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CSS Box Model

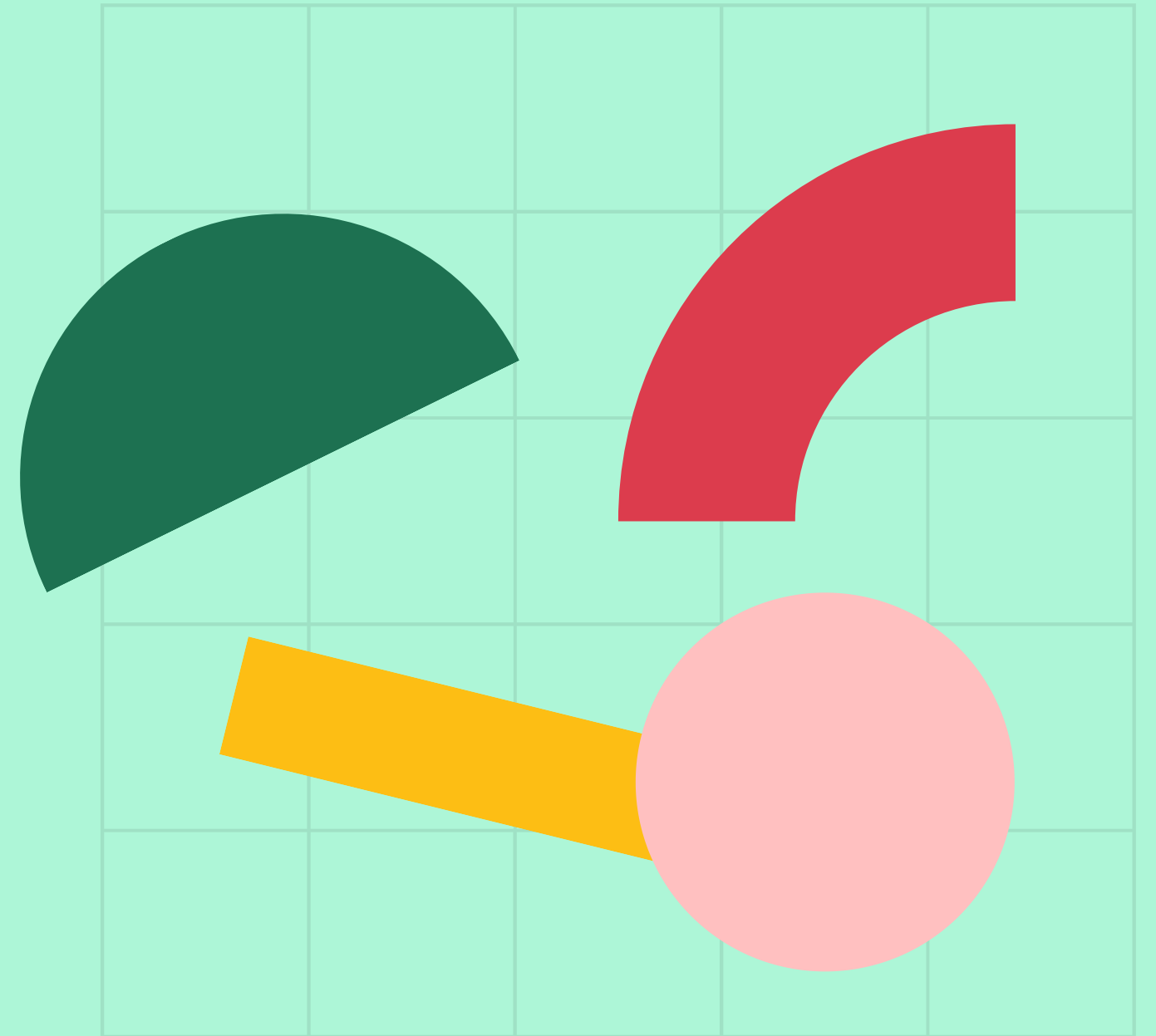
Course for Beginners



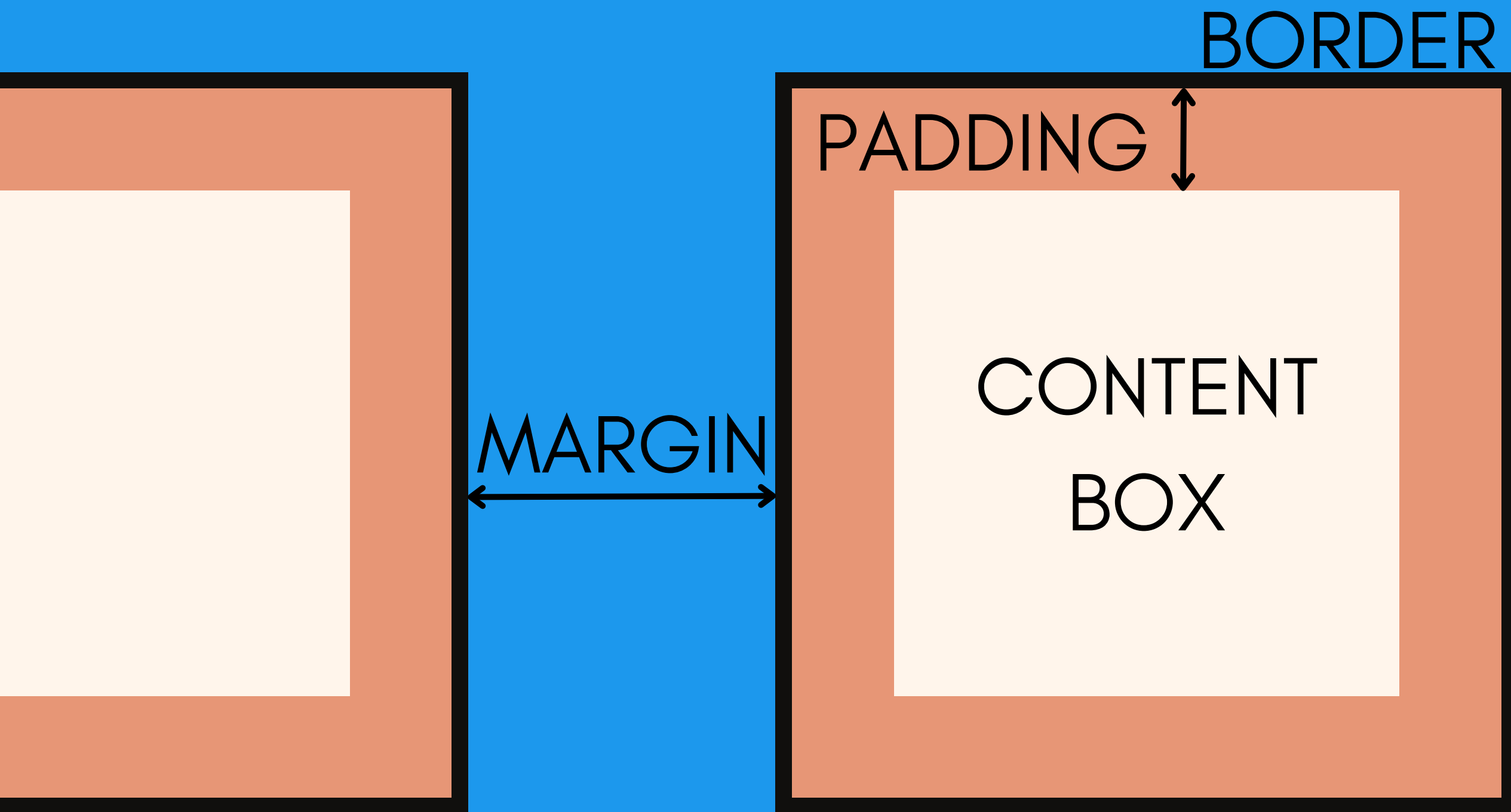
Unit Goals

what we'll cover

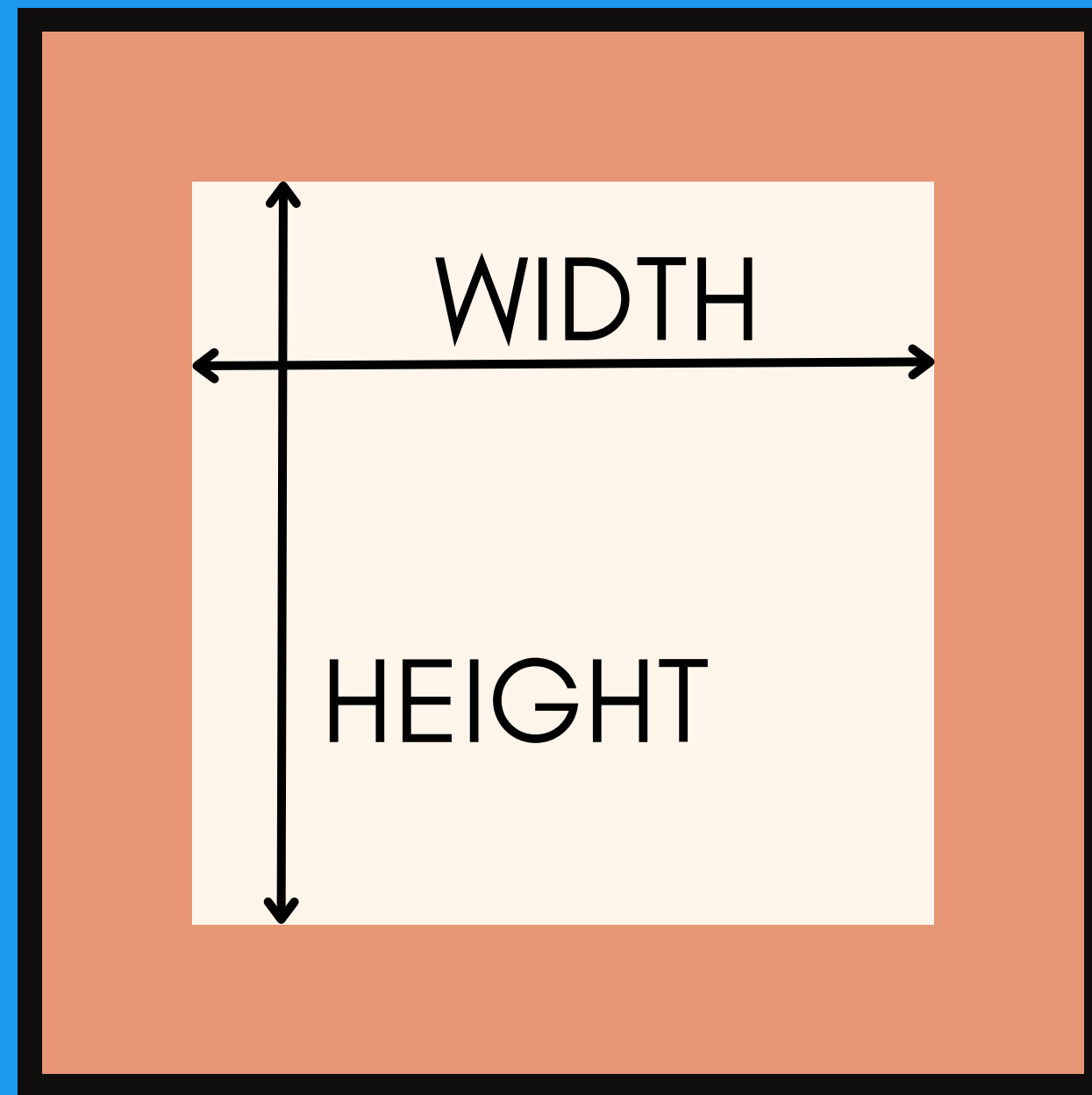
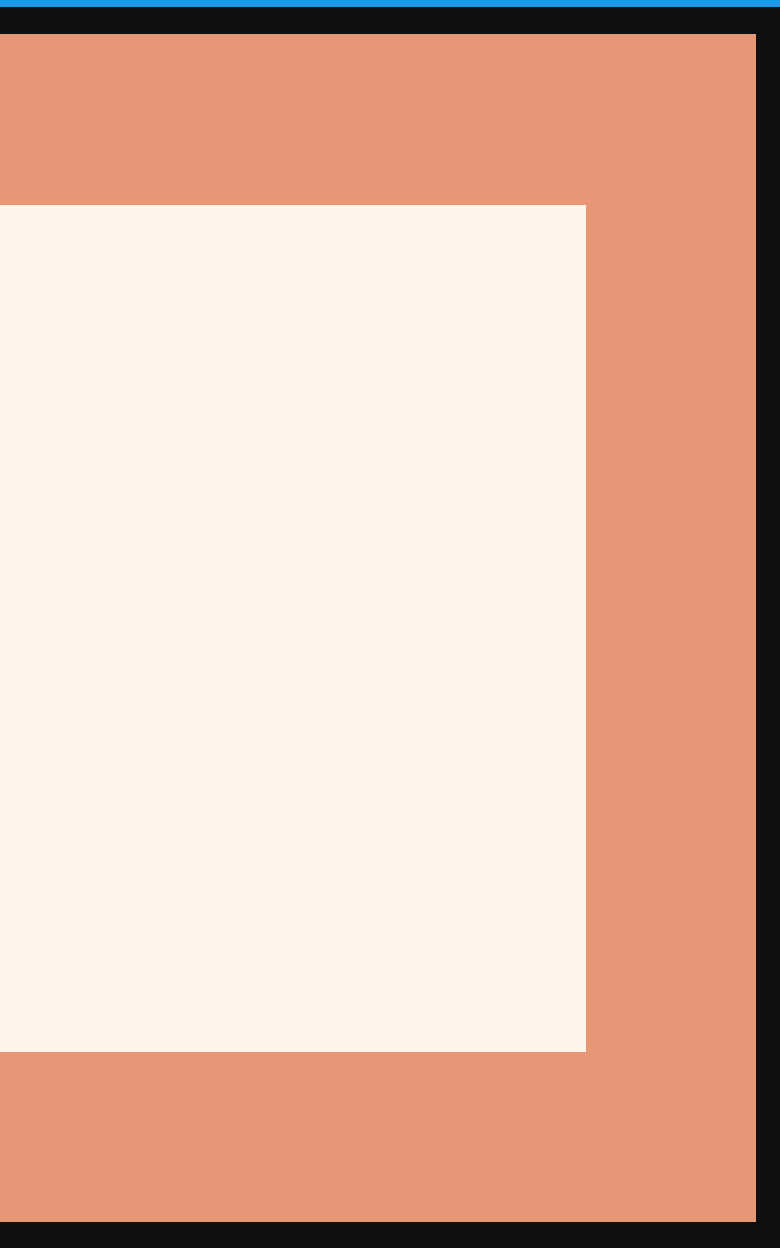
- CSS box model
- individual and shorthand properties
- display property
- absolute units



CSS BOX MODEL



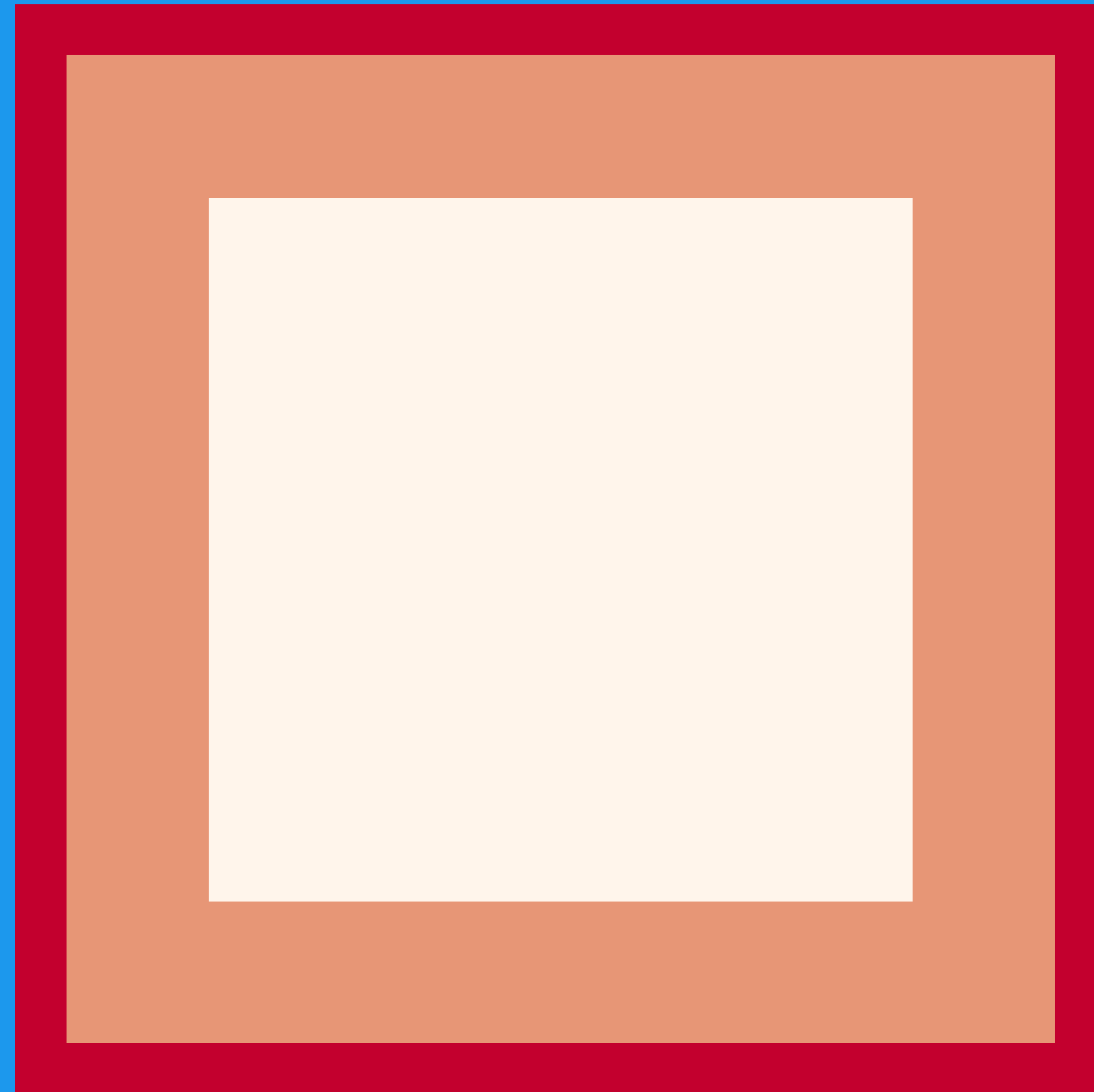
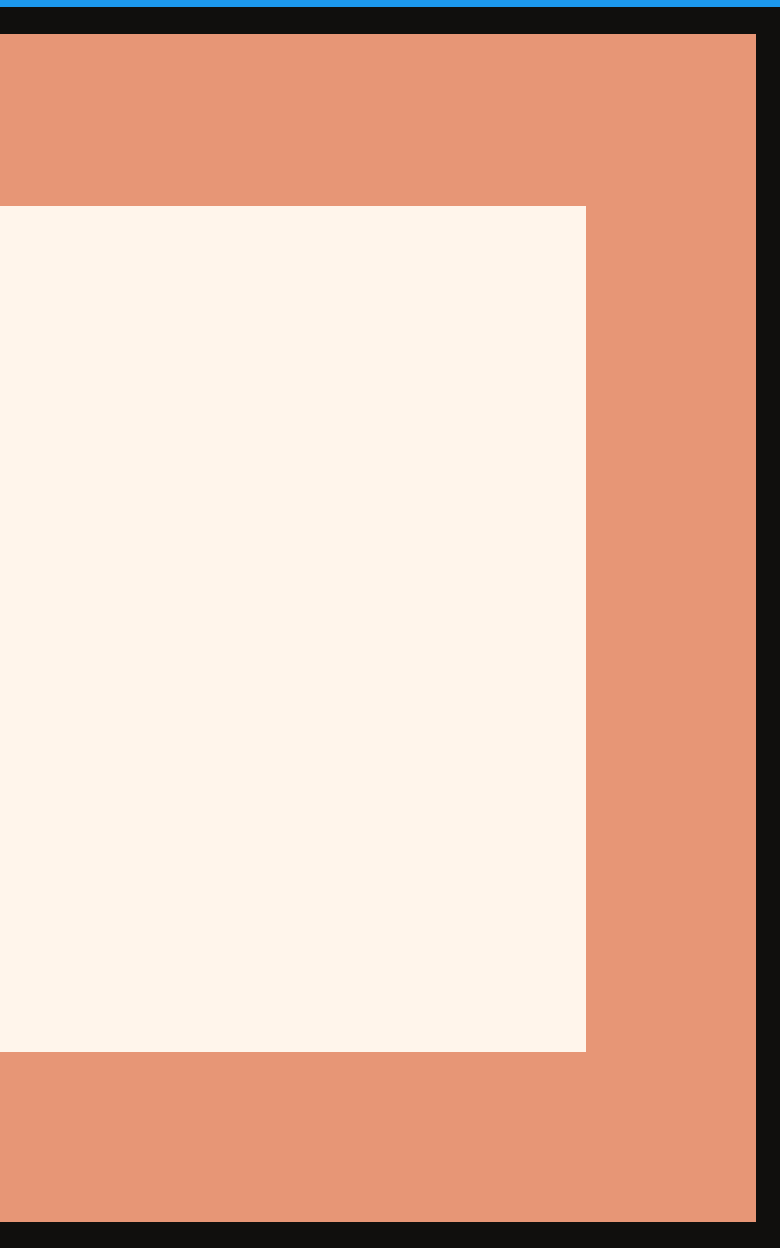
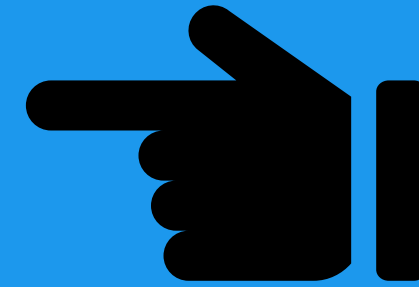
CSS BOX MODEL



CSS BOX MODEL



BORDER



BORDER PROPERTIES



(the important ones)

BORDER-WIDTH

Controls the thickness of the border.

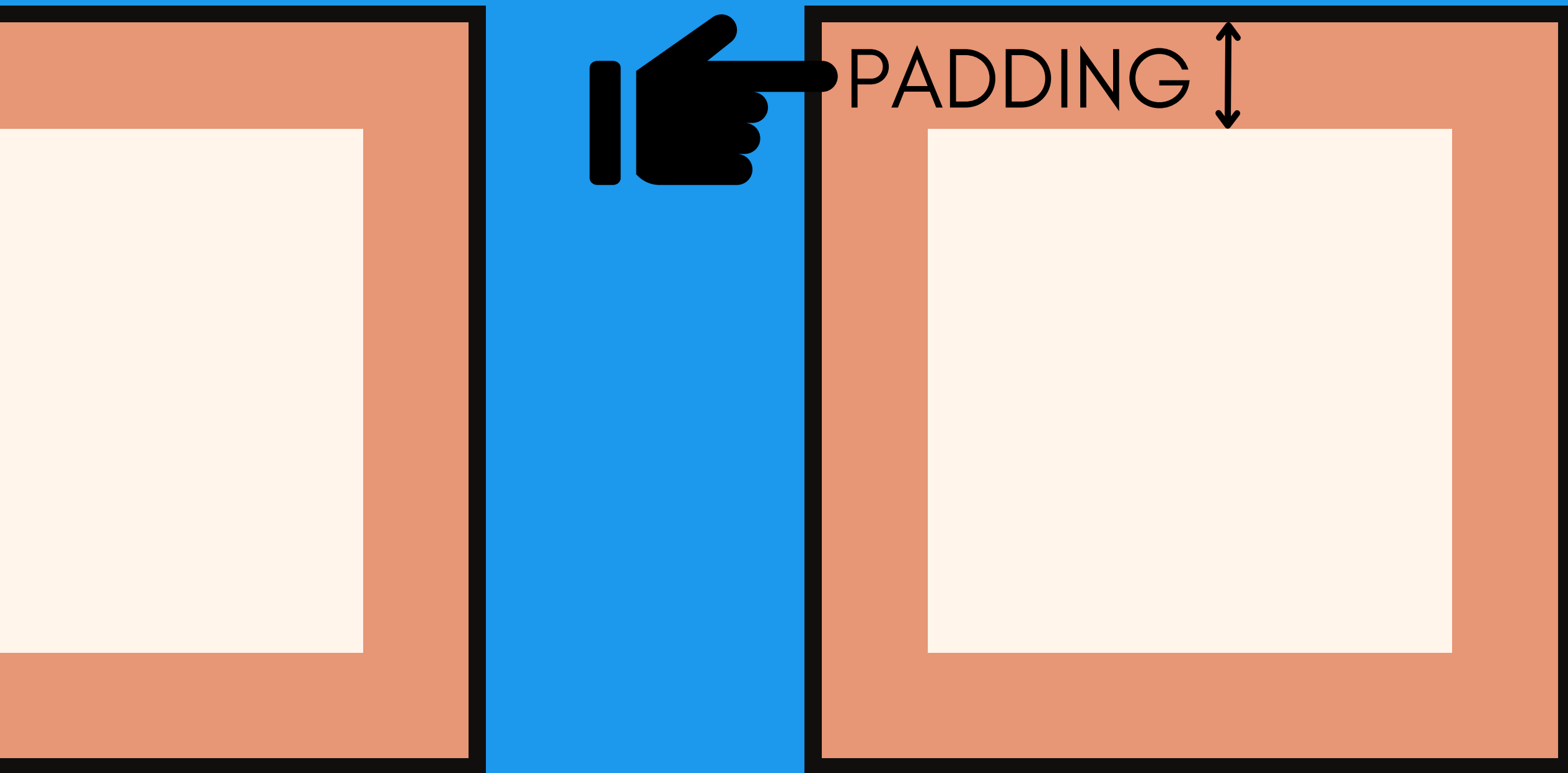
BORDER-COLOR

Controls the color of the border.

BORDER-STYLE

Controls the line style of the border: dashed, solid etc.

CSS BOX MODEL





PADDING PROPERTIES

INDIVIDUAL PROPERTIES

PADDING-LEFT

PADDING-RIGHT

PADDING-BOTTOM

PADDING-TOP

SHORTHAND PROPERTY

Set all four
sides at once.

PADDING SHORTHAND PROPERTY

Apply to all four sides



```
padding: 10px;
```

vertical | horizontal

```
padding: 5px 10px;
```

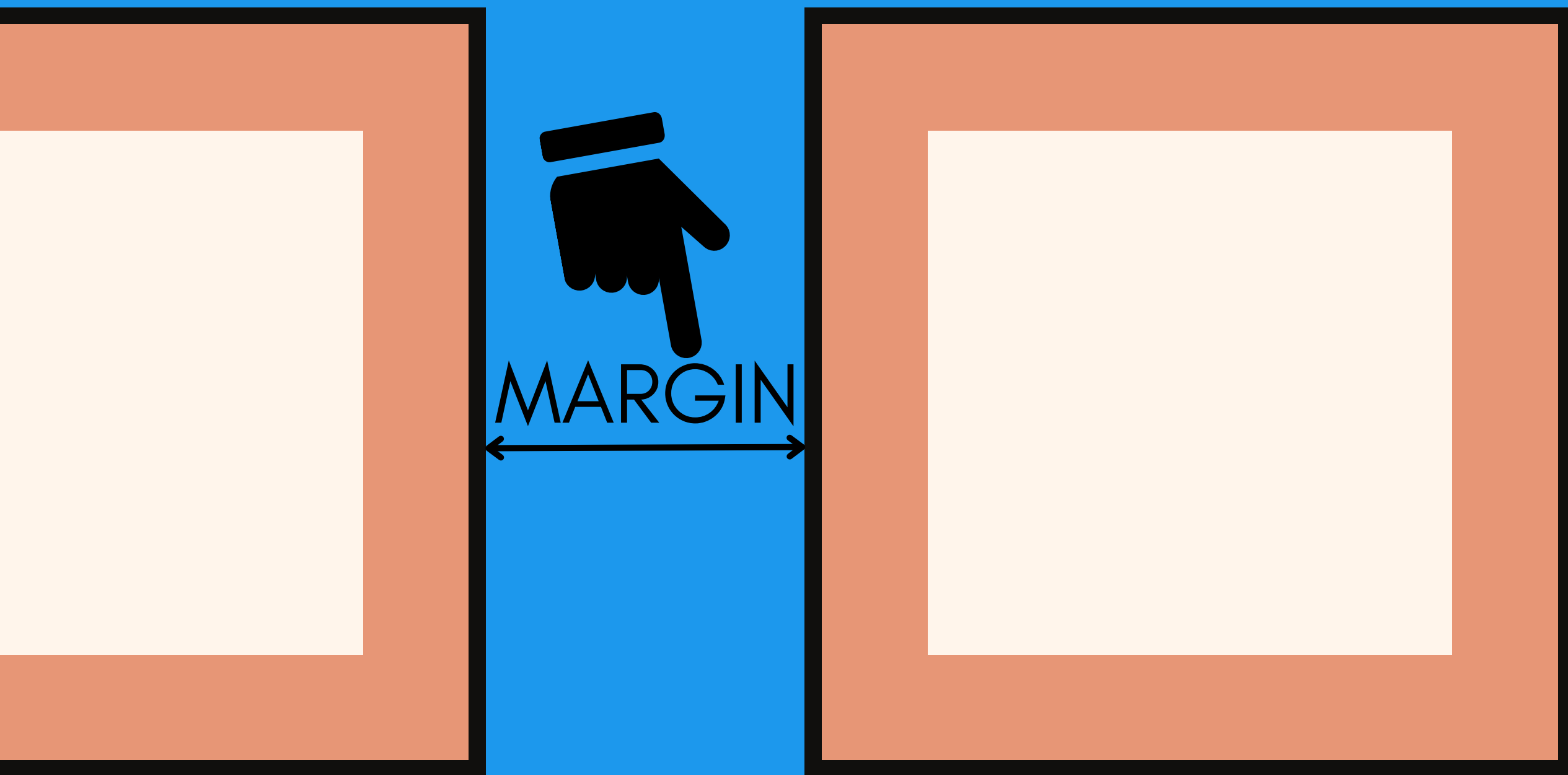
top | horizontal | bottom

```
padding: 1px 2px 2px;
```

top | right | bottom | left

```
padding: 5px 1px 0 2px;
```

CSS BOX MODEL





MARGIN PROPERTIES

INDIVIDUAL PROPERTIES

MARGIN-LEFT

MARGIN-RIGHT

MARGIN-BOTTOM

MARGIN-TOP

SHORTHAND PROPERTY

Set all four
sides at once.

MARGIN SHORTHAND PROPERTY

Apply to all four sides



```
margin: 10px;
```

vertical | horizontal

```
margin: 5px 10px;
```

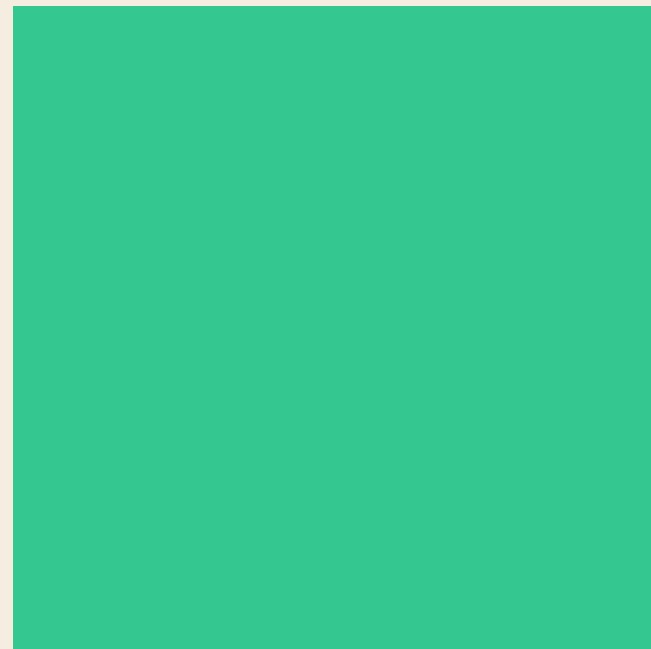
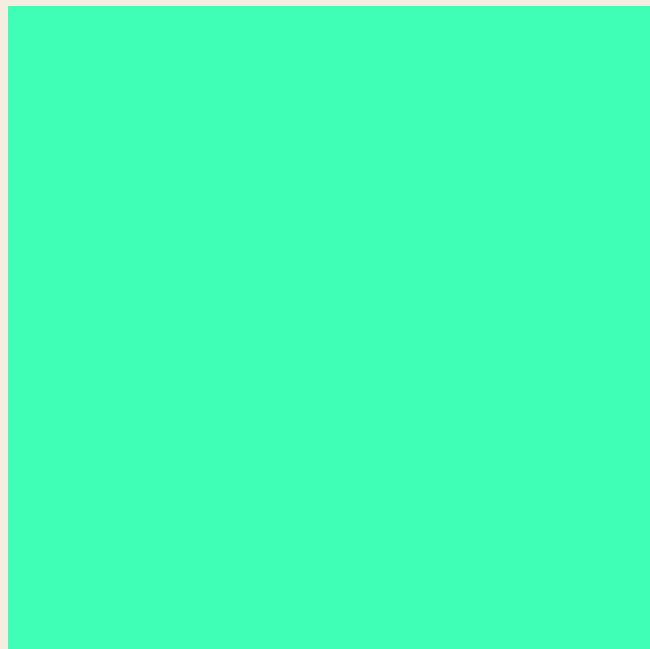
top | horizontal | bottom

```
margin: 1px 2px 2px;
```

top | right | bottom | left

```
margin: 5px 1px 0 2px;
```

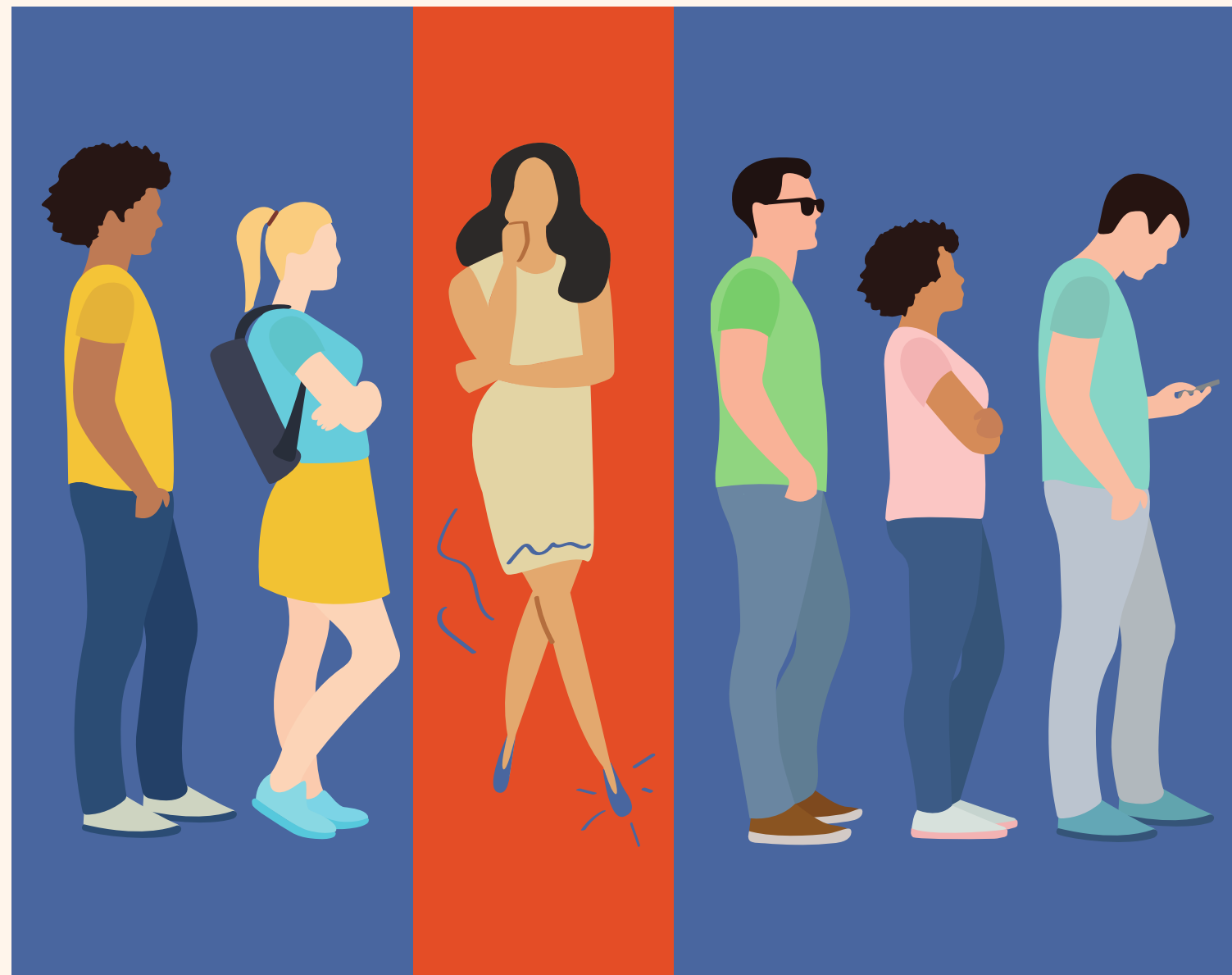
DISPLAY PROPERTY





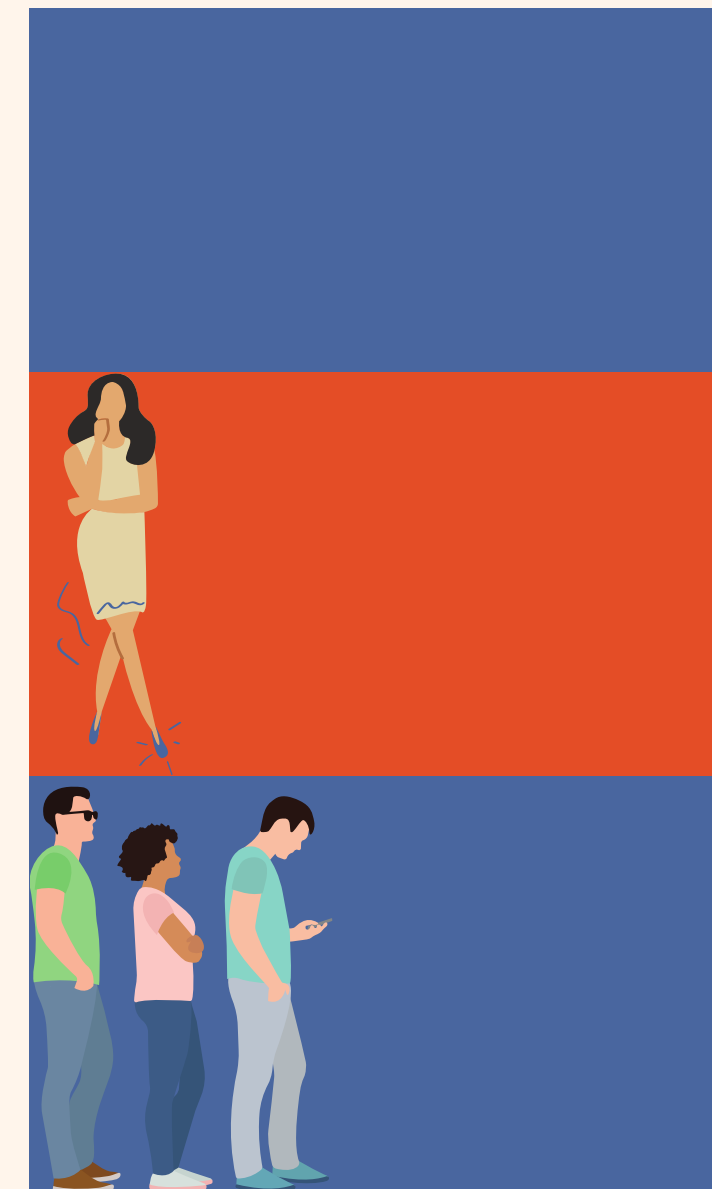
INLINE Elements

fit in alongside other elements



BLOCK Elements

take up a whole "block" of space





DISPLAY PROPERTY

INLINE

Width & Height are ignored. Margin & padding push elements away horizontally but not vertically.

BLOCK

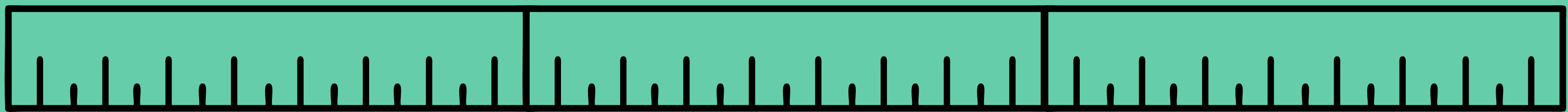
Block elements break the flow of a document. Width, Height, Margin & Padding are respected.

INLINE-BLOCK

Behaved like an inline element except Width, Height, Margin & Padding are respected



CSS UNITS



Relative

- EM
- REM
- VH
- VW
- %

and more!

Absolute

- PX
- PT
- CM
- IN
- MM



Absolute Units

PX – by far the most commonly used absolute unit

1px does not necessarily equal the width of exactly one pixel!

Not recommended for responsive websites.



Relative Units

EM

With font-size, 1em equals the font-size of the parent. 2em's is twice the font-size of the parent etc.

With other properties, 1em is equal to the computed font-size of the element itself.



Relative Units

REM

Root ems are relative to the **root html element's** font-size. Often easier to work with.

If the root font-size is 20px, 1rem is always 20px, 2rem is always 40px etc.



Relative Units

VW & VH

VIEW HEIGHT & VIEW WIDTH

1vw is 1% of the width of the viewport

1vh is 1% of the height of the viewport

For example: height: 100vh would make an element take up the full height on screen