

Introduction to HTML and CSS

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HTML

- HTML = HyperText Markup Language
- Web browsers: Internet Explorer, Chrome, FireFox, Opera, etc.
- Tools: text editors, Dreamweaver, Front Page, etc.
- File extensions: .htm, .html
- Syntax: `<tag>text</tag>`

HTML Commands

- Heading:

 - `<h1>Heading level 1</h1>`

 - `<h2>Heading level 2</h2>`

 - `<h3>Heading level 3</h3>`

- Paragraphs:

 - `<p>Paragraph 1</p>`

 - `<p>Paragraph 2</p>`

 - `<p>Paragraph 3</p>`

- Links:

 - `Google`

HTML Commands

- Images: .jpg, .gif, .png

```

```

- Table:

```
<table width=500 bgcolor=#998877>  
  <tr><td>R1,C1</td><td>R1,C2</td></tr>  
  <tr><td>R2,C1</td><td>R2,C2</td></tr>  
</table>
```

HTML Commands

- HTML body

```
<body background=bg.jpg bgcolor=#AABBCC>
```

```
Text ...
```

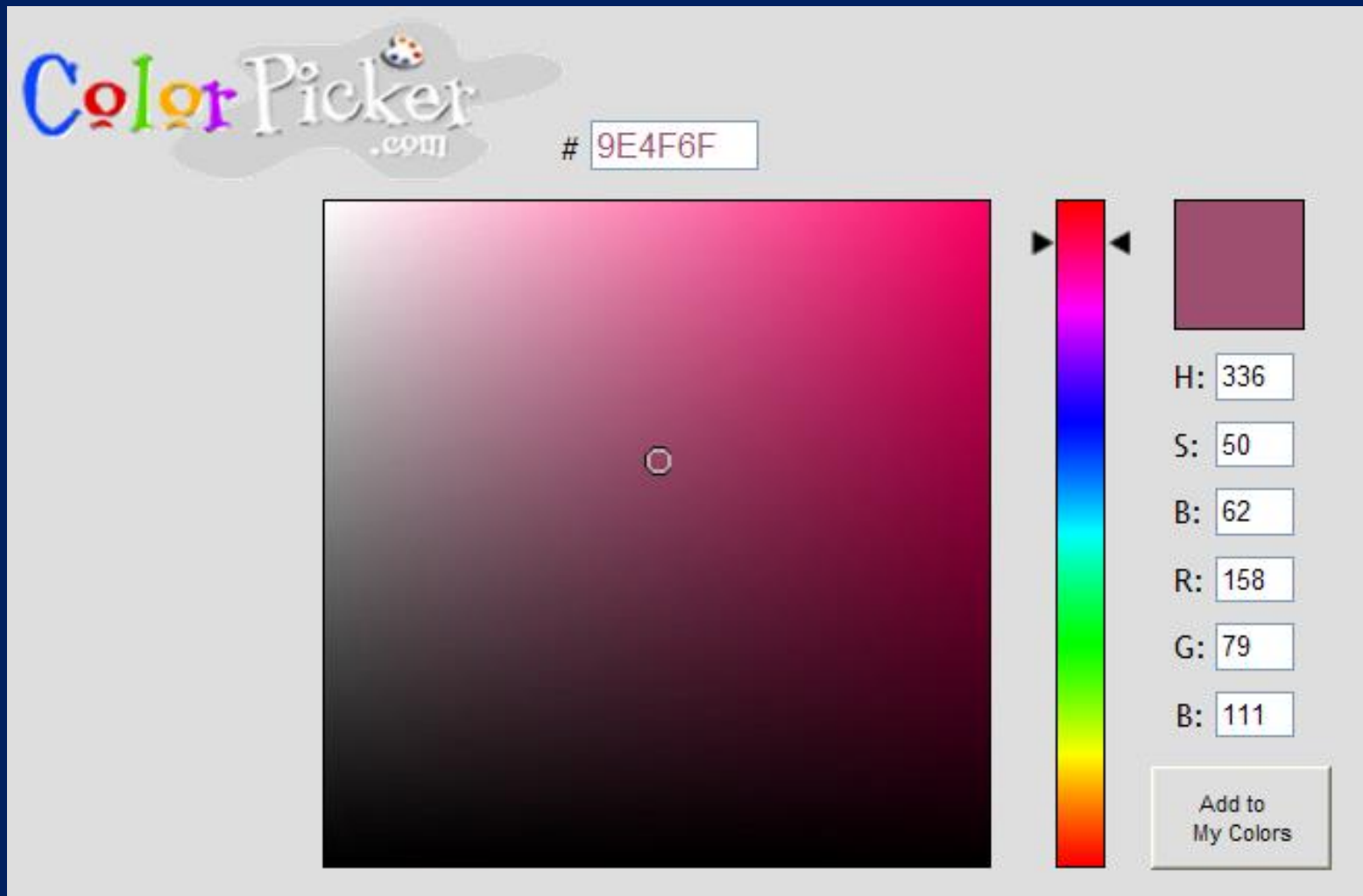
```
</body>
```

- Line: <hr>

- Line break:

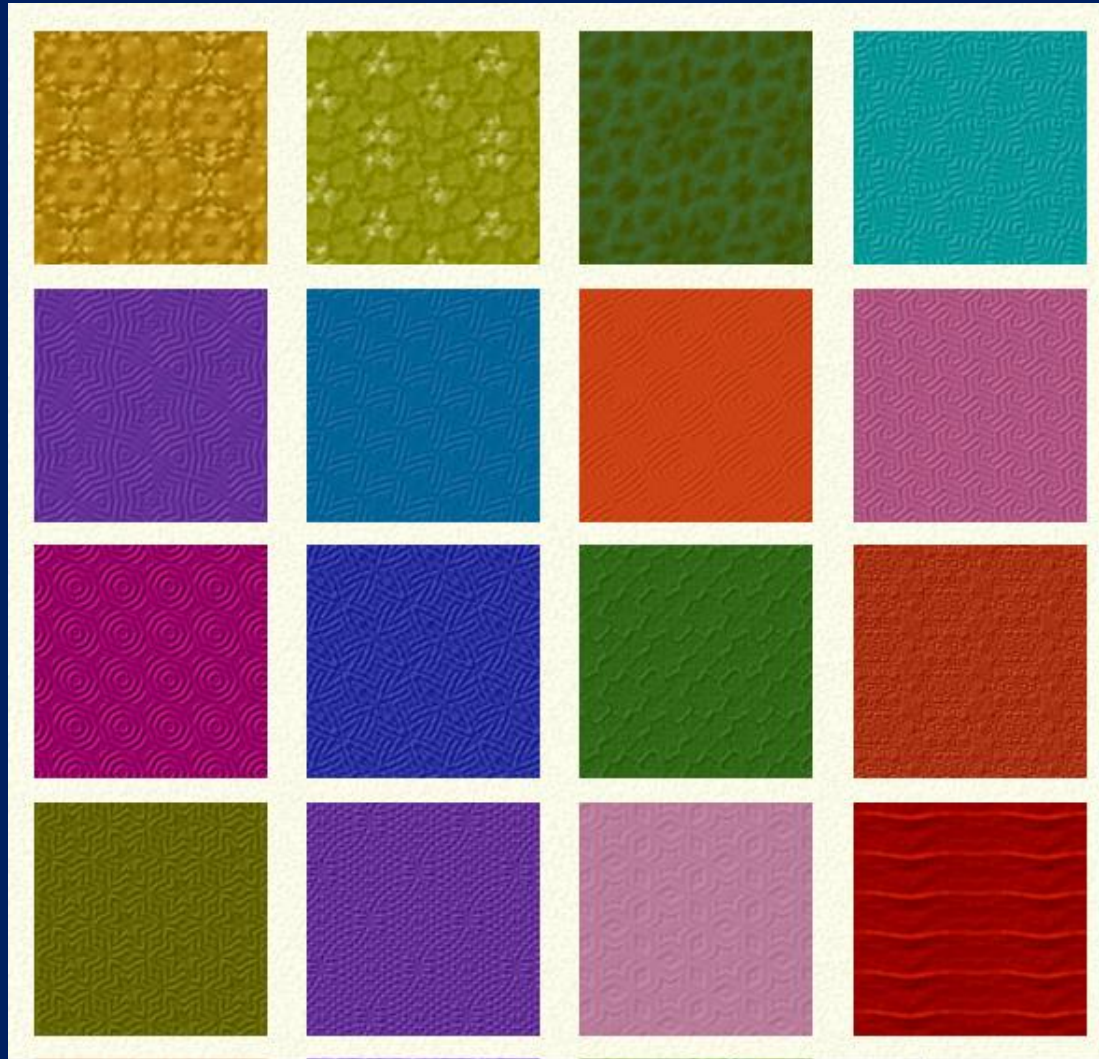
Color Picker

<http://www.colorpicker.com>



Background Image

<http://www.backgroundcity.com>



Example

```
<html>  
<head><title>Your Name</title></head>  
<body>  
<h1>Your Name</h1>  
<center><img src=file></center>  
<ul>  
<li>Research interests:  
<li>Personal interests:  
<li>Hobby:  
</ul>  
</body></html>
```


Exercise 1

Write your own personal web page with the following contents.

- Name
- Your image
- Research interests
- Personal interests
- Hobby
- Links to your most favorite web sites.

Cascading Style Sheet (CSS)

- CSS is for describing display properties of content.
- CSS enables the separation of content from style.

▪ Example 1

Approach 1: No CSS

```
<h1><font color="red">Hello World</font></h1>
```

Approach 2: With CSS

```
<h1 style="color:red">Hello World</h1>
```

```
style.css
```

```
H1{ color : red; }
```

Approach 3: With CSS file

```
<link href="style.css" rel="stylesheet" type="text/css">
```

```
<h1>Hello World</h1>
```

```
<h1 style="color:blue">Hello World in BLUE</h1>
```

CSS Usage: Example 2

```
/* unvisited link */
```

```
a:link {  
    color        : #000000;  
    font         : 14px arial;  
}
```

```
/* visited link */
```

```
a:visited {  
    color        : #0000FF;  
    font         : 10px arial;  
}
```

```
/* mouse over link */
```

```
a:hover {  
    color        : #FF0000;  
    font         : 20px arial;  
    background-color : #FF704D;  
}
```

```
/* selected link */
```

```
a:active {  
    color        : #00FFFF;  
    font         : 16px arial;  
}
```

ID Style

File: index.html

```
<html>
```

```
<head>
```

```
<link href="style.css" rel="stylesheet" type="text/css">
```

```
</head>
```

```
<body>
```

```
<div id=blue_text>
```

```
Hello World
```

```
</div>
```

```
</body>
```

```
</html>
```

File: style.css

```
#blue_text {  
    font           : 11px georgia;  
    color          : #0000FF;  
    font-weight    : bold;  
    text-decoration : none;  
}
```

Class Style

File: index.html

```
<html>
```

```
<head>
```

```
<link href="style.css" rel="stylesheet" type="text/css">
```

```
</head>
```

```
<body>
```

```
<div class=red_text>
```

```
Hello World
```

```
</div>
```

```
</body>
```

```
</html>
```

File: style.css

```
.red_text {  
    font           : 11px georgia;  
    color          : #FF0000;  
    font-weight    : bold;  
    text-decoration : none;  
}
```

Exercise 2

Modify your personal web page to make use of CSS.