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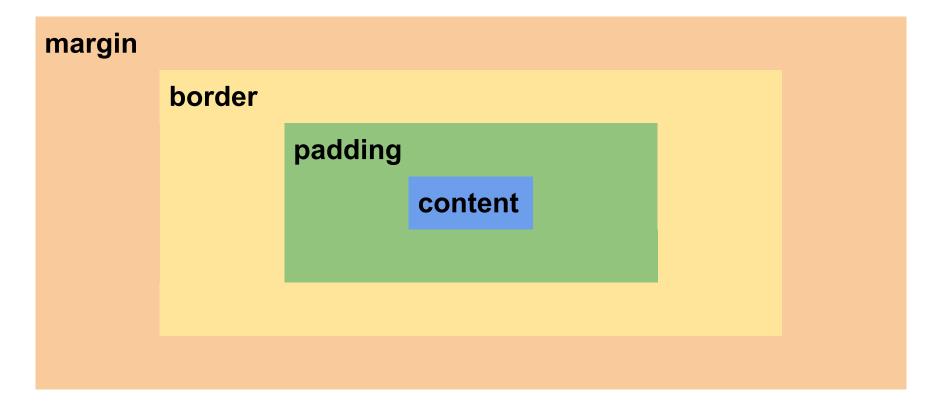
Block vs inline elements

- Elements can render inline or as blocks
- Block element
 - widths expand to parent's and height depends on content
 - add vertical break
 - e.g., heading, paragraph, divs
- Inline element
 - width and height depends on content
 - flow with the rest of neighboring content
 - wrap when they don't fit on parent's width
 - e.g., normal text, span, input, button

Box model

All HTML content is rendered using the policies defined by the box model

Defines area content occupies on screen and how it relates to other content



Styling the box model

- CSS properties margin, border, padding, width, and height control the box look and feel
 - Margin configures the space between boxes
 - Border configures border thickness, color, and style (dotted, dashed, etc.)
 - Padding configures the space between the content and the border
 - Width and height configure the width and height of the content
 - Actual width and height is combination of all above

Block vs Inline Elements Example

Consider the following HTML snippet

<h1>Block vs inline elements</h1>

Headings and paragraphs are block elements. Width is parent's width

Normal text renders inline

<

Span elements

Block vs inline elements

Headings and paragraphs are block elements. Width is parent's width

Normal text renders inline

Span elements render inline with the rest of the content

render inline with the rest of the content

Let's add some colors

```
elements
<h1 style="
  background-color: yellow">
  Block vs inline elements
                                     Headings and paragraphs are block
</h1>
                                    elements. Width is parent's width
<p style="
  background-color: blue;
                                    Normal text renders inline
  color:white;">
                                    Span elements render inline with
 Headings ... width
                                    the rest of the content
Normal text renders inline
<br/><br/><
<span style="
  background-color: red;color:white;">Span elements</span>
<span style="
  background-color: red;color:white;">render inline</span>
with the rest of the content
```

Block vs inline

Styling borders

```
<span style="</pre>
  background-color: red;
  color: white;
  border-style: solid;
  border-width: 10px;
  border-color: green;">
    Span elements
<span style="</pre>
  background-color: red;
  color: white;
  border: solid 10px green;">
    render inline
```

Block vs inline elements

Headings and paragraphs are block elements. Width is parent's width

Normal text renders inline

Span elements render inline with the rest of the content

Styling margins

Margins add spacing between elements Note space all around paragraph and between span elements

```
margin: 10px;
 background-color: blue;
 color:white; ">Headings...
```

Block vs inline elements

Headings and paragraphs are block elements. Width is parent's width

Normal text renders inline

```
<span style=" ...</pre>
  margin-right: 10px;">
    Span elements</span>
<span ... >render inline</span>
```

render inline the rest of the content

Styling padding

Padding adds space around the content, but within the border

Note new space in paragraph and spans

```
padding: 10px
```

background-color: blue;

color:white;">Headings...

Block vs inline elements

Headings and paragraphs are block elements. Width is parent's width

Normal text renders inline

Span elements

render inline

ne rest of the content

```
<span style=" ...</pre>
  padding-left: 10px;
  padding-top: 10px;">
    Span elements</span>
<span ... >render inline</span>
```

Border Colors, Widths and Styles

```
 Solid fat red border
 Dashed thin blue border
```

```
.border-fat { border-width: 20px 30px 20px 30px; }
.border-thin { border-width: 4px; }
.border-dashed { border-style: dashed; }
.border-yellow { border-color: #ffff07; }
.border-red { border-color: #ff7070; }
.border-blue { border-color: #7070ff; }
```

Solid fat red border

Dashed thin blue border

Padding Top Left

```
index.html
<h2>Padding</h2>
<div class="padded-top-left border-fat border-red border-solid bg-color-yellow">
  Padded top left
</div>
                          Padding
index.css
.padded-top-left {
  padding-top: 50px;
  padding-left: 50px;
                                   Padded top left
```

Padding Bottom Right

```
index.html
<div class="padded-bottom-right border-fat border-blue"</pre>
             border-solid bg-color-yellow">
  Padded bottom right</div>
index.css
                               Padded bottom right
.padded-bottom-right {
  padding-bottom: 50px;
  padding-right: 50px;
```

Padding All Around

index.html

<div class="padding-fat border-fat border-yellow border-solid bg-color-blue fg-color-white">Padded all around</div>

```
index.css
.padding-fat {
    padding: 50px;
}
```

Padded all around

Rounded Corners

```
index.html
<h3>Rounded corners</h3>
border-blue border-solid padding-fat">
 Rounded corners on the top
index.css
.rounded-corners-top {
  border-top-left-radius: 40px;
  border-top-right-radius: 40px;
```

Rounded corners

Rounded corners on the top

Different Rounded Corners

```
index.html
border-solid padding-fat">
 Different rounded corners
index.css
.rounded-corners-inline {
 border-radius: 30px 0px 20px 50px;
                                Different rounded corners
```