# PROGRAMING COOKBOOK

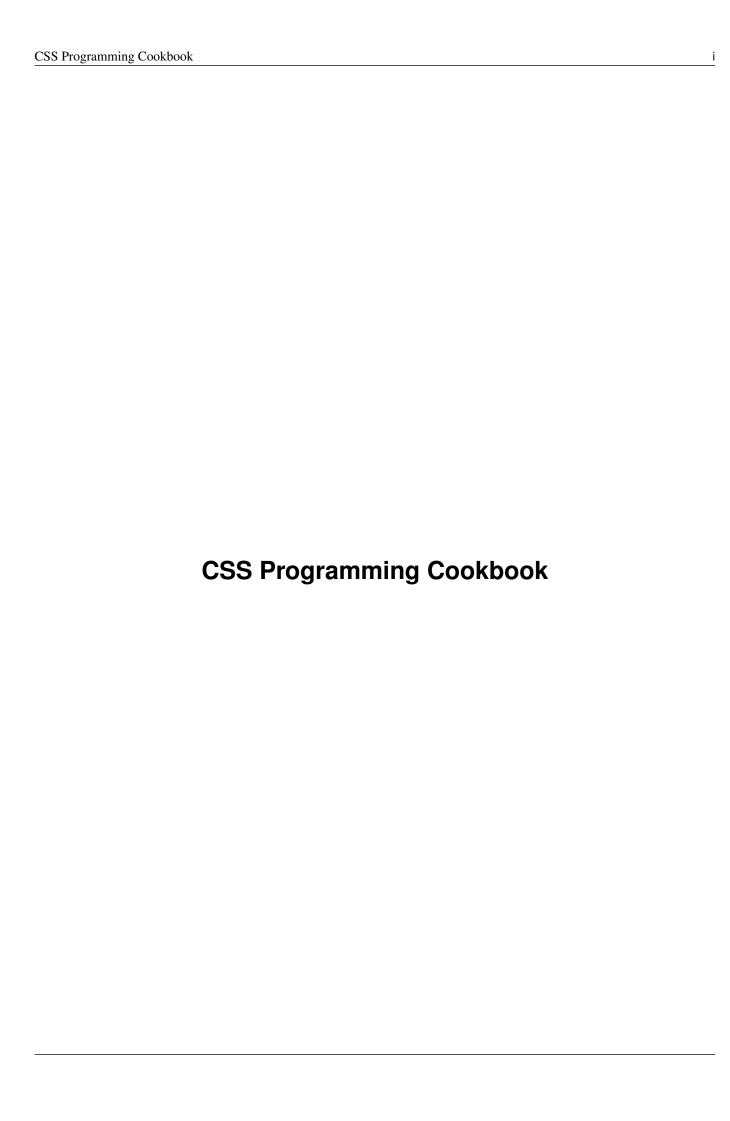
HOT RECIPES FOR CSS DEVELOPMENT





FABIO CIMO





# **Contents**

1	CSS	Inheritance	1
	1.1	Prerequisites	1
	1.2	Basic Application of Inherit	1
		1.2.1 Automatic Inheritance	2
		1.2.2 Forced/Applied Inheritance	3
	1.3	Cases and Examples	4
		1.3.1 Size and Background Inheritance	4
		1.3.2 Inheritance Manipulations	5
		1.3.3 Tag and Location Inheritance	7
		1.3.4 Class Inheritance	8
	1.4	Conclusion	9
	1.5	Download	9
2	CSS	Multiple Classes	10
	2.1	Predefine Classes & Attributes in CSS	10
		2.1.1 Alignment Classes	10
		2.1.2 Color Classes	11
		2.1.3 Size Classes	12
		2.1.4 Text Classes	12
		2.1.5 Elements Classes	13
	2.2	Application of Multiple Classes in HTML	13
		2.2.1 Set up the HTML	14
		2.2.2 Add multiple classes	15
	2.3	Some Considerations	19
		2.3.1 Do not Overwrite	19
		2.3.2 Avoid Cluttered Code	19
		2.3.3 Consider using Frameworks	20
	2.4	Conclusion	20
	2.5	Download	20

3	CSS	CSS Last Child				
	3.1	Basic Setup & Application	21			
	3.2	Cases and Examples	22			
	3.3	Conclusion	25			
	3.4	Download	25			
4	CSS	Table Design	26			
	4.1	The Initial Layout	26			
		4.1.1 Setting up the HTML	26			
		4.1.2 Understanding the Style Basics	27			
	4.2	Modifying Table Elements Styles	28			
		4.2.1 Spacing	28			
		4.2.2 Border Styling	30			
		4.2.3 Cell Styling	33			
	4.3	Advanced Layout & Style Customization	33			
		4.3.1 Layout Cases: Border-Collapse Property	33			
		4.3.2 Layout Cases: Border-Spacing Property	35			
		4.3.3 Layout Cases: Empty-Cells Property	36			
		4.3.4 The <i>colspan</i> Attribute	39			
		4.3.5 Table Design	40			
		4.3.6 Conclusion	41			
	4.4	Download	41			
5	CSS	S Button Style	42			
	5.1	Prerequisites	42			
	5.2	Basic Styling	43			
		5.2.1 Setting up the HTML	43			
		5.2.2 Setting up the CSS	44			
		5.2.3 Button States	44			
		It's all about design!	45			
		5.3.1 Start Small	46			
		5.3.2 Icons on Buttons	47			
		5.3.3 Gradients on Buttons	48			
		5.3.4 Patterns on Buttons	49			
	5.4	Conclusion	51			
	5.5	Download	51			
6	CSS	S Input Type Text	52			
	6.1		52			
	6.2 Styling a Text Input					
	6.3 Advanced Input Styling		<ul><li>53</li><li>55</li></ul>			
	6.4		57			
	6.5		57			
			,			

7	CSS	Text D	ecoration	58
	7.1	Basic S	Setup & Application	58
	7.2	Cases	and Examples	59
		7.2.1	Multiple Values Example	59
		7.2.2	The Text-Decoration Family	60
	7.3	Conclu	asion	62
	7.4	Downl	oad	62
8	CSS	Text Sl	hadow Example	63
	8.1	Basic S	Set Up	63
	8.2	Variati	ons	64
		8.2.1	Pressed Effect	65
		8.2.2	Hard Shadow Effect	65
		8.2.3	Double Shadow Effect	66
		8.2.4	Distant Down Shadow Effect	66
		8.2.5	Mark Dotto's 3D Text Effect	67
		8.2.6	Gordon Hall's True Inset Text Effect	68
		8.2.7	Glowing Text Shadow Effect	68
		8.2.8	Soft Emboss Shadow Effect	69
	8.3	Conclu	ısion	70
	8.4	Downl	oad	70
9	CSS	Box Sh	nadow Example	71
		•	71	
		9.1.1		71
		9.1.2	•	72
		9.1.3		72
	9.2	Basic I		73
		9.2.1		73
		9.2.2		73
* * *			ced 3D Looking Box Shadows	74
			ccu JD Looking Dox Shadows	
		9.3.1	· · · · · · ·	74
		9.3.1 9.3.2	Soft Box Shadow on Both Sides	74 76
		9.3.2	Soft Box Shadow on Both Sides	76
		9.3.2 9.3.3	Soft Box Shadow on Both Sides	76 77
	9.4	9.3.2 9.3.3 9.3.4 9.3.5	Soft Box Shadow on Both Sides	76 77 78

10	CSS Horizontal Menu	82
	10.1 Basic Setup	82
	10.2 Coding the Menu	82
	10.3 Advanced and Professional Menus	84
	10.3.1 Example 1	84
	10.3.2 Example 2	85
	10.4 Conclusion	87
	10.5 Download	88
11	CSS Rotate Image	89
	11.1 Basic Setup & Application	89
	11.2 Cases and Examples	90
	11.3 Conclusion	94
	11.4 Download	94
12	CSS Hover Effects	95
	12.1 Basic Setup & Application	95
	12.2 Cases and Examples	96
	12.2.1 Button Hover Effects	96
	12.2.2 Other Elements Hovers	97
	12.2.3 Box Hover Animation and Added Text	98
	12.3 Conclusion	99
	12.4 Download	100

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## **Preface**

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language. Although most often used to change the style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.

CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple HTML pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content, such as semantically insignificant tables that were widely used to format pages before consistent CSS rendering was available in all major browsers. CSS makes it possible to separate presentation instructions from the HTML content in a separate file or style section of the HTML file. (Source: https://en.wikipedia.org/wiki/Cascading\_Style\_Sheets)

In this ebook, we provide a compilation of CSS based examples that will help you kick-start your own web projects. We cover a wide range of topics, from text styling and table design, to class inheritance and hover effects. With our straightforward tutorials, you will be able to get your own projects up and running in minimum time.

## **About the Author**

Fabio is a passionate student in web tehnologies including front-end (HTML/CSS) and web design. He likes exploring as much as possible about the world wide web and how it can be more productive for us all. Currently he studies Computer Engineering, at the same time he works as a freelancer on both web programming and graphic design.

## **Chapter 1**

## **CSS Inheritance**

In this example, we'll focus on a css property value that I guess many of you ignore (do not use) while styling elements on websites.

It is inherit. Before we go straight into that, know the following:

Each element in HTML is part of a *tree*, and every element (except the initial html element) has a parent element that encloses it.

Whatever styles applied to the parent element can be applied to the elements inside it if the properties are inherited.

Below, we're going to have a look at several cases of inheritance property.

#### 1.1 Prerequisites

Create a html document with the basic syntax inside like this:

In the html section, we'll add some elements to show their relation to other elements and understand when they automatically inherit property values from their parents and when not.

Lets first see a basic application of the inherit property value.

### 1.2 Basic Application of Inherit

The inherit property value is at some cases automatically applied to child elements, and at other cases needs to be applied manually.

#### 1.2.1 Automatic Inheritance

I always tend to give the body element a custom font-family so that all elements have the same font applied.

In other words, all elements inherit the font-family property from the body parent.

Look at the code below:

```
<!-- HTML SECTION -->
This is a <span>parent</span> element.

<div class="child">This is a <span>child</span> element.

This is a <a href="#">link</a> inside a paragraph

<!-- end child element -->
</div><!-- end parent element -->
```

I have added a parent division and inside that two children, another div and a paragraph.

The classes given are so that we can give attributes to parent and see the results to children.

Now below look at the some initial properties I've given to these elements:

Now to see what what properties have been inherited look at the browser view:

# This is a parent element. This is a child element.

# This is a <u>link</u> inside a paragraph



Figure 1.1: Initial Test on Inheritance

Seen this result, we can state that the following elements get inherited properties automatically:

- 1. All elements inherit the font-family property from a higher level parent, which is body. Notice all three lines have the same font applied.
- 2. All child elements inherit the color (font-color) from the parent element. Notice all the lines have the same gray color applied (except span and link).
- 3. The parent span element is set to have a green color, but also the child span gets a green font-color. So the child inherits from parent automatically span elements too.

Think everything is inherited?

The a anchor element has not been styled, but it shows in blue and underlined. That's because these two properties are set to be default ones for all anchor tags over the page.

The link did not inherit the color from its parent element, because it has a different color (blue). Look at the border. It has only been applied to the parent element, and it shows only there. That's why we sometimes need to apply inheritance manually to make these element fit the desired view.

#### 1.2.2 Forced/Applied Inheritance

Simple as that, refer to the .child class and inherit the border for the child and color property from parent for the link:

The browser view:

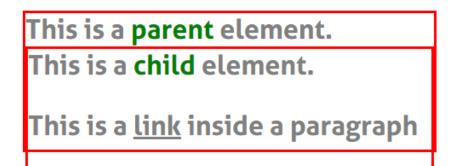




Figure 1.2: Inherit Value Applied to Color and Border

Notice that:

- 1. The link became the **same color as the parent** (its parent can be considered both the parent class element and the child class element, because the paragraph is nested inside the child element).
- 2. The border attributes got applied to the child element which contains another element inside, that's why you see the second smaller red border wrapping both the second and third line (child and paragraph elements).

That was a basic application of the inherit property value. Now let's see other cases and examples.

#### 1.3 Cases and Examples

Here we look at some essential cases and examples where we can use the inherit property value.

#### 1.3.1 Size and Background Inheritance

Change the html code to accommodate the following image and text elements:

and the css code accordingly:

Now notice the child element inherits the background and size attributes from the parent:

Everything you can imagine is real.
-The Parent Image



Glad to have looked after you.
-The Child Image

Figure 1.3: Size and Background Values Inherited

#### 1.3.2 Inheritance Manipulations

You can also use the inherit property value to avoid inheritance from one level higher parent.

Look at the codes below:

HTML

#### CSS:

```
.parent h3 {
     font-variant: small-caps;
     color: red;
}
```

```
.parent p {
       text-indent: 1em;
       color: blue;
.parent button {
       padding: 1em 2em;
        background-color: gray;
        color: white;
        border-radius: 0.5em;
        border: 0.1em solid gray;
}
.child2 p {
                                                               /\star declined inherited attributes \leftrightarrow
   from parent */
        text-indent: inherit;
        color: inherit;
}
.child2 h3 {
                                                      /\star declined inherited attributes from \leftrightarrow
   parent */
       font-variant: inherit;
       color: inherit;
}
                                                      / \star \ \text{declined inherited attributes from} \ \leftarrow
.child2 button {
   parent */
       background-color: inherit;
        color: inherit;
```

Lets look at the browser view and then comment it:

#### A TITLE HERE

A paragraph text here



#### A title here

A paragraph text here

A button here



Figure 1.4: Vice-Versa Inheritance

Notice that the parent attributes are applied to the first child but not to the second one.

That is because we chose to inherit attributes when they were already automatically inherited.

This case would result in an inheritance of the default attributes of a higher level parent (i.e body).

#### 1.3.3 Tag and Location Inheritance

#### Tag Inheritance

To explain this, take for example the button tag of html:

```
<button>Button</putton>
```

With no styling at all, this element has already a view (attributes):





Figure 1.5: Tag Inheritance - Button Example

You can see it has a border, a gradient background, a hover state ect.

This is called tag inheritance, it means the element inherits default properties/attributes pre set by the browser.

Whenever you style a button, you just override the browser default properties for that element.

#### • Location Inheritance

Basically, location inheritance means using the same attributes for a set of elements under the same tag/class.

For example, if you want to have all titles styled with a green color and bold you could just refer to the following:

```
.title {
    color: green;
    font-weight: bold;
    font-size: 2em;
}
```

And apply this class to all elements wrapping a title like so:

Notice that elements given the title class now have a title look and feel.

# 2. Why us?

Just a paragraph to show that this is not a title

- First
- Second
- Third



# 3. Help Center

Figure 1.6: Location Inheritance - Title Example

#### 1.3.4 Class Inheritance

Class inheritance is more and more being used in nowadays websites.

It means to apply certain styles from a predefined class, and other styles from another predefined class.

Take, for example, the multiple classes application in css, like below:

#### **HTML**

#### CSS

```
.text-style-1 {
        color: #50838e;
        font-weight: italic;
        font-size: 1.2em;
}

.link {
        color: blue;
        text-decoration: underline;
}

.bold {
        font-weight: bolder;
}
```

So above I have declared three classes and given them attributes.

Then, I have used them to style the elements by giving them these classes.

- · This will be just a text line
- Download Now
- · Third line goes here



Figure 1.7: Class Inheritance - Text Example

Now all three lines will have the attributes of text-style-1 but in addition to that, the second li is going to have added the attributes of the link class and the bold class.

We can say that the second line inherits all ul attributes and just keeps adding new (or overriding existing) attributes.

#### 1.4 Conclusion

On a more professional approach, we can state that using inheritance is not of much usage as most elements will need specific styling and independence from parent elements they are in.

However, when using inheritance property value to give elements styling attributes, keep in mind that inherit can be applied just as a single value (i.e you can't have something like: border: inherit 1em #ccc; ) so you don't get individual values inherited.

If you want to see the browser default styles (from which your element attributes are inherited), you can inspect element and check "Show Inherited Properties" in Chrome.

#### 1.5 Download

Download You can download the full source code of this example here: CSS Inheritance Example