

CSS WORKSHOP

The Basic of Cascading Style Sheets



Rules

- > Thou shall asketh thy question if thou hast one
- > Thou shall not laugh at questions of others
 - > The world existeth no stupid questions
 - > Existeth only people who brave not to asketh
- > Every man that hath attained to the use of reason, is supposed to know, he ought not to do to another, what he would not have done to himselfe
- > Thou shalt convenant to follows the common rules

Recap HTML

```
accessories.html  
<a href = "http://www.google.com"> Google </a>
```

Attribute

Element

Content

Cascading Style Sheet

```
accessories.html  
<body>  
  <div>  
    <img src = "banner.jpg" alt = "Shop Accessories Banner"  
         style = "max-width: 1260px;">  
  </div>  
</body>
```



Inline Style Sheet



The screenshot shows a dark-themed code editor window. In the top bar, there are three colored window control buttons (red, yellow, green) on the left and a file icon followed by the text "accessories.html" on the right. The main editor area contains the following HTML code:

```
<p style="font-style: italic;"> I'm so good at sleeping,  
I can do it with my eyes closed </p>
```

- › HTML **style** attribute
- › Only applies to specific element
- › Placed in **<body>** section

*“What if I want it to apply to
all `<p>` element in the
rest of the page? ”*

Embedded Style Sheet



```
accessories.html
<!DOCTYPE html>
<html>
<head>
    <title>Shop Happily</title>
    <style type="text/css">
        p {
            font-style: italic;
        }

        h1 {
            font-size: 42px;
        }
    </style>
</head>
```

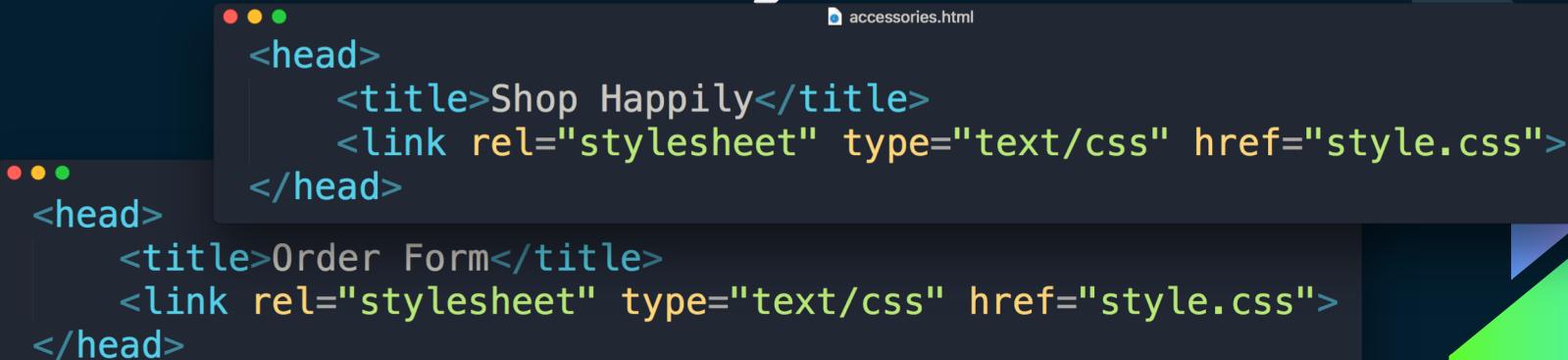
- › HTML <style> element
- › Placed in <head> section
- › Requires selector
- › Only applies to a single HTML page document

CSS format



*“What if I want to apply the
same **font-size** in more
than one html page? ”*

External Style Sheet



The image shows two side-by-side code snippets from a code editor. The top snippet is titled 'accessories.html' and contains:

```
<head>
    <title>Shop Happily</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
```

The bottom snippet is titled 'order.html' and contains:

```
<head>
    <title>Order Form</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
```



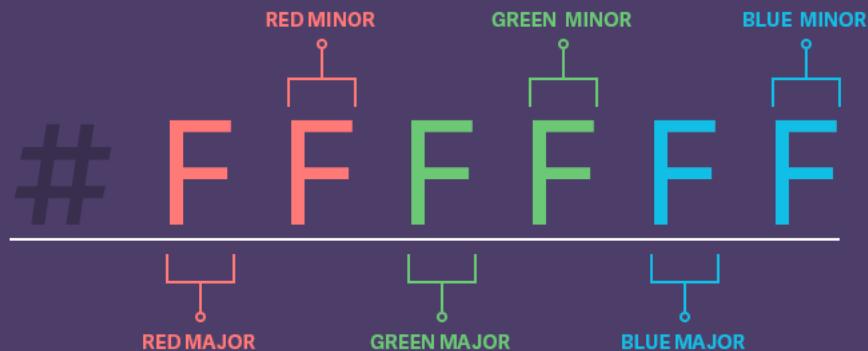
The image shows a code snippet from a file named 'style.css' containing:

```
body {
    font-size: 42px;
    background-color: #f4EEEE;
    color: #444444;
}
```

What are these? 🤔

- Separate HTML & CSS
- Placed in `<head>` section
- HTML `<link>` element to associate with .css file
- Requires selector
- Applies to multiple HTML page documents

Hexadecimal Colors



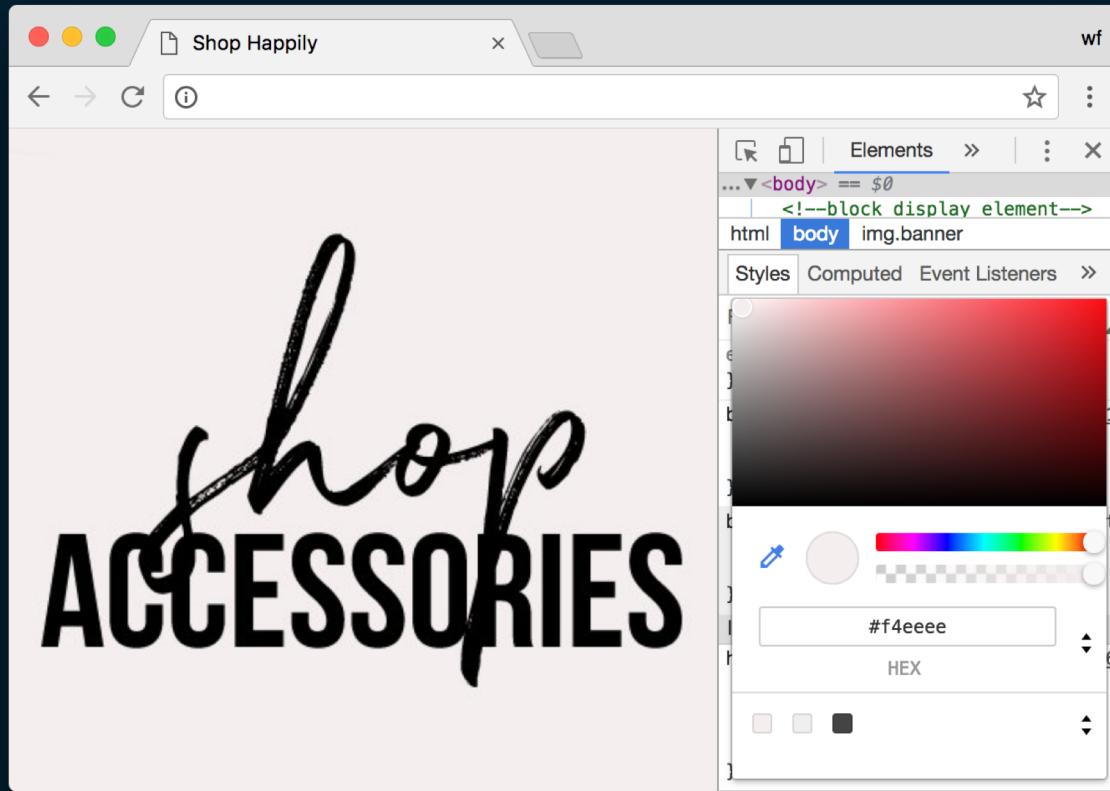
Comparing Hex with RGB

Hexadecimals counts from 0 ~ 9 then A ~ F

- › $\text{RGB}(255,0,0) = \text{\#FF0000}$ Red
- › $\text{RGB}(0,255,0) = \text{\#00FF00}$ Green
- › $\text{RGB}(0,0,255) = \text{\#0000FF}$ Blue

See the pattern?

Right click > Inspect



Types of CSS

- › Inline Style
- › Embedded Style
- › External Style

Quiz

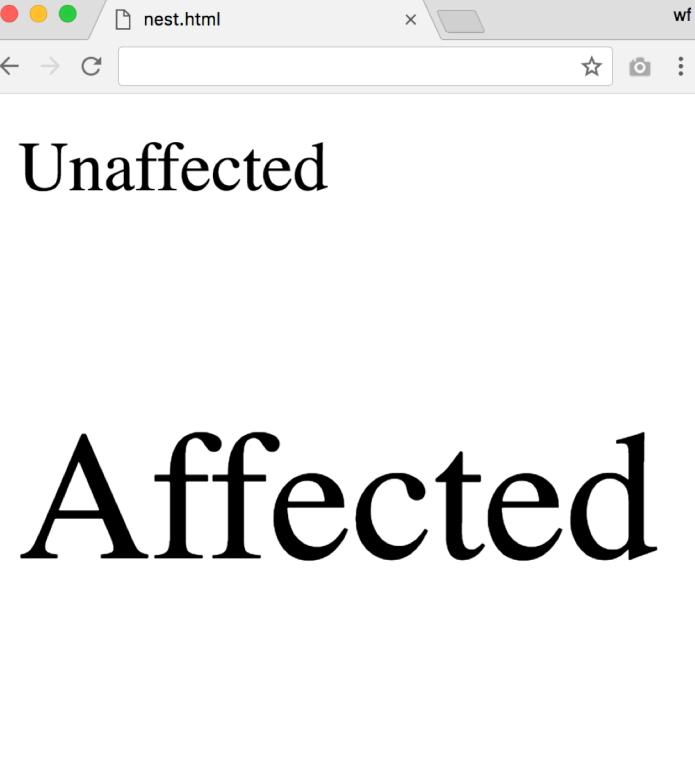
What is the color of the output?

```
quiz.html
<head>
  <link rel="stylesheet" type="text/css" href="quiz.css">
  <style> p {color: #00FF00;} </style>
</head>
<body>
  <p style="color: #0000FF">What color?</p>
</body>
```

```
quiz.css
p {
  color: #FF0000;
}
```

*“What if I want to apply
different **font-sizes** in two
different < p > elements
with external style? ”*

```
<head>
  <style type="text/css">
    div>p {
      font-size: 42px;
    }
  </style>
</head>
<body>
  <p> Unaffected </p>
  <div>
    <p> Affected </p>
  </div>
</body>
```



Selectors

- › `div > p` All `<p>` one level deep in `<div>`
 - › `div p` All `<p>` inside `<div>`
 - › `div, p` All `<p>` tags and `<div>` tags
-
- › `a:link` Link in normal state
 - › `a:hover` Link with mouse over it
 - › `a:visited` Link in visited state

ID

accessories.html

```
<p id = "font-large"> Large </p>
<p id = "font-small"> Small </p>
```

style.css

```
#font-large {
    font-size: 46px;
}

#font-small {
    font-size: 23px;
}
```

Class



accessories.html

```
<div class="content">
  <p id = "font-large"> Large </p>
  <p id = "font-small"> Small </p>
</div>
```



style.css

```
.content {
  text-align: center;
  width: 20px;
}
```

.class

- › Can use same class on multiple elements.
- › Can use multiple classes on the same element.
- › To consistently style different elements.

#id

- › Can only be used on one element.
- › Each element can only have one ID.
- › To style single unique element.

COMMONLY USED CSS



Text and fonts

- › font-size
- › font-weight
- › font-family
- › text-align
- › text-decoration

Visual Formatting

- › width
- › height
- › display

The Box Model

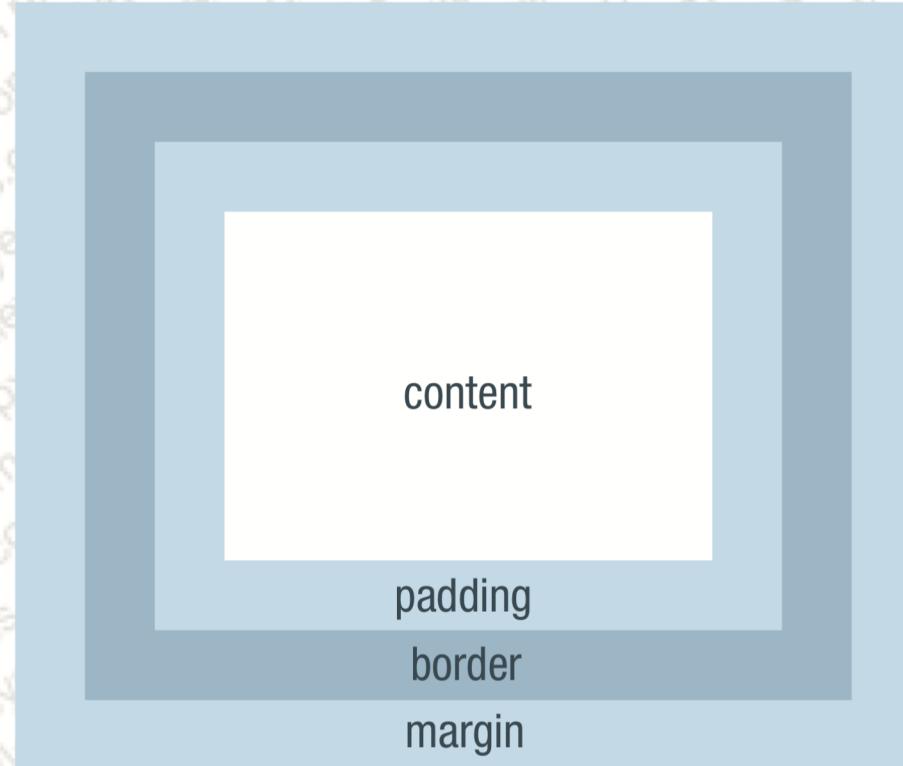
- › padding
- › margin
- › border
- › border-radius

Colors and Background

- › background-color
- › color
- › box-shadow

Margin & Padding

Box Model



Margin & Padding

with

Moog

Moog synthesisers were created by Dr. Robert Moog under the company name Moog Music. Popular models include the Moog Modular, Minimoog, Micromoog, Moog Rogue, and Moog Source.

ARP

ARP Instruments Inc. was set up by Alan Peralman, and was the main competitor for Moog during the 1970's. Popular models include the Arp 2600 and the ARP Odyssey.

Sequential Circuits

Sequential Circuits Inc was founded by Dave Smith, and the company was pivotal in the creation of MIDI. Famous models include the Prophet 5, Prophet 600, and Pro-One.

without

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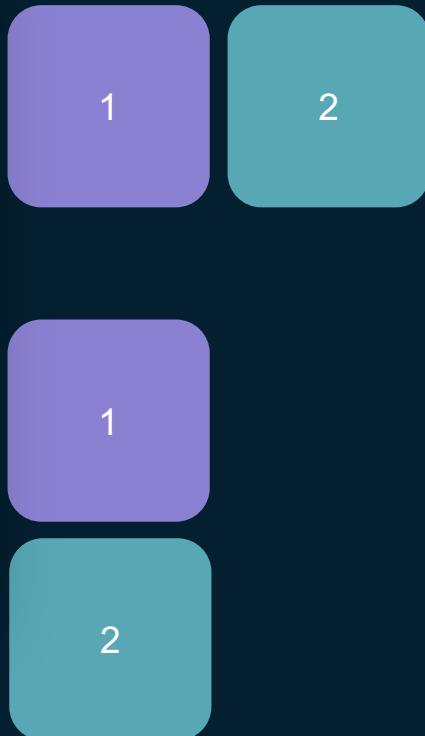
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Display property

```
ustyle.css
```

```
.shapes-inline {  
    display: inline;  
}  
  
.shapes-block {  
    display: block;  
}
```



Demonstration