CSS for XML
(Cascading Style Sheet)
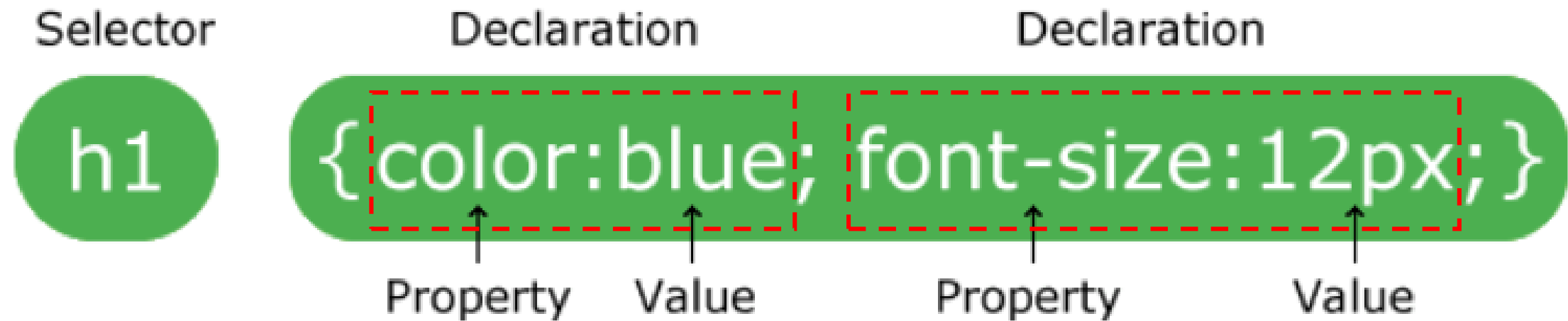
Part 1

w3school

What is CSS?
w3school

- **CSS** stands for **C**ascading **S**tyle **S**heets
- CSS describes **how XML and HTML elements are to be displayed on screen, paper, or in other media**
- CSS **saves a lot of work**. It can control the layout of multiple web pages all at once

CSS Syntax

A CSS rule-set consists of a selector and a declaration block:

Selector   Declaration   Declaration

h1 { color:blue; font-size:12px; }

Property   Value   Property   Value

The selector points to the HTML element you want to style.

The declaration block contains one or more declarations separated by semicolons.

Each declaration includes a CSS property name and a value, separated by a colon.

CSS/HTML support [140 standard color names](#).

CSS Color Names

In CSS, a color can be specified by using a color name:

Tomato	Orange	DodgerBlue	MediumSeaGreen
Gray	SlateBlue	Violet	LightGray

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
  background-color: lightblue;
}
h1 {
  color: white;
  text-align: center;
}
p {
  font-family: verdana;
  font-size: 20px;
}
</style>
</head>
<body>
<h1>My First CSS Example</h1>
<p>This is a paragraph.</p>
</body>
</html>
```

html_css_demo1.html

My First CSS Example

This is a paragraph.

```xml
<?xml version="1.0" encoding="euc-kr" standalone="yes"?>
<?xml-stylesheet type="text/css" href="xml_css1.css"?>
<xmlCssDemo>
```

Provide a proper XML data

```xml
</xmlCssDemo>
```


My First CSS Example

This is a paragraph.

Try to provide a CSS for the given effect.

```
<!DOCTYPE html>
<html>
<body>
<h1 style="background-color:DodgerBlue;">Hello World</h1>
<p style="background-color:Tomato;">
Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet
dolore magna aliquam erat volutpat.
Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea
commodo consequat.
</p>

</body>
</html>
```

Hello World

Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.

```
<?xml version="1.0" encoding="euc-kr" standalone="yes"?>
<?xml-stylesheet type="text/css" href="xml_css2.css"?>
<xmlCssDemo>
```

Provide a proper XML data

```
</xmlCssDemo>
```

Try to provide a CSS for the given effect.

```
<!DOCTYPE html>
<html>
<body>
<h3 style="color:Tomato;">Hello World</h3>
<p style="color:DodgerBlue;">Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed
diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.</p>
<p style="color:MediumSeaGreen;">Ut wisi enim ad minim veniam, quis nostrud exerci
tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.</p>
</body>
</html>
```

```
<?xml version="1.0" encoding="euc-kr" standalone="yes"?>
<?xml-stylesheet type="text/css" href="xml_css3.css"?>
<xmlCssDemo>
```

```
</xmlCssDemo>
```

```xml
<?xml version="1.0" encoding="euc-kr" standalone="yes"?>
<?xml-stylesheet type="text/css" href="mail2.css"?>
<mail>
<receiver>
<name>Tom</name>
<mail-address>iij@hanmail.net</mail-address>
</receiver>
<body>
<contents>Submit proposal.</contents>
<postscript>Due 5 pm.</postscript>
<attached-file>form.doc</attached-file>
</body>
<sender>
<name>Jane</name>
<mail-address>danny@goodnews.or.kr</mail-address>
</sender>
</mail>
```

Tom *iij@hanmail.net*
Submit proposal. *Due 5 pm. form.doc*
Jane *danny@goodnews.or.kr*

Make a CSS for "mail2.xml." to make the given result.

```css
receiver, sender, body
{
display: block;
}
sender
{
text-align: right;
}
name, contents
{
font-weight: bold;
}
mail-address, postscript,
attached-file
{
font-style: italic;
}
```

```xml
<?xml version="1.0" encoding="euc-kr"
standalone="yes"?>
<?xml-stylesheet type="text/css" href="mail2.css"?>
<mail>
<receiver>
<name>Tom</name>
<mail-address>iij@hanmail.net</mail-address>
</receiver>
<body>
<contents>Submit proposal.</contents>
<postscript>Due 5 pm.</postscript>
<attached-file>form.doc</attached-file>
</body>
<sender>
<name>Jane</name>
<mail-address>danny@goodnews.or.kr</mail-address>
</sender>
</mail>
```

Tom *iij@hanmail.net*
Submit proposal. *Due 5 pm. form.doc*

                                    Jane *danny@goodnews.or.kr*

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type = "text/css" href = "cd_catalog_basic.css"?>
<catalog>
 <cd>
   <title>Empire Burlesque</title>
   <artist>Bob Dylan</artist>
   <country>USA</country>
   <company>Columbia</company>
   <price>10.90</price>
   <year>1985</year>
 </cd>
 ...
```

Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985
Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

W3C School CSS Exercise
cdCatalog.xml, cd_catalog_basic.css

```css
catalog {
    background-color: white;
    font-size: 20pt;
}
cd {
    display: block;
    text-align: left;
}
title {
    display: block;
    color: red;
    font-family: verdana;
}
artist, country  {
    display: block;
    color: blue;
}
company, price, year {
    display: block;
    color: black;
```

```xml
<catalog>
  <cd>
    <title>Empire Burlesque</title>
    <artist>Bob Dylan</artist>
    <country>USA</country>
    <company>Columbia</company>
    <price>10.90</price>
    <year>1985</year>
  </cd>
```

Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985
Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type = "text/css" href =
"cd_catalog_original.css"?>
<catalog>
  <cd>
    <title>Empire Burlesque</title>
    <artist>Bob Dylan</artist>
    <country>USA</country>
    <company>Columbia</company>
    <price>10.90</price>
    <year>1985</year>
  </cd>
  ...
```
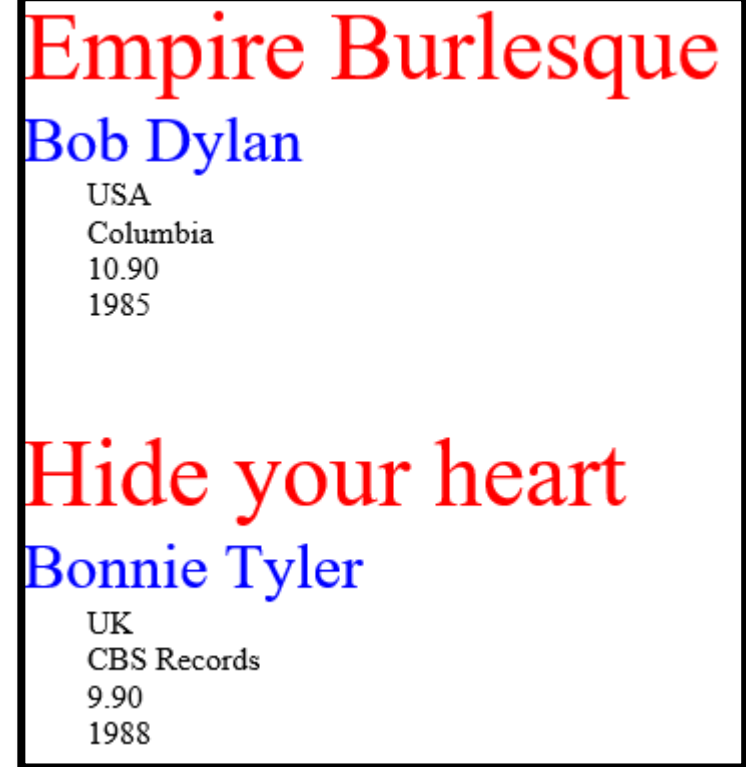
Font Size
30
20
10

Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985

Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

```css
catalog {
    background-color: white;
}
cd {

    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
}
title {
    display: block;
    color: red;
    font-size: 30pt;
}
artist {
    display: block;
    color: blue;
    font-size: 20pt;
}
```

```css
country, price, year, company {
    display: block;
    color: black;
    font-size: 10pt;
    margin-left: 20pt;
}
```


Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985

Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type = "text/css" href = "cd_catalog1.css"?>
<catalog>
  <cd>
    <title>Empire Burlesque</title>
    <artist>Bob Dylan</artist>
    <country>USA</country>
    <company>Columbia</company>
    <price>10.90</price>
    <year>1985</year>
  </cd>
  ...
```

Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985

Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

```css
catalog {
    background-color: lightblue;
    width: 70%;
}
cd {
    display: block;
    margin-bottom: 30pt;
    margin-left: 10pt;
    color: white;
    text-align: left;
}
title {
    display: block;
    color: red;
    font-size: 20pt;
    font-family: verdana;
```

```css
artist, country  {
    display: block;
    color: blue;
}
company, price, year {
    display: block;
    color: black;
}
```

Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985

Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

Greatest Hits

```css
catalog {
    background-color: lightblue;
    width: 50%;
}
cd {
    display: block;
    margin-bottom: 30pt;
    margin-left: 10pt;
    color: white;
    text-align: left;
}
title {
    display: block;
    color: red;
    font-size: 30pt;
    font-family: verdana;
}
```

```css
artist, country  {
    font-size: 20pt;
    display: block;
    color: MediumSeaGreen;
}
company, price, year {
    font-size: 20pt;
    font-weight:  bold;
    display: block;
    color: SlateBlue;
}
```


Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985

Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

Try to change font weight and background color.

```css
catalog {
    background-color: lightblue;
    width: 50%;
}
cd {
    display: block;
    margin-bottom: 30pt;
    margin-left: 10pt;
    color: white;
    text-align: center;
}
title {
    display: block;
    color: red;
    background-color: yellow;
    font-size: 30pt;
    font-family: verdana;
}

artist, country  {
    font-size: 20pt;
    display: block;
    color: MediumSeaGreen;
    background-color: orange;
}
company, price, year {
    font-size: 20pt;
    font-weight: bold;
    display: block;
    color: SlateBlue;
    background-color: tomato;
}
```

Try to use float property.

Empire Burlesque

Bob DylanUSA

198510.90Columbia

Hide your heart

Bonnie TylerUK

19889.90CBS Records

```css
catalog {
    /*  background-color: lightblue; */
    width: 50%;
}
cd {
    display: block;
    margin-bottom: 50pt;
    margin-left: 10pt;
    color: white;
    text-align: center;
}
title {
    display: block;
    color: red;
 /*   background-color: yellow; */
    font-size: 30pt;
    font-family: verdana;
```

```css
}artist, country  {
    font-size: 20pt;
    display: block;
    color: MediumSeaGreen;
    background-color: orange;
    float: left;
}
company, price, year {
    font-size: 20pt;
    font-weight: bold;
    display: block;
    color: SlateBlue;
    background-color: tomato;
    float: right;
}
```

Width and Height Demension

Empire Burlesque
Bob Dylan
USA
Columbia
10.90
1985
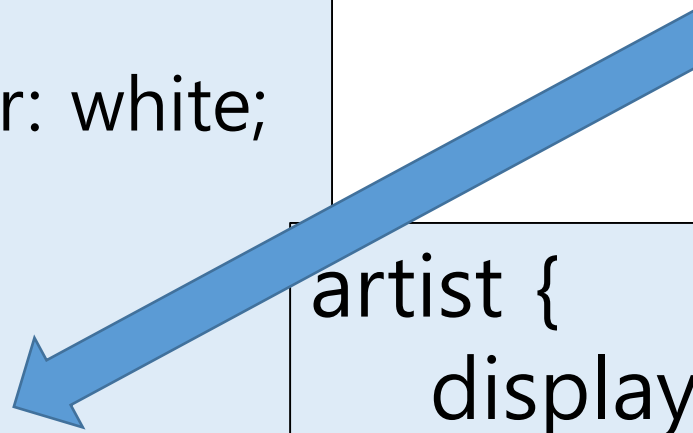
Hide your heart
Bonnie Tyler
UK
CBS Records
9.90
1988

width: 300px;
height: 200px;
background: cyan;

```css
catalog {
    background-color: white;
    width: 100%;
}
cd {
    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
}
title {
    display: block;
    color: #ff0000;
    font-size: 20pt;
}
```

```css
width: 300px;
height: 200px;
background: cyan;
artist {
    display: block;
    color: #0000ff;
    font-size: 20pt;
}
country, price, year, company {
    display: block;
    color: #000000;
    margin-left: 20pt;
}
```

```css
cd {
    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
    font-family: Arial, "Times New Roman", Times, serif;

    width: 300px;
    height: 200px;
    background: cyan;
}
```

```
cd {
    height: 200px;
    width: 300px;
    background: cyan;
    border: 1px solid black;
    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
    font-family: Arial, "Times New Roman", Times,
serif;

}
```

```css
title {
    display: block;
    color: #ff0000;
    font-size: 20pt;

}
title:after {
    content: ' ₩00A7';
}
```

Empire Burlesque §
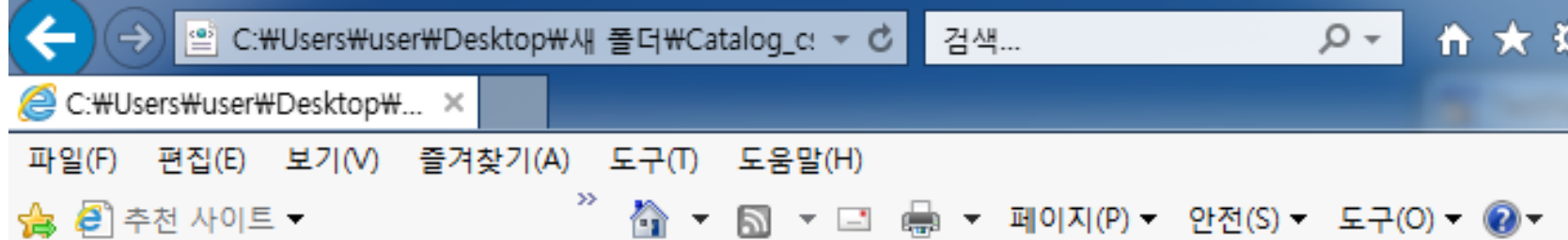
Bob Dylan

USA
Columbia
10.90
1985

Hide your heart §

Bonnie Tyler

UK
CBS Records
9.90
1988

```
cd {
    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
    font-family: Arial, "Times New Roman", Times, serif;

    width: 300px;
    height: 200px;
    background: cyan;
    border: 1px solid black;
}
```

Empire Burlesque §
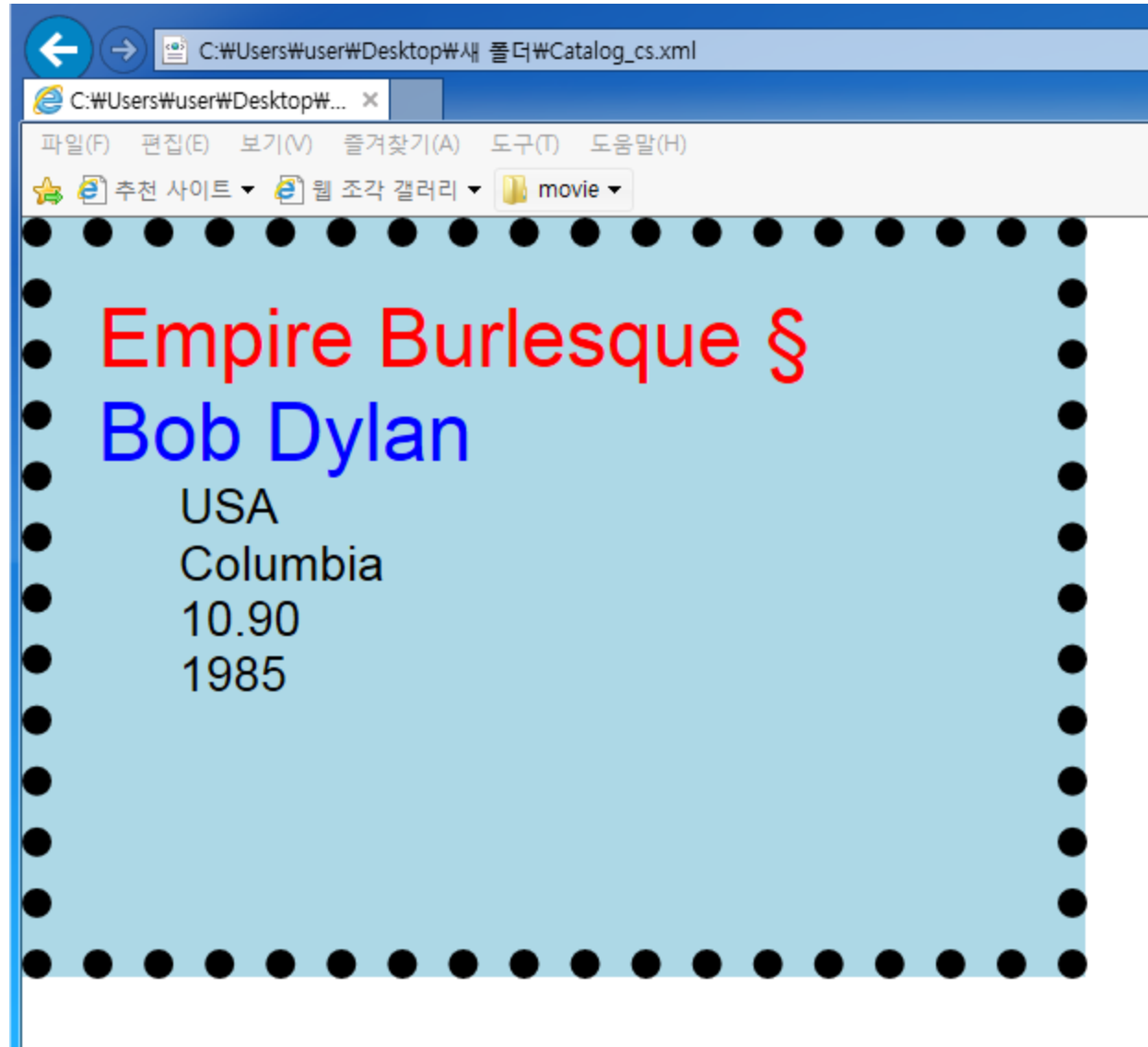
Bob Dylan

USA

Columbia

10.90
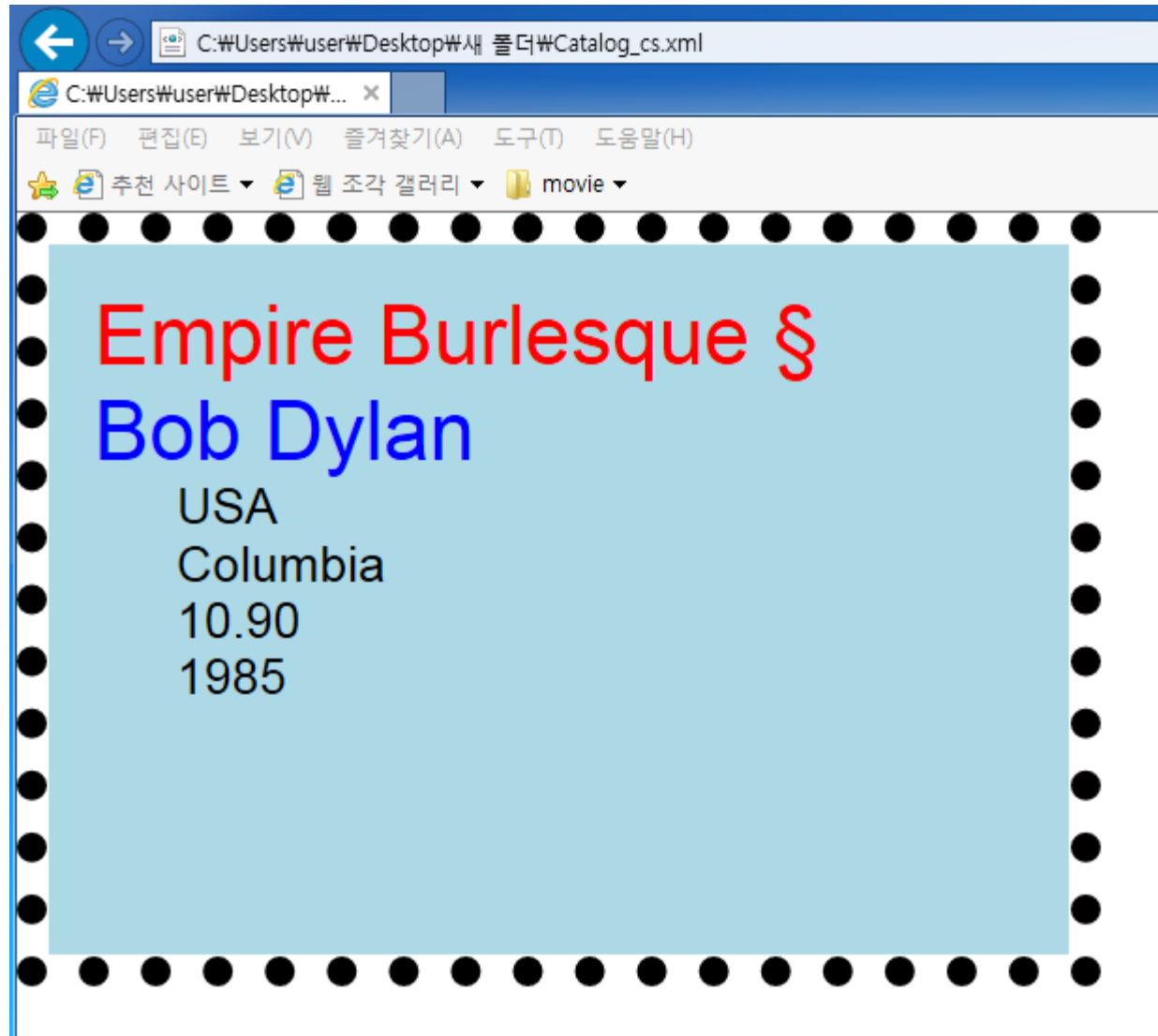
1985

```css
cd {
    height: 200px;
    width: 300px;

    border: 10px dotted black;
    padding: 15px;
    background: lightblue;
    background-clip: border-box;

display: block;
    margin-bottom: 30pt;
    margin-left: 0;
    font-family: Arial, "Times New Roman", Times, serif;
}
```

Empire Burlesque §

Bob Dylan

USA
Columbia
10.90
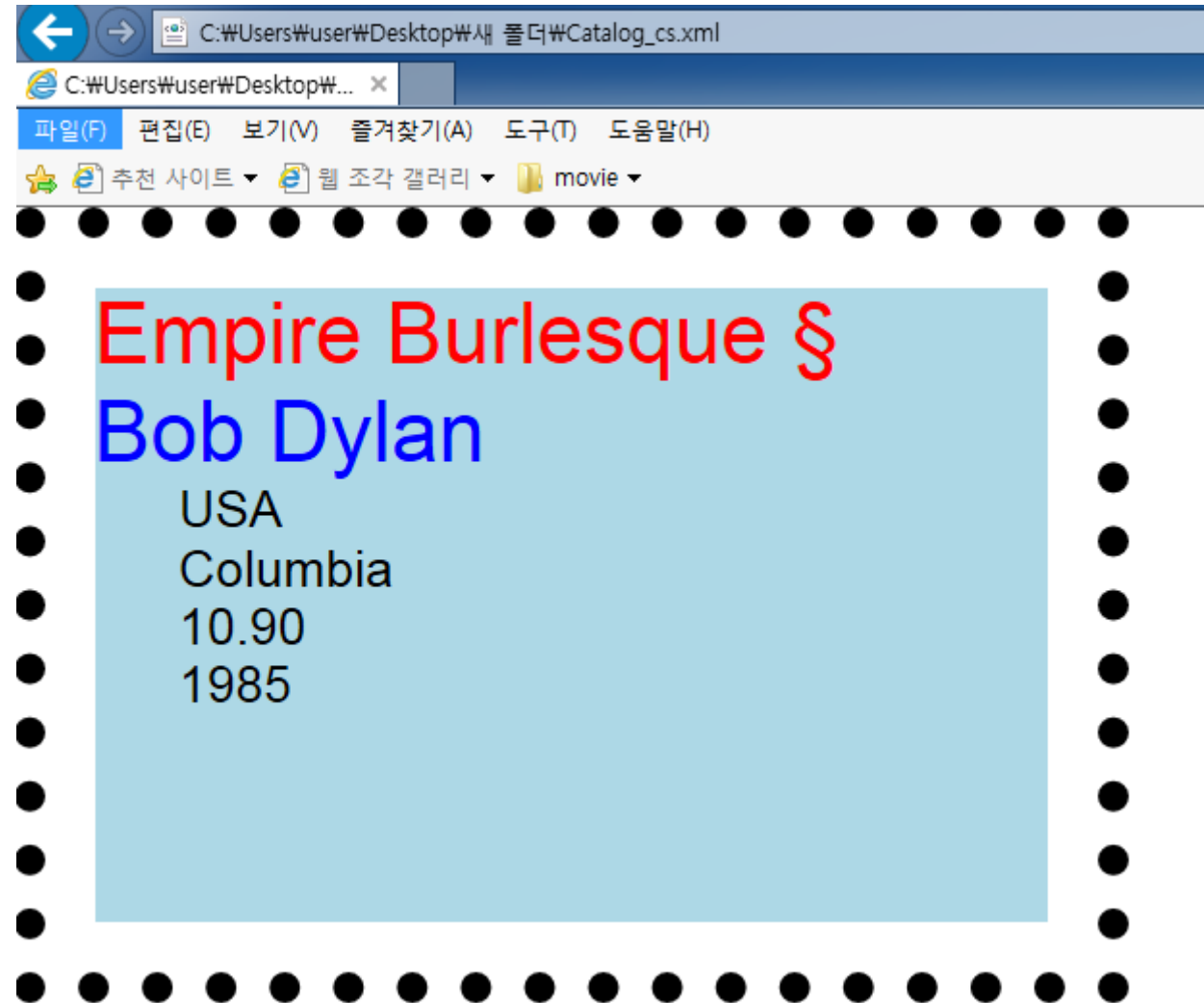1985

```
cd {
    height: 200px;
    width: 300px;

    border: 10px dotted black;
    padding: 15px;
    background: lightblue;

    background-clip: padding-box;
    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
    font-family: Arial, "Times New Roman", Times, serif;

}
```

Compare padding of 15 and 30.

Empire Burlesque §

Bob Dylan

USA
Columbia
10.90
1985

```css
cd {
    height: 200px;
        width: 300px;
    background: cyan;
        border: 1px solid black;
  border: 10px dotted black;
    padding: 15px;
    background: lightblue;
    background-clip: content-box;

    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
    font-family:Arial, "Times New Roman", Times, serif;
```

background-clip: **content-box**;

```css
cd {
    height: 200px;
    width: 300px;
    background: cyan;
    border: 1px solid black;
    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
    font-family: Arial, "Times New Roman", Times, serif;
}
cd {transform: rotate(20deg);}
```

Burlesque §

Bob Dylan

USA

Columbia

10.90

1985

Hide your heart §

Bonnie Tyler

UK

CBS Records

9.90