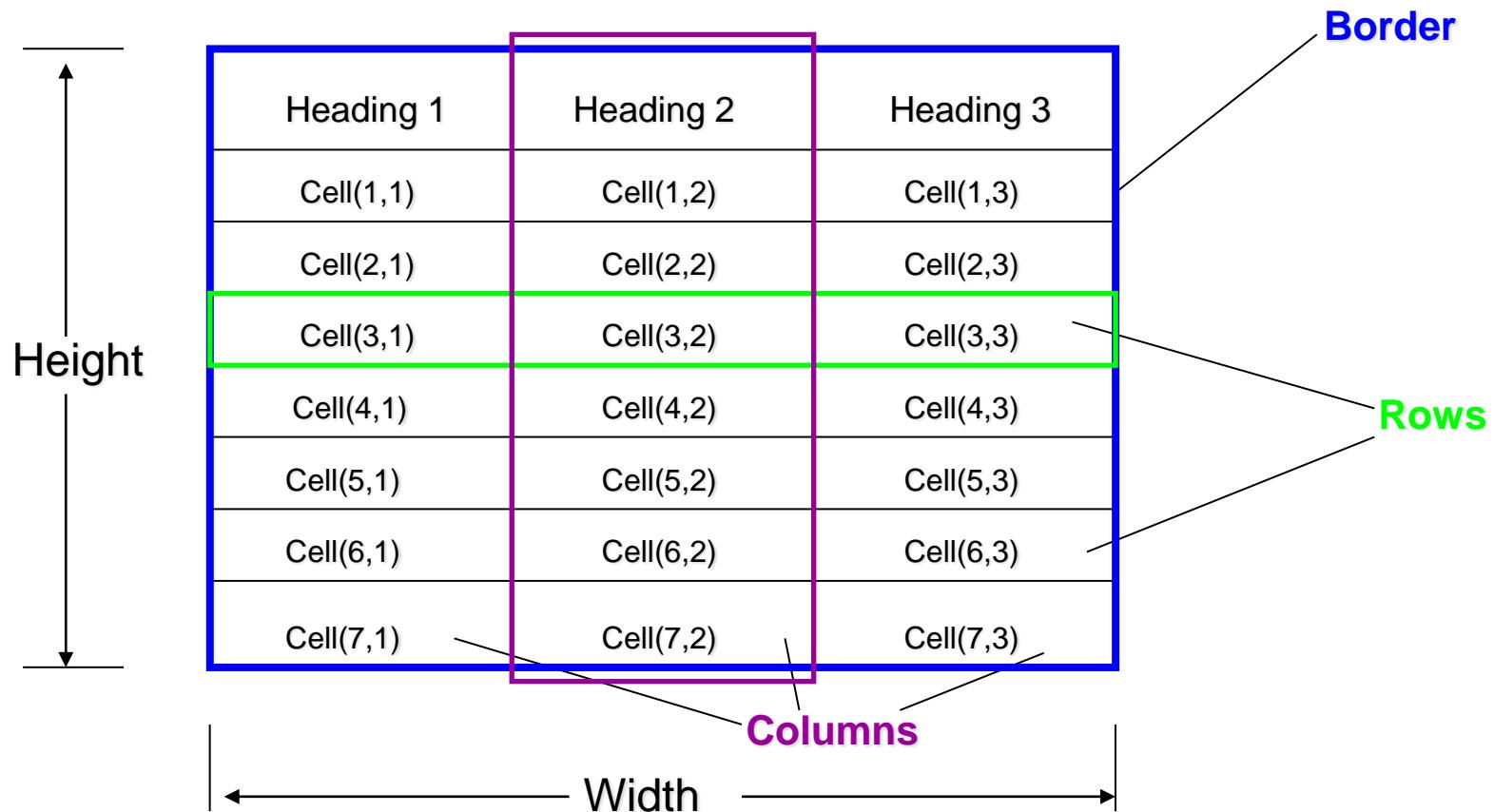
# Tables Structure & Variables

- HTML provide many variables that allow web authors to control table structure
- Table variables may be grouped into 2 categories:
  - Non-cell variables
  - Cell variables

# Non Cell Variables

- **Non cell variables** control the properties and structure of the table, not the actual contents of the table:
  - **caption** is the title of the table
  - **summary** provides a longer description
  - **border** is the table's outside border
  - **header** is the first row of the table
  - **rows** are the horizontal layout of the cells
  - **columns** are the vertical layout of the cells
  - **width** is a representation of the number of columns
  - **height** is a representation of the number of rows

# Non Cell Variables



# Cell Variables

- **Cells** are the basic units that make up the table
- Cell variables control the properties and structure of individual cells:
  - Row span
  - Column span
  - Padding
  - Spacing
  - Alignment

# Cell Variable: colspan

```
<table border="1">  
  <tr>  
  
  </tr>  
  <tr>  
  
  </tr>  
  <tr>  
  
  </tr>  
  </table>
```


# Cell Variable: colspan

```
<table border="1">
  <tr>
    </tr>
    <tr>
      <td>James</td>
      <td>11/08</td>
    </tr>
    <tr>
      <td>Karen</td>
      <td>4/17</td>
    </tr>
  </table>
```

James	11/08
Karen	4/17

# Cell Variable: colspan

```
<table border="1">
  <tr>
    <td colspan="2">
      Birthday List</td>
  </tr>
  <tr>
    <td>James</td>
    <td>11/08</td>
  </tr>
  <tr>
    <td>Karen</td>
    <td>4/17</td>
  </tr>
</table>
```

Birthday List	
James	11/08
Karen	4/17

# Cell Variable: rowspan

```
<table border="1">  
  <tr>  
  
  </tr>  
  <tr>  
  
  </tr>  
  </table>
```


# Cell Variable: rowspan

```
<table border="1">  
  <tr>  
    <td>      </td>  
    <td>James</td>  
  </tr>  
  <tr>  
  </tr>  
</table>
```

	James

# Cell Variable: rowspan

```
<table border="1">  
  <tr>  
    <td rowspan = "2">          </td>  
    <td>James</td>  
  </tr>  
  <tr>  
    </tr>  
  </table>
```

	James

# Cell Variable: rowspan

```
<table border="1">
<tr>
<td rowspan="2">

<td>James</td>
</tr>
<tr>
<td>11/08</td>
</tr>
</table>
```

	James
	11/08

# Cell Variables

- **Cell spacing** describes the amount of the horizontal and vertical spacing between cells
- Specifying **cell padding** is equivalent to specifying top, bottom, left and right margins for the cell
- Cell content can be **aligned** within each cell

# Using Tables (some tags)

- **<table>** tag
  - Contains the table
  - Common attributes: border, width, align
- **<tr>** tag
  - Contains a table row
- **<td>** tag
  - Contains a table cell
- **<caption>** tag
  - Assigns a title to a table

# Using Tables

```
<table border="1">  
  <tr>  
    <td>Name</td>  
    <td>Birthday</td>  
  </tr>  
  <tr>  
    <td>James</td>  
    <td>11/08</td>  
  </tr>  
  <tr>  
    <td>Karen</td>  
    <td>4/17</td>  
  </tr>  
  <tr>  
    <td>Sparky</td>  
    <td>11/28</td>  
  </tr>  
</table>
```

*4 rows*

Name	Birthday
James	11/08
Karen	4/17
Sparky	11/28

# Using Tables

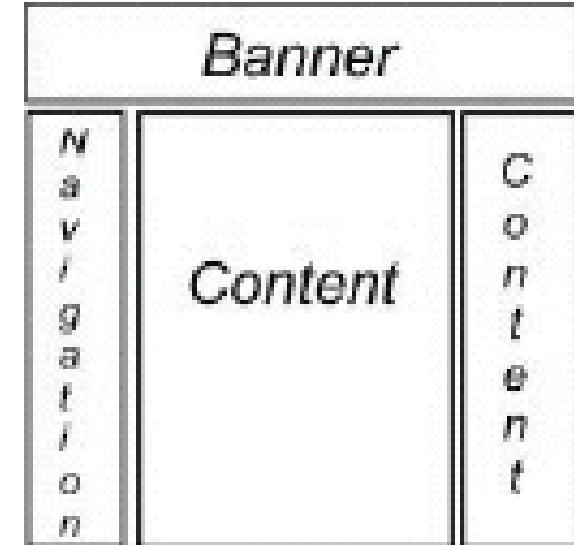
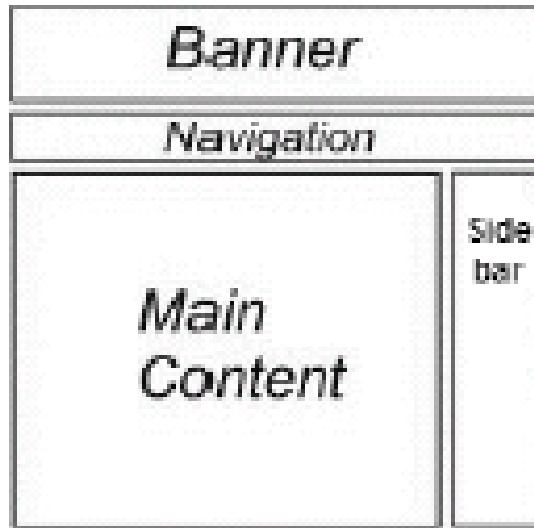
```
<table border="1">
<tr>
<th>Name</th>
<th>Birthday</th>
</tr>
<tr>
<td>James</td>
<td>11/08</td>
</tr>
<tr>
<td>Karen</td>
<td>4/17</td>
</tr>
<tr>
<td>Sparky</td>
<td>11/28</td>
</tr>
</table>
```

Using the `<th>` Element

Name	Birthday
James	11/08
Karen	4/17
Sparky	11/28

# Additional Table Layouts

*Can you write the code for these 2 tables?*



# Layers & Tables

- Layers are simple to use and less restrictive
- Layer nesting is simpler than table nesting
- Tables use 5 tags for hierarchical structure whereas Layer just uses 1 tag for everything
- Layers provide better control over formatting and layout

# <iframe>

# Frames

# Frames

- **Frames** divide a browser window into regions, with each region having its own web page

# Are Frames used?

- Frames are obsolete in HTML5
- Frames are not encouraged in XHTML
- iFrames are used in both XHTML & HTML5

# **<iframe></iframe>**

**Description:**

**<iframe ...../>**

**Implementation:**

**<iframe src=“demo\_iframe.htm”></iframe>**

**Output:**

**This page is  
displayed in an  
iframe**

# Using iFrames

- The `<iframes>` tag creates inline frames
- An **inline frame** is a frame that is embedded inside the content of a Web page

# Using iFrames

- **<iframe>** - Creates an inline frame
  - Attributes : name, src, width, height, sandbox, srcdoc

# Example Uses of iFrames

- Google AdSense



- Embedded Youtubes





# & iframes

## ■ New attributes are (from w3schools):

<u>sandbox</u>	New	"" allow-forms allow-same-origin allow-scripts allow-top-navigation	Enables a set of extra restrictions for the content in the <iframe>
<u>seamless</u>	New	seamless	Specifies that the <iframe> should look like it is a part of the containing document
<u>srcdoc</u>	New	HTML_code	Specifies the HTML content of the page to show in the <iframe>

# Iframes

- Write the code for an iframe using  
<http://dit.ie/>
- Set the width to be 300 pixels.



# & frames

- Frames are deprecated

# References

- Terry Felke-Morris (2013), *Web Development and Design Foundations with HTML*
- Steven M. Schafer (2005), *HTML, CSS, JavaScript, Perl, and PHP Programmer's Reference*, Hungry Minds Inc,U.S.
- Ibrahim Zeid (2004), *Mastering the Internet, XHTML, and Javascript*