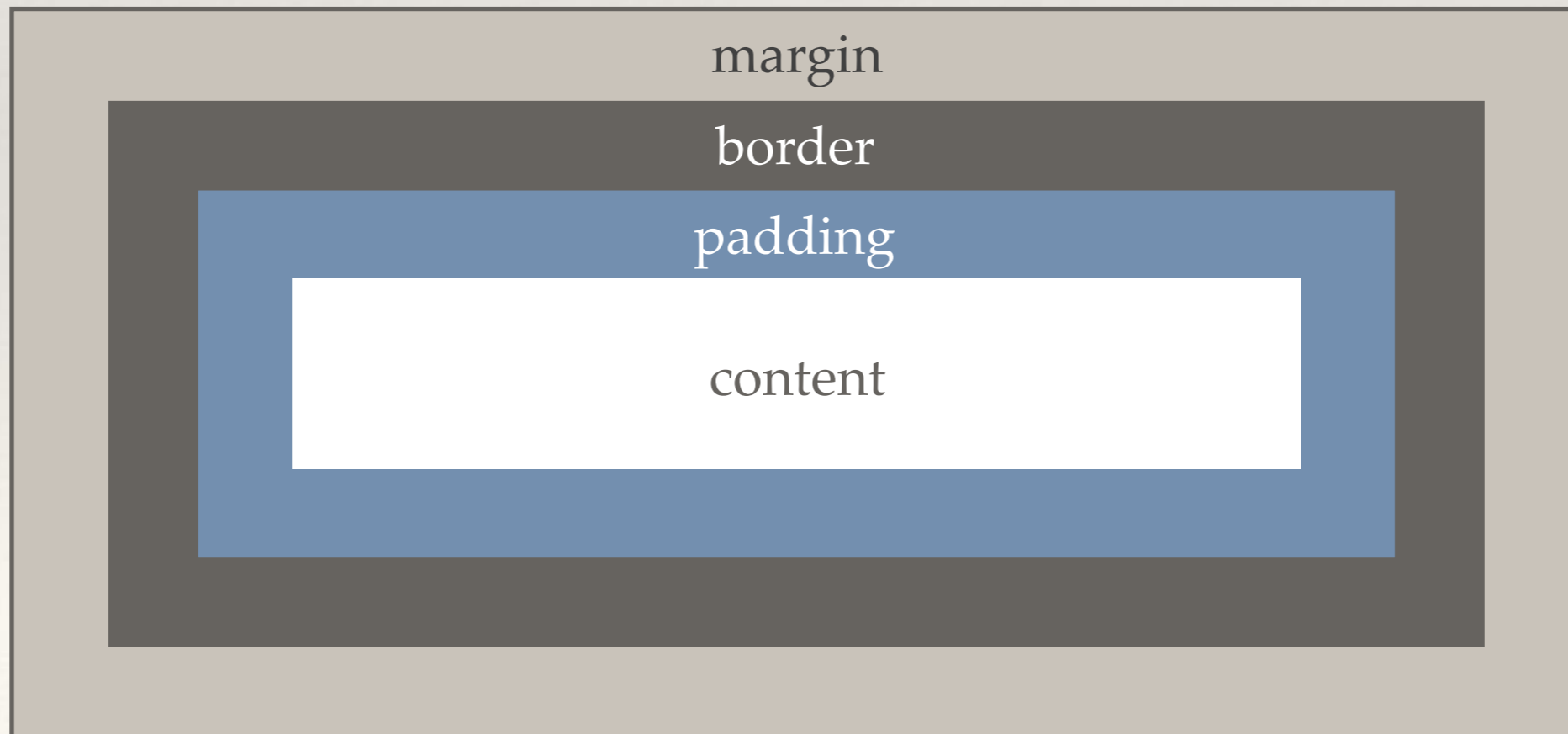


Shwe Oak (Htet Thu Win)

CSS Basics: Box Model

Box Model

- ❖ Foundation of web layout
- ❖ Each element is rectangular box with layers of margin, border, padding, and the actual content.



margin

- ❖ Margin is outside border.
- ❖ Defined with following properties:
 - ❖ `margin-top: length;`
 - ❖ `margin-right: length;`
 - ❖ `margin-bottom: length;`
 - ❖ `margin-left: length;`
 - ❖ `margin: top-length right-length bottom-length left-length`

margin (cont)

❖ Example:

```
p {
```

```
  margin-top: 40px;
```

```
  margin-right: 30px;
```

```
  margin-bottom: 20px;
```

```
  margin-left: 10px;
```

```
}
```

```
p { margin: 40px 30px 20px 10px; }
```

border

- ❖ Border is between margin and padding area
- ❖ Defined with following properties:
 - ❖ `border-width: length;`
 - ❖ `border-style: dotted | dashed | solid | double | groove, ridge | inset | outset | none | hidden`
 - ❖ `border-color: color`

border (cont)

- ❖ Properties continue...
- ❖ `border-top: border-width border-style border-color`
- ❖ `border-right: border-width border-style border-color`
- ❖ `border-bottom: border-width border-style border-color`
- ❖ `border-left: border-width border-style border-color`
- ❖ `border: border-width border-style border-color`

border (cont)

❖ Example:

```
p {  
    border: 1px solid green;  
}
```

```
p { border-bottom: 5px solid #ccc; }
```

padding

- ❖ Padding is between content area and border.
- ❖ Defined with following properties:
 - ❖ `padding-top: length;`
 - ❖ `padding-right: length;`
 - ❖ `padding-bottom: length;`
 - ❖ `padding-left: length;`
 - ❖ `padding: top-length right-length bottom-length left-length`

padding (cont)

❖ Example:

```
p {  
    padding-top: 40px;  
    padding-right: 30px;  
    padding-bottom: 20px;  
    padding-left: 10px;  
}  
  
p { padding: 40px 30px 20px 10px; }
```

Content

- ❖ Contains text, image, video, audio, etc...
- ❖ Width and height of content box can be explicitly set with following properties with length value when “box-sizing” property is set to “content-box” (default).
 - ❖ *width: length;*
 - ❖ *height: length;*
 - ❖ *min-width: length;*
 - ❖ *min-height: length;*
 - ❖ *max-width: length;*
 - ❖ *max-height: length;*

Content (Cont)

- ❖ When “box-sizing” property is set to “content-box”, the total width of the element is
 - ❖ Total width = width + left padding + right padding + left border + right border + left margin + right margin
 - ❖ Total height = height + top padding + bottom padding + top border + bottom border + top margin + bottom margin

Content (cont)

❖ Example:

```
p {  
    width: 100%;  
    min-width: 320px;  
    max-width: 1240px;  
}
```

Thank you