

12. CSS₃ Introduction

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CSS3 Introduction

❏ CSS3 ?

- The latest standard for CSS
- Completely backwards-compatible with earlier versions of CSS

❏ CSS3 Modules

- CSS has been split into “modules”.
- Some of the most important CSS3 modules are
 - Selectors, Box Model, Backgrounds and Borders, Image Values and Replaced Content, Text Effects, 2D/3D Transformations, Animations, Multiple Column Layout, User Interface

❏ Check you browser *Try it!*

CSS3 Introduction (cont'd)

❏ CSS3 Rounded Corners

- Give any element “rounded corners” *Try it!*

❏ CSS3 Border Images *Try it!* *Try it!*

- You can use an image to be used as the border around an element.
- border-image property has three parts!
 - The image to use as the border
 - Where to slice the image
 - Define whether the middle sections should be repeated or stretched

CSS3 Introduction (cont'd)

❏ CSS3 Backgrounds

- ❏ CSS3 contains a few new background properties which allow greater control of the background element
- ❏ Background properties
 - background-size [Try it!](#)
 - background-origin : specifies where the background image is positioned [Try it!](#)
 - Multiple Background Images [Try it!](#)

❏ CSS3 Gradients

- ❏ Let you display smooth transitions between two or more specified colors
- ❏ Two types of gradients
 - Linear Gradients (goes down/up/left/right/diagonally) [Try it!](#)
 - Radial Gradients (defined by their center) [Try it!](#)

CSS3 Introduction (cont'd)

CSS3 Shadow Effects

- Can add shadow to text and to elements
- Properties
 - text-shadow [Try it!](#) [Try it!](#)
 - box-shadow [Try it!](#)

CSS3 Text

- Contains several new text features
- Text properties
 - text-overflow [Try it!](#)
 - word-wrap [Try it!](#)
 - word-break [Try it!](#)

CSS3 Introduction (cont'd)

CSS3 Web Fonts

- Allow Web designers to use fonts that are not installed on the user's computer
- When you have found/bought the font you wish to use, just include the font file on your web server, and it will be automatically downloaded to the user when needed
- Defined within the CSS3 @font-face rule *Try it!*

CSS3 Introduction (cont'd)

CSS3 2D transforms

- Allow you to translate, rotate, scale, and skew element
- 2d transform methods
 - [translate\(\)](#), [rotate\(\)](#), [scale\(\)](#), [skewX\(\)](#), [skewY\(\)](#), [matrix\(\)](#)

CSS3 3D transforms

- Allows you to format your elements using 3D transforms
- Some of the 3D transform methods
 - [rotateX\(\)](#), [rotateY\(\)](#), [rotateZ\(\)](#)

CSS3 Introduction (cont'd)

❖ CSS3 Transitions *Try it!* *Try it!*

- Allow you to change property values smoothly (from one value to another), over a given duration
- To do this, you must specify two things
 - The CSS property you want to add an effect to
 - The duration of the effect

❖ CSS3 Animations *Try it!*

- Allow animation of most HTML elements without using JavaScript or Flash

CSS3 Introduction (cont'd)

❖ CSS3 Multiple Columns *Try it!*

- Allow easy definition of multiple columns of text-just like in newspapers
- Multiple column properties
 - column-count, column-gap, column-rule-style, column-rule-width, column-rule-color, column-rule, column-span, column-width

❖ CSS3 User Interface

- Has new user interface features such as resizing elements, outlines, and box sizing
- User interface properties
 - resize *Try it!*
 - outline-offset *Try it!*

❖ CSS3 Box Sizing *Try it!*

- Allows us to include the padding and border in an element's total width and height