

# Styling tables

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Styling an HTML table isn't the most glamorous job in the world, but sometimes we have to do it. This article provides a guide to making HTML tables look good, with some of the features detailed in the previous articles.

Prerequisites: HTML basics (study Introduction to HTML), HTML tables (see

the HTML tables module(TBD)), and an idea of how CSS

works (study Introduction to CSS.)

**Objective:** To learn how to effectively style HTML tables.

## A typical HTML table 🔗

Let's start by looking at a typical HTML table. Well, I say typical — most HTML table examples are about shoes, or the weather, or employees; we decided to make things more interesting by making it about famous punk bands from the UK. The markup looks like so:

```
1
    <caption>A summary of the UK's most famous punk bands/caption>
2
    <thead>
3
     >
4
      Band
5
      Year formed
6
      No. of Albums
7
      Most famous song
8
     9
    </thead>
10
   11
     12
      Buzzcocks
13
      1976
14
      9
15
      Ever fallen in love (with someone you shouldn't've)
16
     17
     18
      The Clash
19
      1976
20
      6
21
22
      London Calling
     23
24
      ... some rows removed for brevity
25
26
27
     The Stranglers
28
      1974
29
      17
30
      No More Heroes
31
     32
    33
    <tfoot>
34
     35
      Total albums
36
37
      77
     38
    </tfoot>
39
  40
```

The table is nicely marked up, easily styleable, and accessible, thanks to features such as scope, <caption>, <thead>, , etc. Unfortunately, it doesn't look good when rendered on the screen (see it live at punk-bands-unstyled.html):

A summary of the UK's most famous punk bands

Band	Year formed	No. of Albums	Most famous song
Buzzcocks	1976	9	Ever fallen in love (with someone you shouldn't've)
The Clash	1976	6	London Calling
The Damned	1976	10	Smash it up
Sex Pistols	1975	1	Anarchy in the UK
Sham 69	1976	13	If the kids are united
Siouxsie and the Banshees	1976	11	Hong Kong Garden
Stiff Little Fingers	1977	10	Suspect Device
The Stranglers	1974	17	No More Heroes
Total albums		77	

It just looks cramped, hard to read, and boring. We need to use some CSS to fix this up.

#### Active learning: Styling our table 🔗

In this active learning section we are going to work through styling our table example together.

- 1. To start with, make a local copy of the sample markup, download both images (noise and leopardskin), and put the three resulting files in a working directory somewhere on your local computer.
- 2. Next, create a new file called style.css and save it in the same directory as your other files.
- 3. Link the CSS to the HTML by placing the following line of HTML inside your <head>:

# Spacing and layout &

The first thing we need to do is sort out the spacing/layout — default table styling is so cramped! To do this, add the following CSS to your style.css file:

```
/* spacing */
 1
 2
     table {
 3
       table-layout: fixed;
 4
       width: 100%;
 5
       border-collapse: collapse;
 6
       border: 3px solid purple;
 7
     }
 8
 9
     thead th:nth-child(1) {
10
       width: 30%;
11
12
     }
13
     thead th:nth-child(2) {
14
       width: 20%;
15
     }
16
17
     thead th:nth-child(3) {
18
       width: 15%;
19
     }
20
21
22
     thead th:nth-child(4) {
       width: 35%;
23
     }
24
25
26
     th, td {
27
       padding: 20px;
28
```

The most important parts to note are as follows:

• A table-layout value of fixed is generally a good idea to set on your table, as it makes the table behave a bit more predictably by default. Normally, table columns tend to be sized according to how much content they contain, which produces some strange results. With table-layout: fixed, you can size your columns according to the width of their headings, and then deal with their content as appropriate. This is why we've selected the four different headings with the thead th:nth-child(n) (:nth-child) selector ("Select the nth child that is a element in a sequence, inside a <thead> element") and given them set percentage widths. The entire column width follows the

width of its heading, making for a nice way to size your table columns. Chris Coyier discusses this technique in more detail in Fixed Table Layouts.

We've coupled this with a width of 100%, meaning that the table will fill any container it is put in, and be nicely responsive (although it would still need some more work to get it looking good on narrow screen widths).

A border-collapse value of collapse is a standard best practice for any table style
effort. By default, when you set borders on table elements, they will all have spacing
between them, as the below image illustrates:

Heading 1	Heading 2
Data 1	Data 2

This doesn't look very nice (although it might be the look you want, who knows?) With border-collapse: collapse; set, the borders collapse down into one, which looks much better:

Heading 1	Heading 2
Data 1	Data 2

- We've put a border around the whole table, which is needed because we'll be putting some borders round the table header and footer later on — it looks really odd and disjointed when you don't have a border round the whole outside of the table and end up with gaps.
- We've set some padding on the and elements this gives the data items some space to breathe, making the table look a lot more legible.

At this point, our table already looks a lot better:

A summary of the UK's most famous punk bands				
Band	Year formed	No. of Albums	Most famous song	
Buzzcocks	1976	9	Ever fallen in love (with someone you shouldn't've)	
The Clash	1976	6	London Calling	
The Damned	1976	10	Smash it up	
Sex Pistols	1975	1	Anarchy in the UK	
Sham 69	1976	13	If the kids are united	
Siouxsie and the Banshees	1976	11	Hong Kong Garden	
Stiff Little Fingers	1977	10	Suspect Device	
The Stranglers	1974	17	No More Heroes	
Total albums	•	77		

Now we'll get our type sorted out a bit.

First of all, we've gone and found a font on Google Fonts that is suitable for a table about punk bands. You can go there and find a different one if you like; you'll just have to replace our provided <link> element and custom font-family declaration with the ones Google Fonts gives you.

First, add the following <link> element into your HTML head, just above your existing <link> element:

```
1 | link href='https://fonts.googleapis.com/css?family=Rock+Salt' rel='styleshee
```

Now add the following CSS into your style.css file, below the previous addition:

```
/* typography */
 1
 2
     html {
 3
       font-family: 'helvetica neue', helvetica, arial, sans-serif;
4
     }
 5
 6
     thead th, tfoot th {
 7
       font-family: 'Rock Salt', cursive;
8
     }
 9
10
     th {
11
       letter-spacing: 2px;
12
     }
13
14
     td {
15
       letter-spacing: 1px;
16
17
     }
18
    tbody td {
19
       text-align: center;
20
     }
21
```

```
22
23
     tfoot th {
       text-align: right;
24
25
```

There is nothing really specific to tables here; we are generally tweaking the font styling to make things easier to read:

- We have set a global sans-serif font stack; this is purely a stylistic choice. We've also set our custom font on the headings inside the <thead> and <tfoot> elements, for a nice grungy, punky look.
- We've set some letter-spacing on the headings and cells, as we feel it aids readability. Again, mostly a stylistic choice.
- We've center-aligned the text in the table cells inside the so that they line up with the headings. By default, cells are given a text-align value of left, and headings are given a value of center, but generally it looks better to have the alignments set the same for both. The default bold weight on the heading fonts is enough to differentiate their look.
- We've right-aligned the heading inside the <tfoot> so that it is visually associated better with its data point.

The result looks a bit neater:

A summary of the UK's most famous punk bands					
BAND	YEAR FORMED	No. OF ALBUMS	MOST FAMOUS SONE		
Buzzcocks	1976	9	Ever fallen in love (with someone you shouldn't've)		
The Clash	1976	1976 6 Londo			
The Damned	1976	1976 10 S			
Sex Pistols	1975	1	Anarchy in the UK		
Sham 69	1976	13	If the kids are united		
Siouxsie and the Banshees	1976	11	Hong Kong Garden		
Stiff Little Fingers	1977	10	Suspect Device		
The Stranglers	1974	17 No More Heroes			
	TOTAL ALBUMS	77			

Now onto graphics and colors! Because the table is full of punk and attitude, we need to give it some bright imposing styling to suit. Don't worry, you don't have to make your tables this loud — you can opt for something more subtle and tasteful.

Start by adding the following CSS to your style.css file, again at the bottom:

```
thead, tfoot {
1
      background: url(leopardskin.jpg);
2
      color: white;
3
      text-shadow: 1px 1px 1px black;
5
    }
6
    thead th, tfoot th, tfoot td {
      background: linear-gradient(to bottom, rgba(0,0,0,0.1), rgba(0,0,0,0.5));
      border: 3px solid purple;
9
    }
10
```

Again, there's nothing specific to tables here, but it is worthwhile to note a few things.

We've added a background-image to the <thead> and <tfoot>, and changed the color of all the text inside the header and footer to white (and given it a text-shadow) so it is readable. You should always make sure your text contrasts well with your background, so it is readable.

We've also added a linear gradient to the and elements inside the header and footer for a nice bit of texture, as well as giving those elements a bright purple border. It is useful to have multiple nested elements available so you can layer styles on top of one another. Yes, we could have put both the background image and the linear gradient on the <thead> and <tfoot> elements using multiple background images, but we decided to do it separately for the benefit of older browsers that don't support multiple background images or linear gradients.

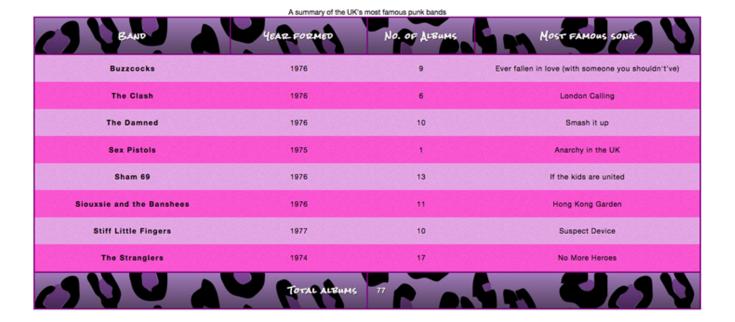
#### Zebra striping

We wanted to dedicate a separate section to showing you how to implement **zebra stripes** — alternating rows of color that make the different data rows in your table easier to parse and read. Add the following CSS to the bottom of your style.css file:

```
tbody tr:nth-child(odd) {
 1
       background-color: #ff33cc;
 2
    }
 3
 4
    tbody tr:nth-child(even) {
 5
       background-color: #e495e4;
 6
     }
 7
 8
     tbody tr {
 9
       background-image: url(noise.png);
10
     }
11
12
     table {
13
       background-color: #ff33cc;
14
15
     }
```

- Earlier on you saw the :nth-child selector being used to select specific child elements. It can also be given a formula as a parameter, so it will select a sequence of elements. The formula 2n-1 would select all the odd numbered children (1, 3, 5, etc.) and the formula 2n would select all the even numbered children (2, 4, 6, etc.) We've used the odd and even keywords in our code, which do exactly the same things as the aforementioned formulae. In this case we are giving the odd and even rows different (lurid) colors.
- We've also added a repeating background tile to all the body rows, which is just a bit of noise (a semi-transparent .png with a bit of visual distortion on it) to provide some texture.
- Lastly, we've given the entire table a solid background color so that browsers that don't support the :nth-child selector still have a background for their body rows.

This color explosion results in the following look:



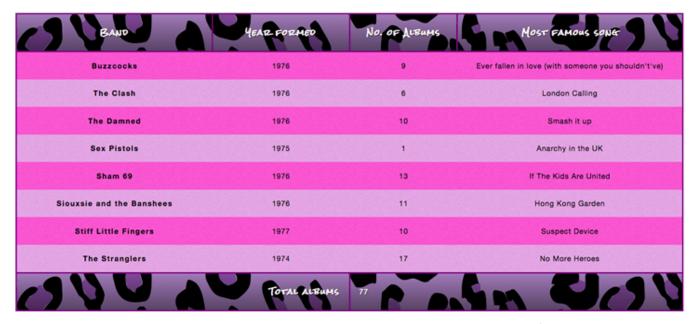
Now, this may be a bit over the top and not to your taste, but the point we are trying to make here is that tables don't have to be boring and academic.

#### Styling the caption §

There is one last thing to do with our table — style the caption. To do this, add the following to the bottom of your style.css file:

```
caption {
1
     font-family: 'Rock Salt', cursive;
2
      padding: 20px;
3
     font-style: italic;
4
      caption-side: bottom;
5
      color: #666;
6
     text-align: right;
7
     letter-spacing: 1px;
8
9
```

There is nothing remarkable here, except for the caption-side property, which has been given a value of bottom. This causes the caption to be positioned on the bottom of the table, which along with the other declarations gives us this final look (see it live at punk-bands-complete.html):



A SUMMARZY OF THE UK'S MOST FAMOUS PUNK BANDS

# Active learning: Style your own table 🔗

At this point, we'd like you to take our example table HTML (or use some of your own!) and style it to make something considerably better designed and less garish than our table.

# Table styling quick tips

Before moving on, we thought we'd provide you with a quick list of the most useful points illustrated above:

- Make your table markup as simple as possible, and keep things flexible, e.g. by using percentages, so the design is more responsive.
- Use table-layout: fixed to create a more predictable table layout that allows you to easily set column widths by setting width on their headings ().
- Use border-collapse: collapse to make table elements borders collapse into each other, producing a neater and easier to control look.
- Use <thead>, , and <tfoot> to break up your table into logical chunks and
   provide extra places to apply CSS to, so it is easier to layer styles on top of one another if

required.

- Use zebra striping to make alternative rows easier to read.
- Use text-align to line up your and text, to make things neater and easier to follow.

## Summary &

With the dizzy exciting heights of styling tables now behind us, we need something else to occupy our time. Never fear — the next chapter provides a look at some advanced box effects, some of which have only landed in browsers very recently (such as blend modes and filters), and some of which are a bit more established (such as box shadows.)

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