MOAT ACADEMY WEB APPLICATION DEVELOPMENT TRAINING

CSS Positioning and Practical Applications – Day 4

CSS GRADIENT PROPERTY

CSS GRADIENT

In place of background image, CSS gradients let you display smooth transitions between two or more specified colors.

CSS defines three types of gradients:

- Linear Gradients (goes down/up/left/right/diagonally)
- Radial Gradients (defined by their center)
- Conic Gradients

CSS LINEAR GRADIENT

To create a linear gradient you must define at least two color stops. Color stops are the colors you want to render smooth transitions among. You can also set a starting point and a direction (or an angle) along with the gradient effect.

Syntax:

```
background: linear-gradient(direction, color-stop1, color-stop2, ...);
background: radial-gradient(shape, color1 N%, color2 Y%,...)

Example:

#grad {
background: linear-gradient(to right, red , yellow); /*left to right*/
}
background: linear-gradient(to bottom right, red, yellow); /*diagonal*/
background: linear-gradient(45deg, red, yellow); /*angle*/ (may be -ve)
background: linear-gradient(to right, rgba(255,0,0,0), rgba(255,0,0,1)); /*transparent colors*/
background: radial-gradient(circle | ellipse, red, blue, yellow );
```

See Facebook background: a solid blue div on top of a blullage div, linear gradient can be used to adrieve the blullage bg, linear-gradient (to top, blue) to adrieve the blullage bg, linear-gradient (to top, blue) to adrieve the blullage bg, linear-gradient (to top, blue) to adrieve the blullage bg, linear-gradient (to top, blue) to adrieve the blullage bg, linear-gradient (to top, blue) to adrieve the blullage bg, linear-gradient (to top, blue) to adrieve the blullage bg, linear-gradient (to top, blue) to adrieve the blullage bg, linear-gradient (to top) to adrieve the blullage bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue) to adrieve the blue bg, linear-gradient (to top) blue bg, linear-gradient (to



Other Applications of Linear Gradient: Adding gradient on top of a background image

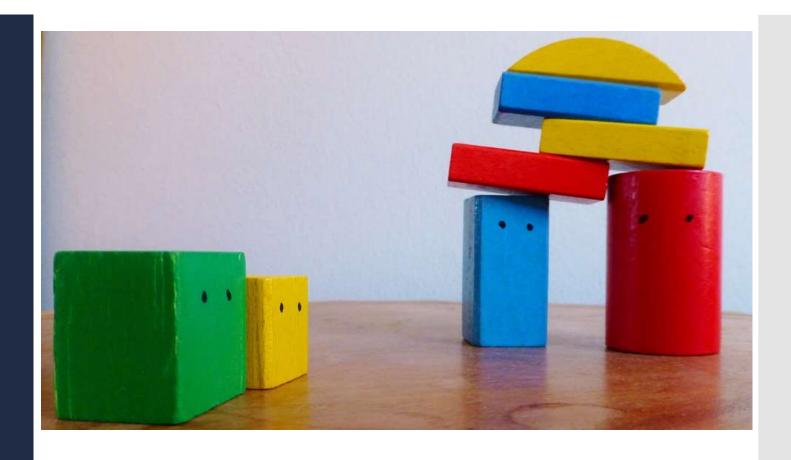
- To add a semi opaque/semi transparent colour gradient that goes on top of the background image, you need not introduce a second div. Simply add linear gradient to the same div carrying the background image as follows:
- A simpler method is to use background image with gradient.

```
#banner{
    background-image:
    linear-gradient(to bottom,
rgba(o,o,o, o.52), rgba(10,10,30,
    o.73)),url('banner.jpg');
    height: 300px;
    background-size: cover;
}
```

CSS DIV and Other Semantic Elements

Elements whose functions are *self-explanatory*

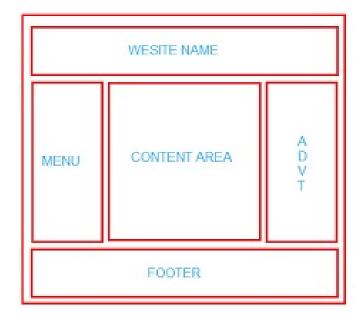
CSS DIV



CSS DIV

Consider the layout shown:

- The boxes, just like *lego* blocks can be put together to form a complete website.
- The parents of boxes which sit side by side are **flex'ed**.
- This layout is also known as the wireframe for your website.
- It is a good idea to use meaningful names for your classes and id"s for better SEO

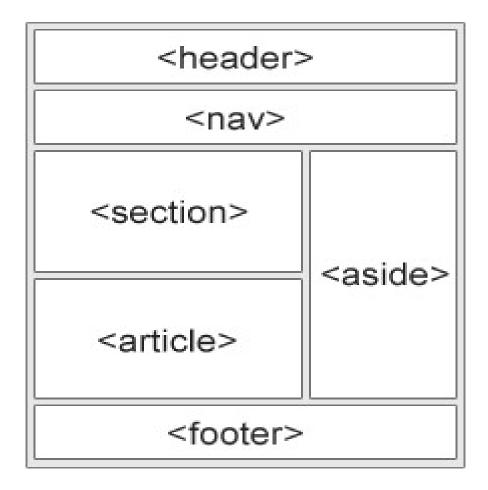


Semantic Elements

- The div is a generic block-level element that can be used to group web contents
- A semantic element describes its meaning to both the browser and the developer. They describe the structure of a web document in a standard way thus making browsers and assistive technologies understand the page better.

HTML Navigational Element (<nav>)</nav>	defines a section that contains navigation links that appear often on a site. You can have primary and secondary menus, but you never nest, or put a <nav> element inside a <nav> element.</nav></nav>
HTML Article Element	defines a piece of self-contained content. It does not refer to the main content alone and can be
(<article>) HTML Section Element</article>	used for comments and widgets. defines a section of a document to indicate a related grouping of semantic meaning.
(<section>)</section>	defines a section of a document to indicate a related grouping of semantic meaning.
NOTE: Articles can be nested inside of sections and sections can be nested inside of articles.	
HTML Aside Element (<aside>)</aside>	defines a section that, though related to the main element, but has a different placement than the main content, like an explanation box, definition or an advertisement. It has its own outline, but doesn't belong to the main one. The <aside> element is often used for sidebars containing extra, but relevant, information</aside>
HTML Header Element (<header>)</header>	defines the part of a page which typically contains the logo, title, and navigation. The header can also be used in other semantic elements such as <article> or <section> — or section header, containing perhaps the section's heading, author name, etc. <a href="mailto:<article>"> <article>"> <article>"> <aside>"> <aside>"> <and <a="" href="mailto:<article>"> <aside>"> <aside>"></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></aside></and></aside></aside></article></article></section></article>
HTML Footer Element (<footer>)</footer>	defines a page footer which typically contains the copyright, legal notices and sometimes some links — or section footer, containing perhaps the section's publication date, license information, etc.

Semantic Elements

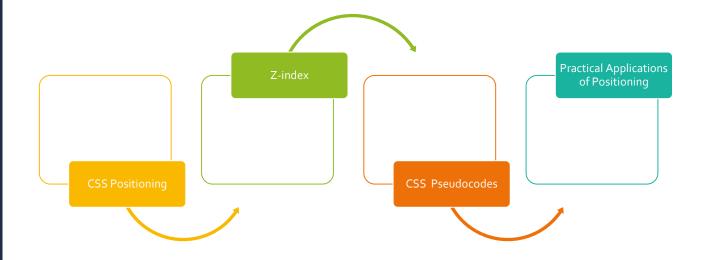


Designing for older browsers

- Unknown elements are styled as display: inline by default, so you'll want to set them to display: block:
- See example:

```
article, aside, footer, header, nav, section {
  display: block;
}
```

CLASS OUTLINE



CSS POSITIONING

Positioning rules

- Sometimes you just want an element to appear at a particular distance from the edges.
- You can then specify to the elements where on the page they should appear. (top, bottom, left, or right)
- But first, you determine the kind of positioning rule the element(s) should obey through the positioning property**
- This specifies how the elements of the webpage should be placed, values may be fixed, static, relative, absolute or sticky

Setting the Positioning

- **Static**: This is the default, if an element is not positioned explicitly, then its statically positioned.
- **Relative**: relative to its "normal" position, other contents will not take any gap left by it.
- **Fixed**: relative to the viewport, which means it always stays in the same place even if the page is scrolled. Does not leave gap in the page where it would have been created.
- Absolute: positioned relative to the nearest positioned parent, if no parent, uses the body

Sticky Positioning

- A stickily positioned element is treated as relatively positioned until it crosses a specified threshold, at which point it is treated as fixed until it reaches the boundary of its parent.
- Sticky positioning can be thought of as a hybrid of relative and fixed positioning.
- You must specify a threshold* with at least one of top, right, bottom, or left for sticky positioning to behave as expected. Otherwise, it will be indistinguishable from relative positioning.

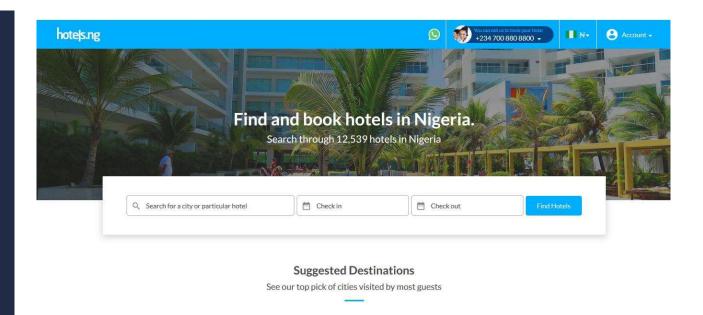
```
#one { position: sticky; top: 10px; }
```



Sticky Positioning in Practice

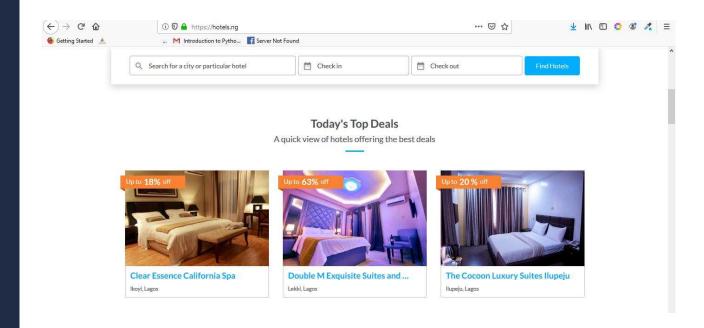
Notice the black background before the sticky menu, it ensures that we scroll the page up to the point specified before the menu becomes fixed

Sticky Positioning in Practice



Notice that the search box is at some distance from the top of the page

Sticky Positioning in Practice



Onscroling the page, when the search box gets to a distance of 0p from the top From the viewport, it becomes fixed

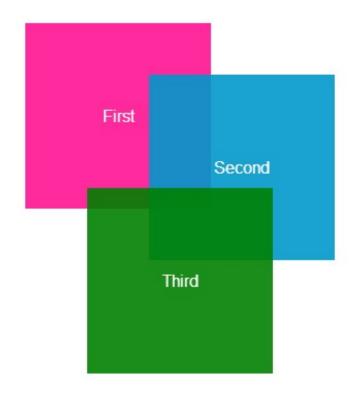
Notes on Positioning

- If both top and bottom are specified (technically, not auto), top wins.
- If both left and right are specified, left wins when direction is ltr (English, horizontal Japanese, etc.) and right wins when direction is rtl (Persian, Arabic, Hebrew, etc.)

The z-index

- Specifies the stack order of an element (when placed on top of each other)
- •! Remember that an element is placed on top of each other by positioning them so
- An element can have negative or positive z-index value.
- The element with a higher z-index comes on top of the others
- The element must be positioned before it can respond to z-index;
- Practical Application: Drop-down menu.

Achieve the stack shown using positioning: Hint: z-index, positioning



Hint: Position the elements such that they almost appear in the same location. Then use z-index to arrange them, baby pink: rgb(244,194,194)

HANDSON

Assignment: Google Interface







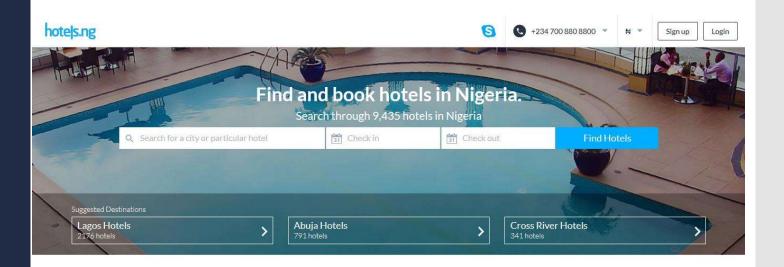


Google Search

I'm Feeling Lucky

Google.com.ng offered in: Hausa Igbo Edè Yorùbá Pidgin

Search Bar with Background



Today's Top Deals

Fixed Social Media Side Bar

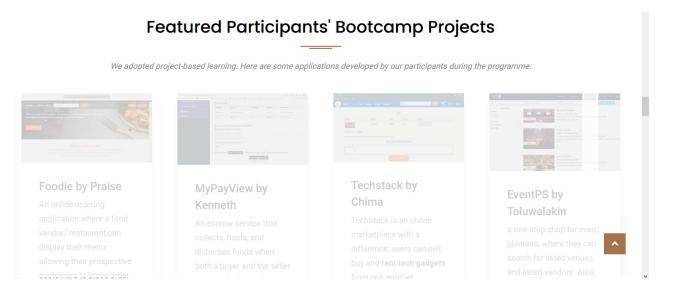








Fixed Navigation: "Go To Top" as seen on Moat Academy Website



The Live Chat I con is not moving whate page as its crols...

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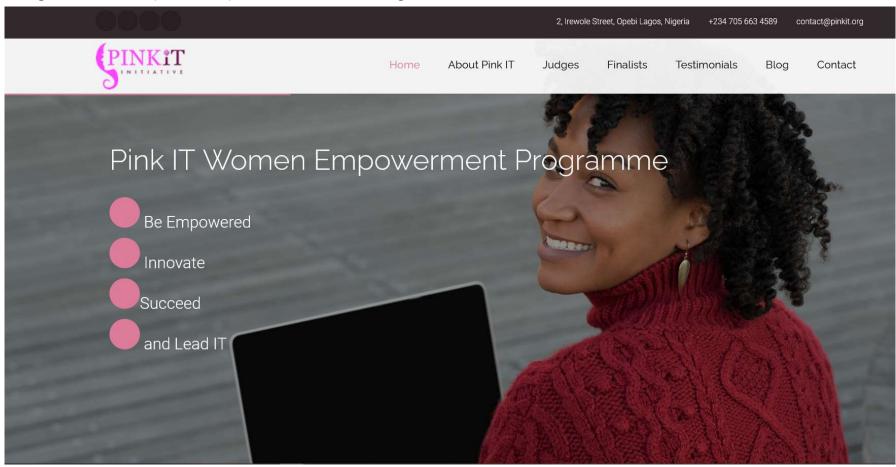




Collapsible Header



ASSIGNMENT: Replicate something similar to the banner below: Let the menu be stick'ily positioned, set height of the body to 1000px to achieve scrolling





Start by doing what's necessary, then what's possible, and suddenly you are doing the impossible. ~ Francis of Assisi