Chapter 23: Layout Control

Value	Effect
none	Hide the element and prevent it from occupying space.
block	Block element, occupy 100% of the available width, break after element.
inline	Inline element, occupy no width, no break after element.
inline-block	Taking special properties from both inline and block elements, no break, but can have width.
inline-flex	Displays an element as an inline-level flex container.
inline-table	The element is displayed as an inline-level table.
grid	Behaves like a block element and lays out its content according to the grid model.
flex	Behaves like a block element and lays out its content according to the flexbox model.
inherit	Inherit the value from the parent element.
initial	Reset the value to the default value taken from behaviors described in the HTML specifications or from the browser/user default stylesheet.
table	Behaves like the HTML table element.
table-cell	Let the element behave like a <td> element
table-column	Let the element behave like a <col> element
table-row	Let the element behave like a <tr> element
list-item	Let the element behave like a element.

Section 23.1: The display property

The display CSS property is fundamental for controlling the layout and flow of an HTML document. Most elements have a default display value of either block or inline (though some elements have other default values).

Inline

An inline element occupies only as much width as necessary. It stacks horizontally with other elements of the same type and may not contain other non-inline elements.

```
<span>This is some <b>bolded</b> text!</span>
```

This is some **bolded** text!

As demonstrated above, two inline elements, <span> and <b>, are in-line (hence the name) and do not break the flow of the text.

Block

A block element occupies the maximum available width of its' parent element. It starts with a new line and, in contrast to inline elements, it does not restrict the type of elements it may contain.

```
<div>Hello world!</div><div>This is an example!</div>
```

Hello world!
This is an example!

The div element is block-level by default, and as shown above, the two block elements are vertically stacked and, unlike the inline elements, the flow of the text breaks.

Inline Block

The inline-block value gives us the best of both worlds: it blends the element in with the flow of the text while allowing us to use padding, margin, height and similar properties which have no visible effect on inline elements.

Elements with this display value act as if they were regular text and as a result are affected by rules controlling the flow of text such as text-align. By default they are also shrunk to the the smallest size possible to accommodate their content.

```
<!--Inline: unordered list-->
<style>
li {
    display : inline; background
    : lightblue; padding:10px;

    border-width:2px;
    border-color:black;
    border-style:solid;
    }
</style>

<ul>
<li>First Element </li>
<li>Second Element </li>
<li>Third Element </li>
</ul>
```

First Element	Second Element	Third Element

```
<!--block: unordered list-->
<style>
li {
    display : block;
    background : lightblue;
    padding:10px;

    border-width:2px;
    border-color:black;
    border-style:solid;
    }
</style>

<ul>
<li>First Element </li>
<li>Second Element </li>
<li>Third Element </li>
</ul>
```

First Element
Second Element
Third Element

```
<!--Inline-block: unordered list-->
<style>
li {
    display  :  inline-block;
    background  :  lightblue;
    padding:10px;

    border-width:2px;
    border-color:black;
    border-style:solid;
    }

</style>

<ul>
<li>First Element </li>
<li>Second Element </li>
<li>Third Element </li>
</ul>
```
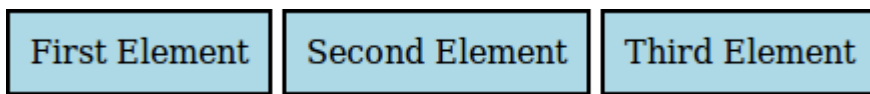
First Element	Second Element	Third Element

none

An element that is given the none value to its display property will not be displayed at all.

For example let's create a div-element that has an id of $myDiv$:

```
<div id="myDiv"></div>
```

This can now be marked as not being displayed by the following CSS rule:

```
#myDiv {
    display: none;
}
```

When an element has been set to be **display**:none; the browser ignores every other layout property for that specific element (both $position$ and $float$). No box will be rendered for that element and its existence in html does not affect the position of following elements.

Note that this is different from setting the $visibility$ property to hidden. Setting **visibility**: hidden; for an element would not display the element on the page but the element would still take up the space in the rendering process as if it would be visible. This will therefore affect how following elements are displayed on the page.

The none value for the display property is commonly used along with JavaScript to show or hide elements at will, eliminating the need to actually delete and re-create them.

Section 23.2: To get old table structure using div

This is the normal HTML table structure

```
<style>
    table {
        width: 100%;
    }
```

```
</style>

<table>
    <tr>
        <td>
            I'm  a  table
        </td>
    </tr>
</table>
```

You can do same implementation like this

```
<style>
    .table-div  {
        display: table;
    }
    .table-row-div  { display:
        table-row;
    }
    .table-cell-div  {
        display: table-cell;
    }
</style>

<div class="table-div">
    <div  class="table-row-div">
        <div  class="table-cell-div"> I
            behave  like  a  table  now
        </div>
    </div>
</div>
```