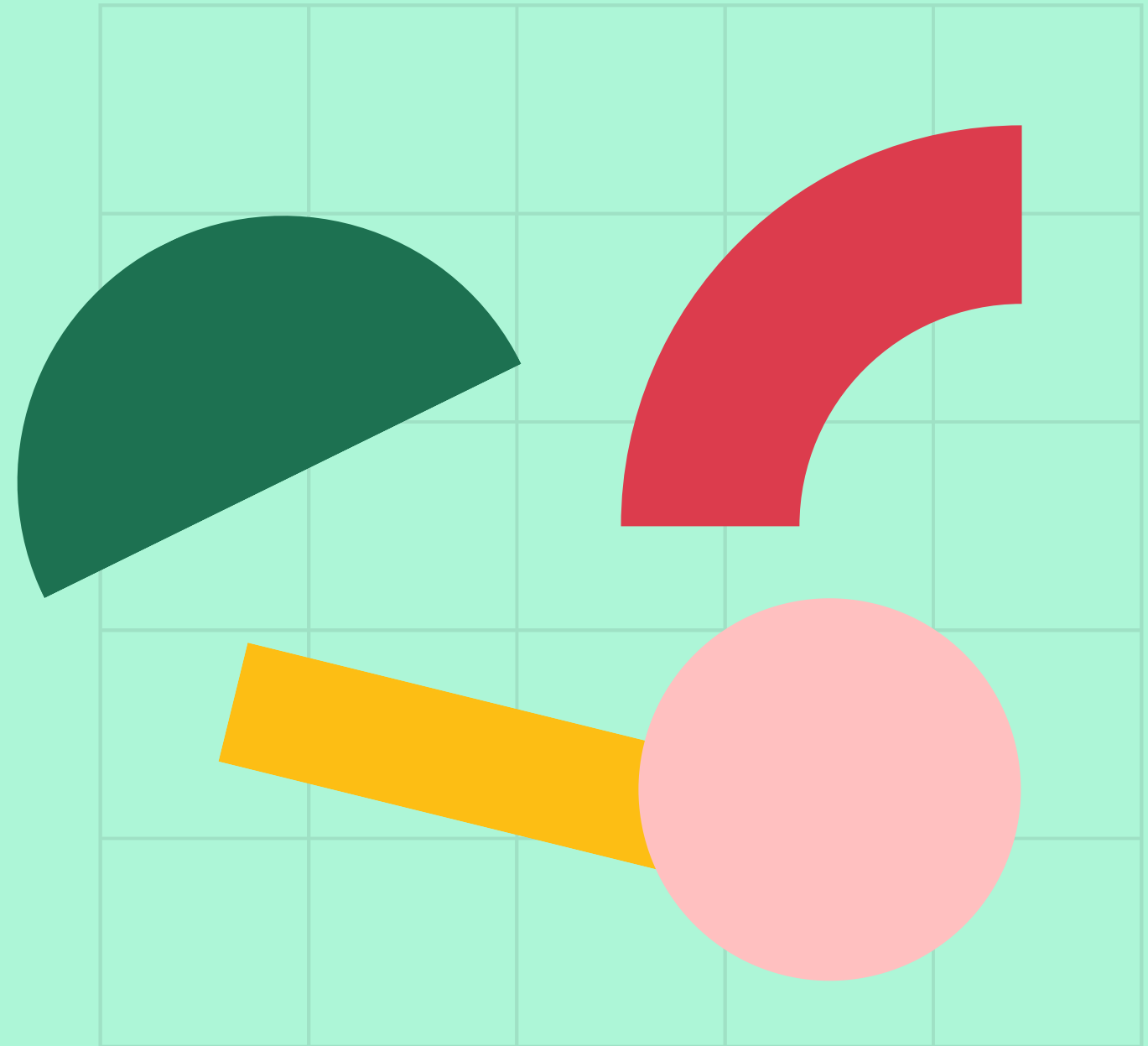**CG**

CSS Box Model

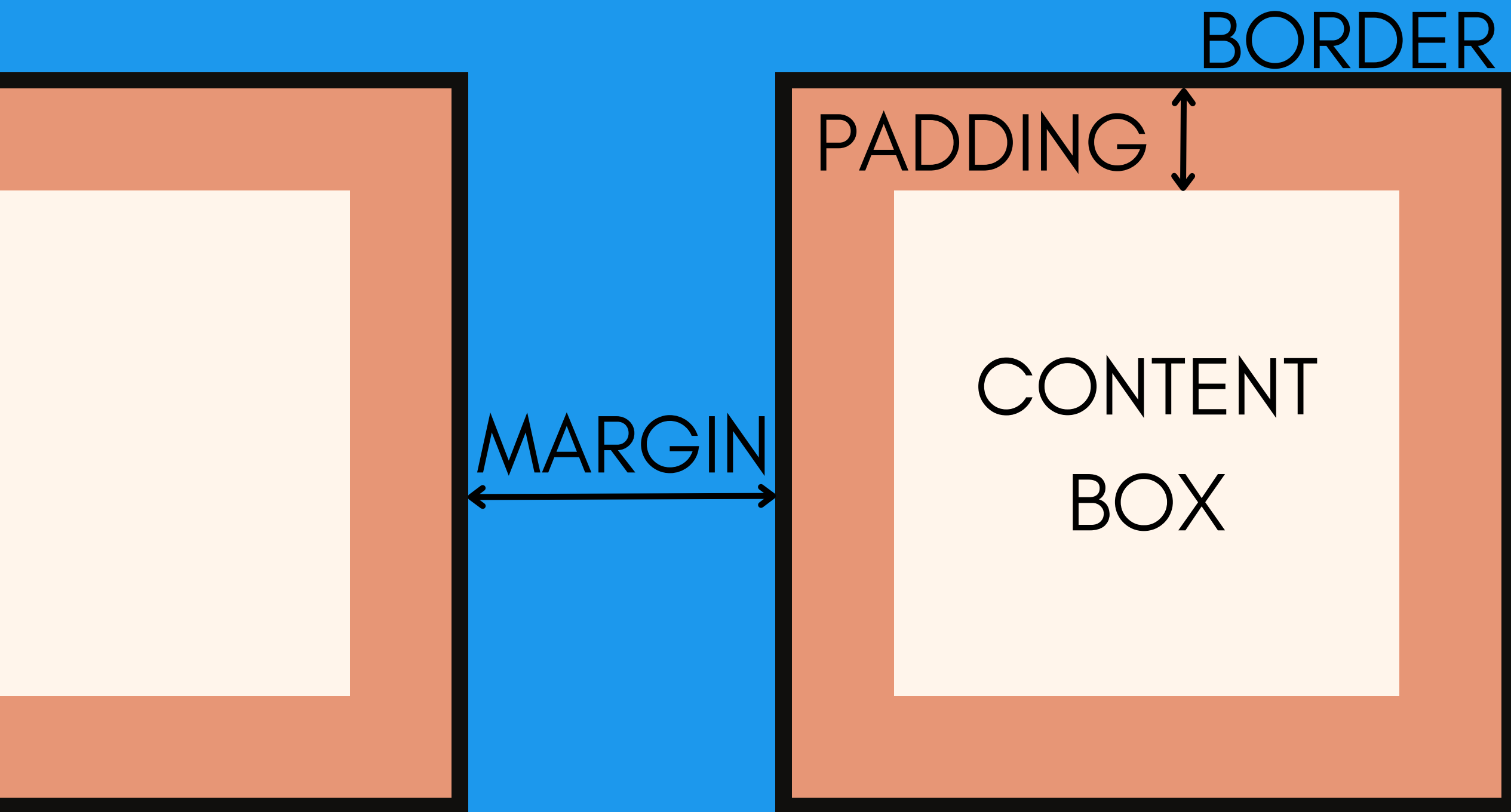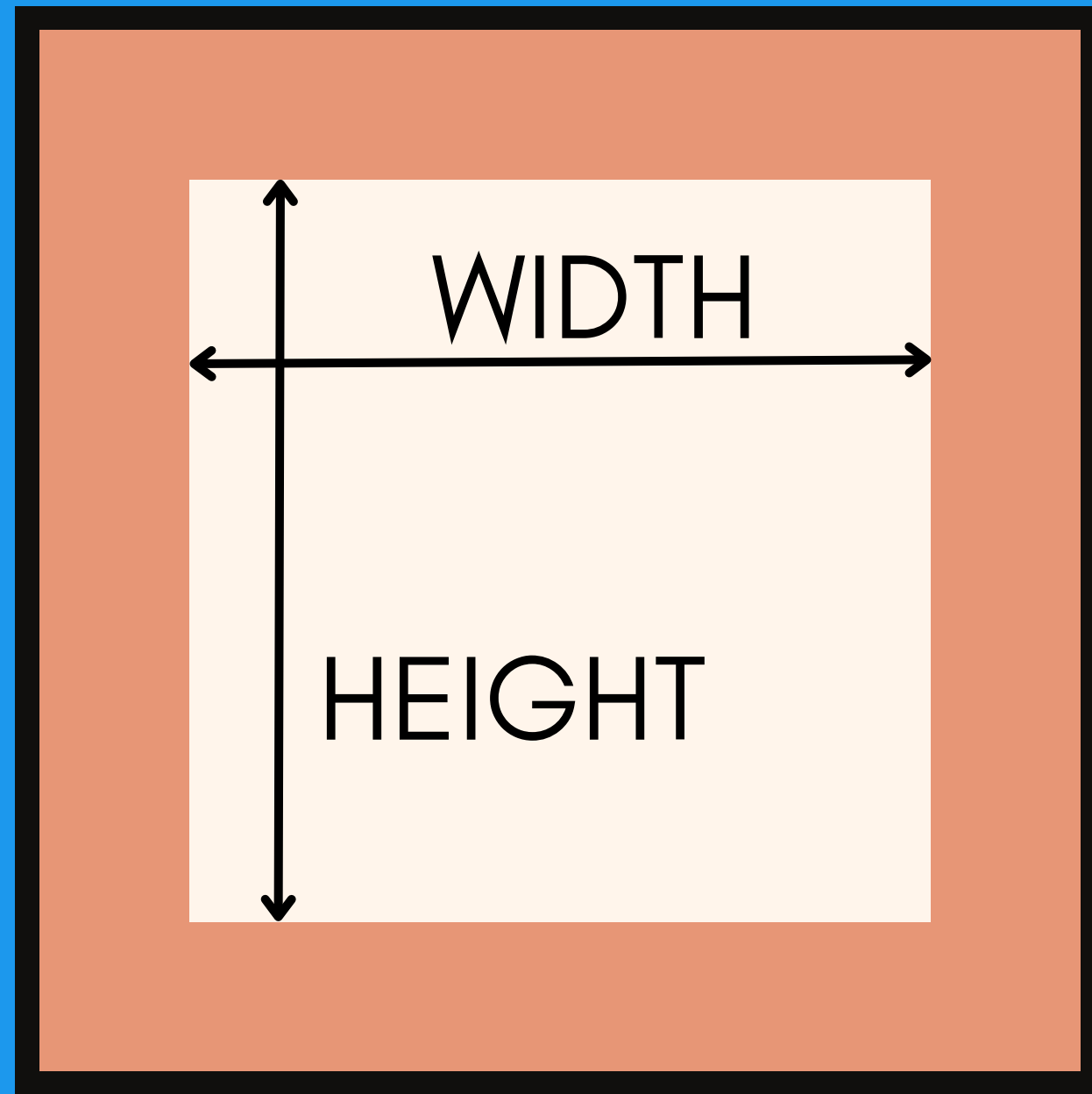Course for Beginners

Unit Goals

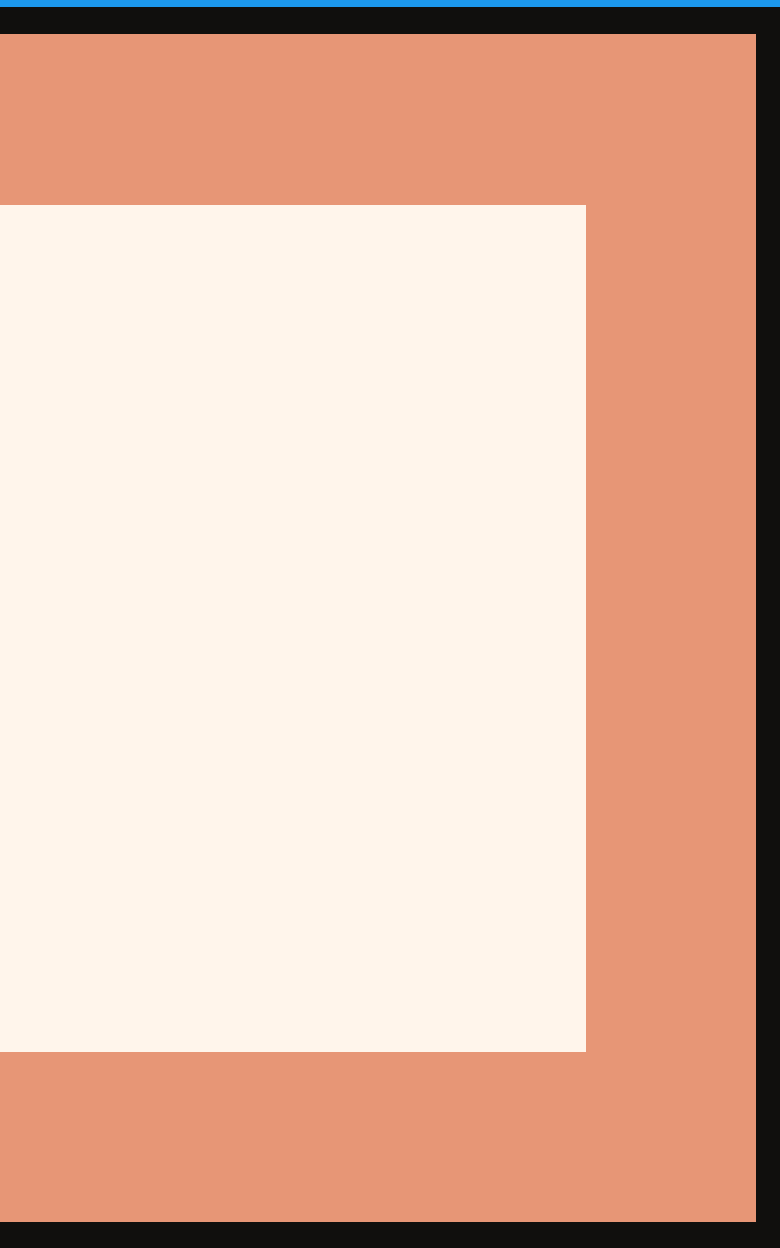what we'll cover

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

CSS BOX MODEL

BORDER

PADDING

MARGIN

CONTENT
BOX

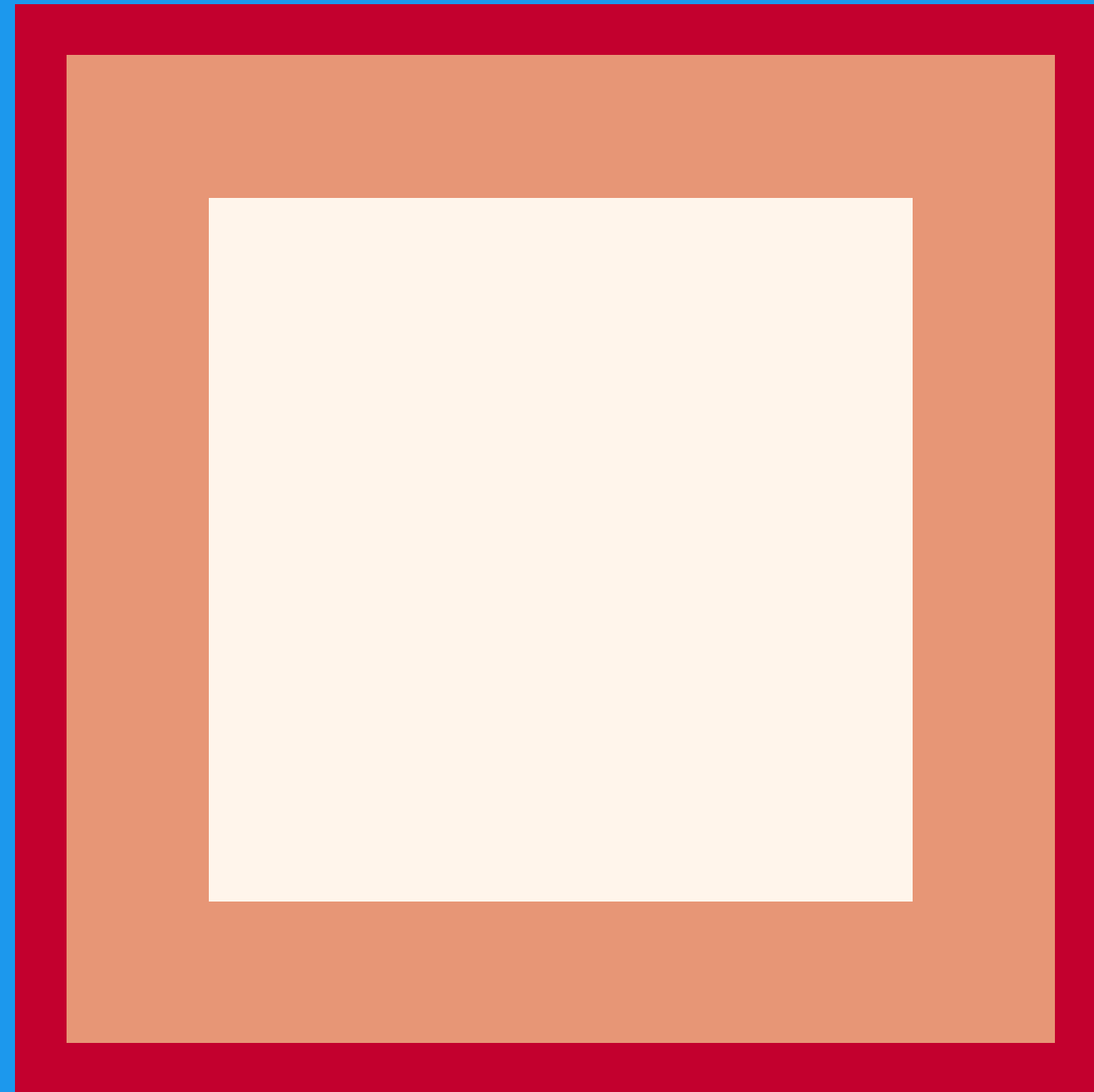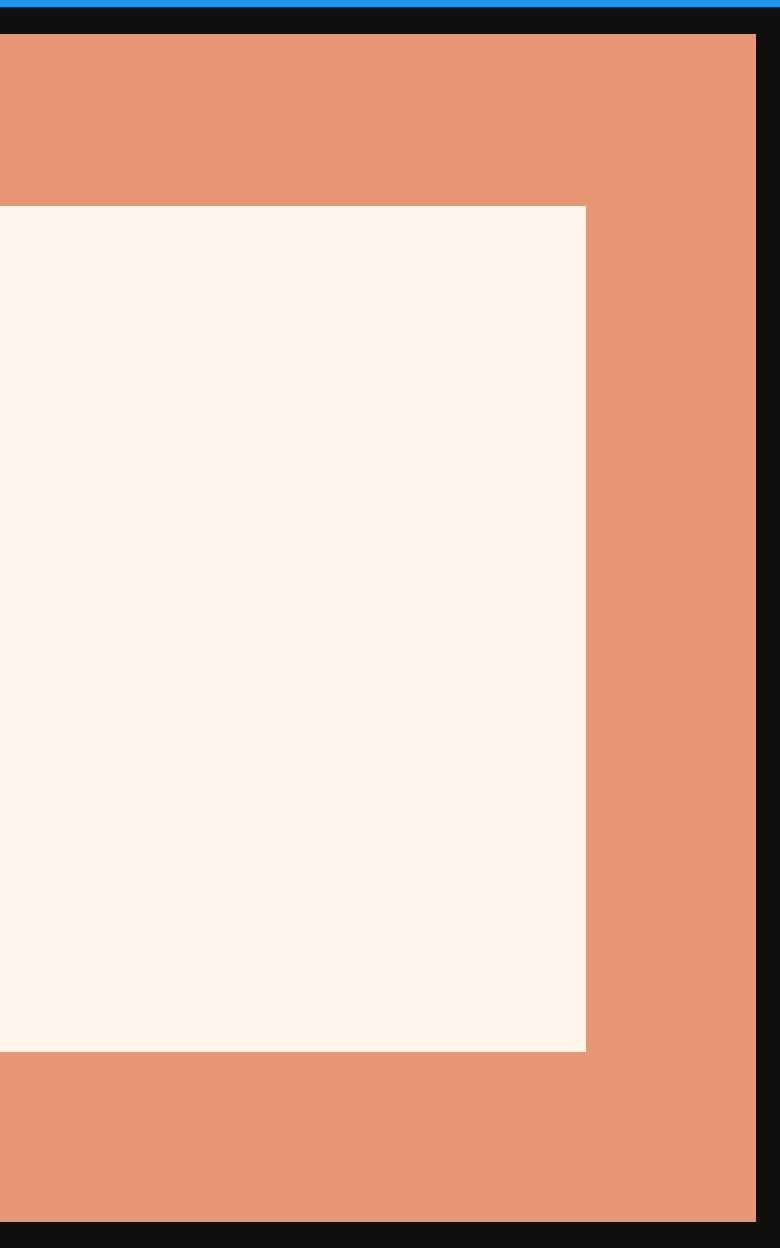# CSS BOX MODEL

WIDTH

HEIGHT

CSS BOX MODEL

BORDER 👉

BORDER PROPERTIES
(the important ones)

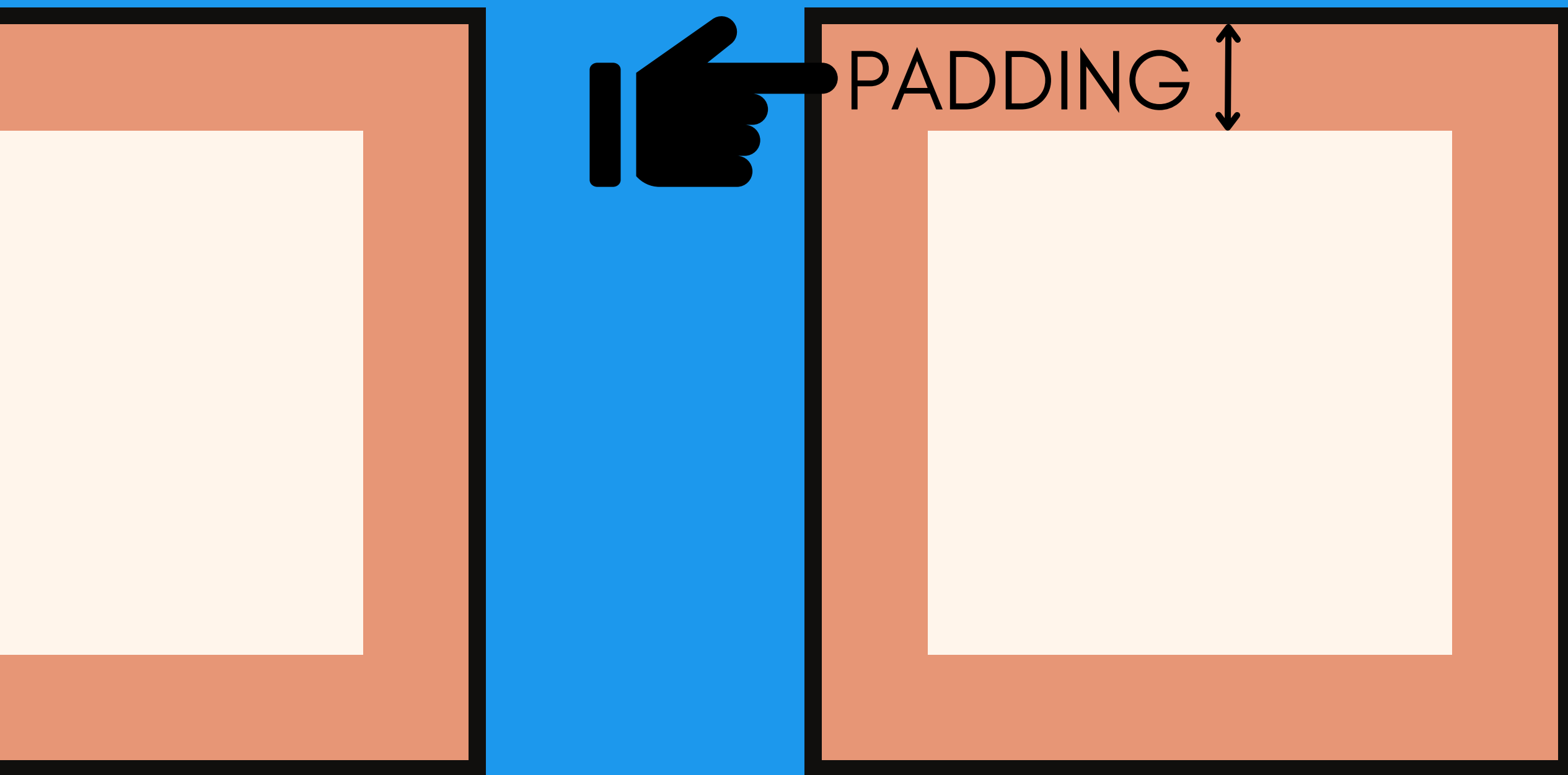## BORDER-WIDTH
Controls the thickness of the border.

BORDER-COLOR
Controls the color of the border.

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

CSS BOX MODEL

PADDING

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;
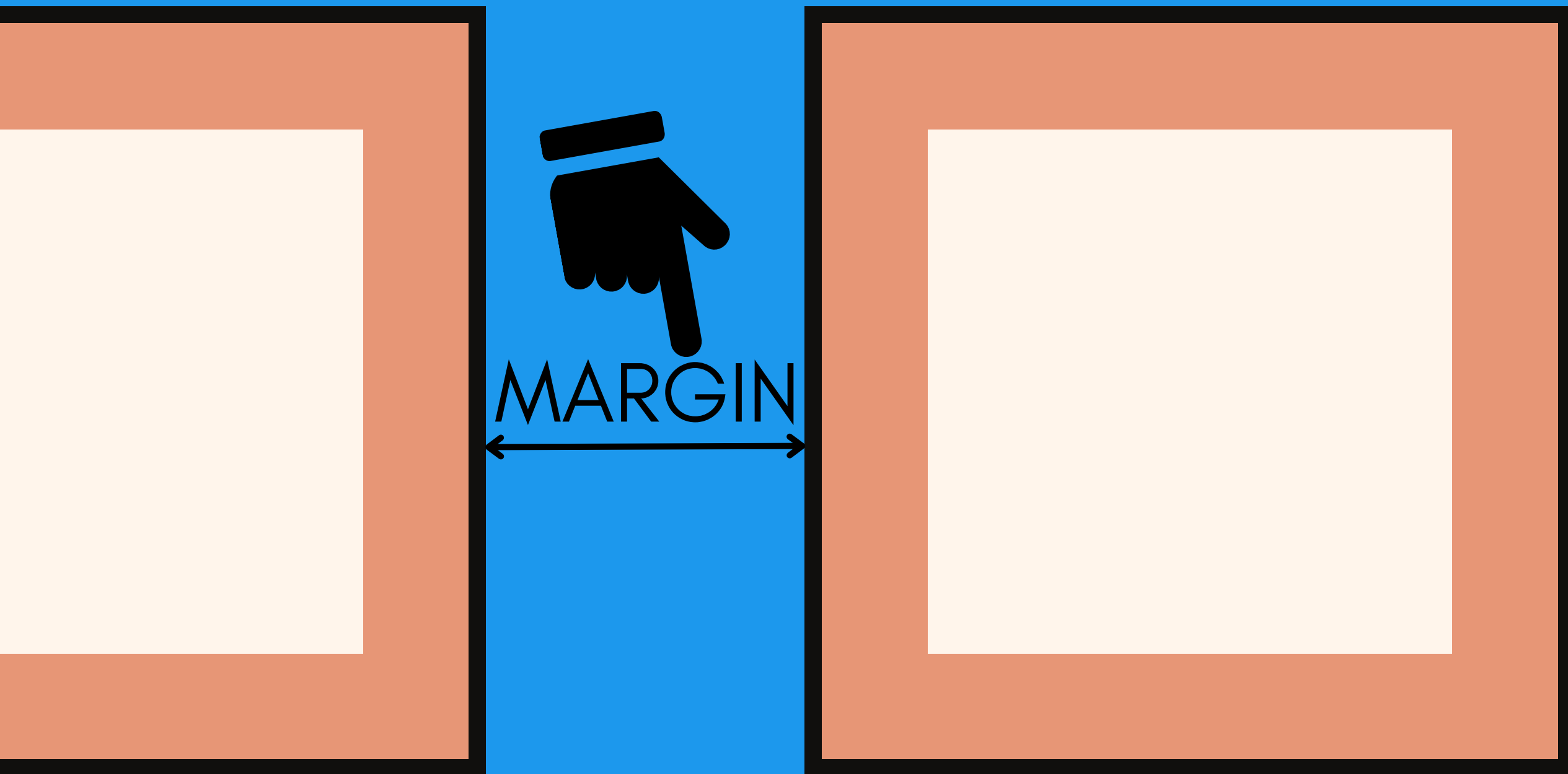
vertical | horizontal
padding: 5px 10px;

top | horizontal | bottom
padding: 1px 2px 2px;

top | right | bottom | left
padding: 5px 1px 0 2px;

CSS BOX MODEL

MARGIN

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
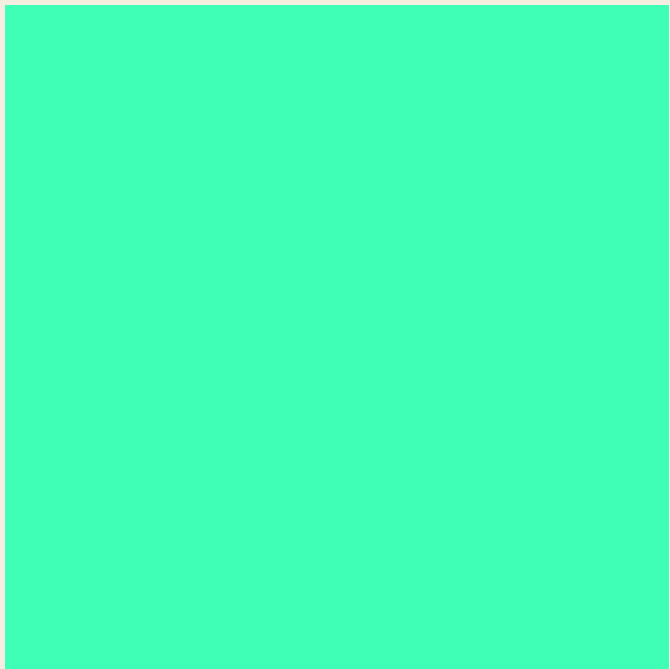margin: 10px;

vertical | horizontal
margin: 5px 10px;

top | horizontal | bottom
margin: 1px 2px 2px;

top | right | bottom | left
margin: 5px 1px 0 2px;
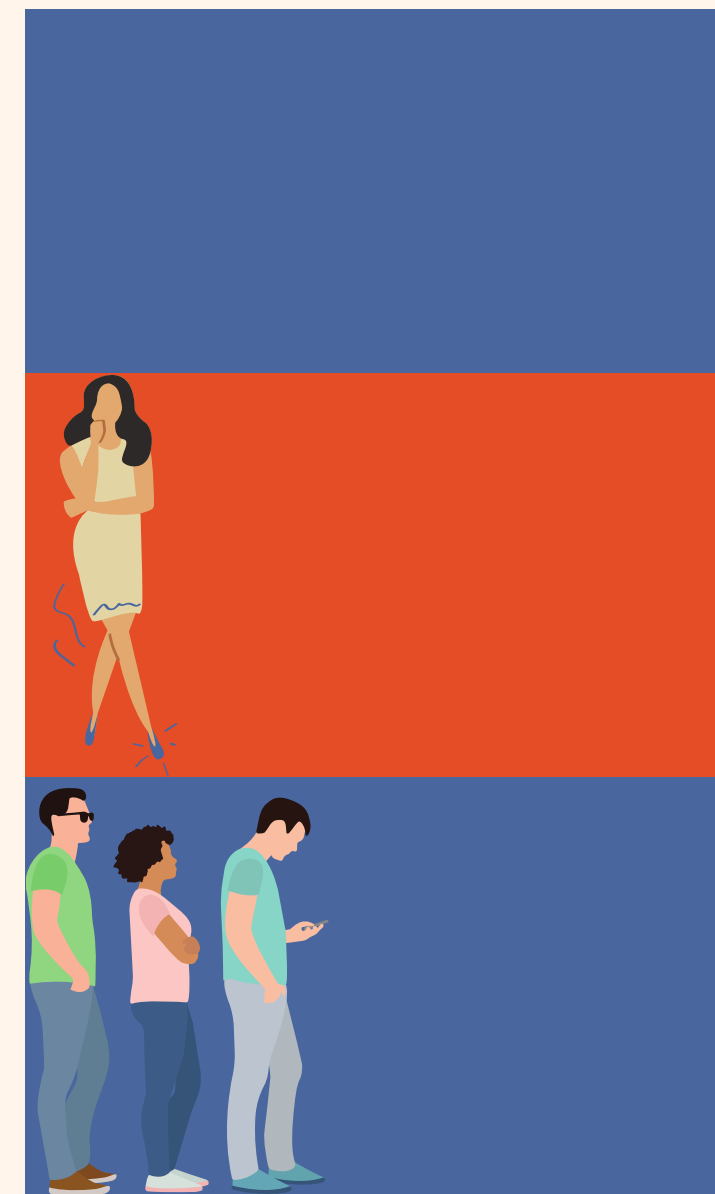
DISPLAY PROPERTY

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