



**In this section the Developer will learn...**

- How to use CSS Counters with HTML lists



Counters couldn't be introduced until we had discussed pseudo elements

Counters allow the Developer to add numeric values to elements based on their position in the HTML, for example if the Developer has several `<p>` tags they can be numbered and displayed

This means that when elements are moved around the output will be automatically renumbered

There are two main settings for counters ...

*counter-reset*

*counter-increment*



In this first example, the Developer has used the counter-increment within for the <p> tag, counters are given unique identifiers so that more than one can be used in the webpage (the browser will do the counting for you)

```
.box p {counter-increment: counter1;}
```

```
.box p:before {content: counter(counter1);}
```

```
1Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday
```

```
2Suddenly, I'm not half the man I used to be  
There's a shadow hanging over me.  
Oh, yesterday came suddenly
```

```
3Why she had to go I don't know she wouldn't say  
I said something wrong, now I long for yesterday
```



Note in the previous example the number had no space before the rest of the text, to make this look neater concatenate some space ...

```
.box p:before {content: counter(counter1) ". "};
```

1. Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday
2. Suddenly, I'm not half the man I used to be  
There's a shadow hanging over me.  
Oh, yesterday came suddenly
3. Why she had to go I don't know she wouldn't say  
I said something wrong, now I long for yesterday



This example concatenates before and after the counter ...

```
.box p:before {content: "Verse: " counter(counter1) " "};
```

Verse: 1 Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday

Verse: 2 Suddenly, I'm not half the man I used to be  
There's a shadow hanging over me.  
Oh, yesterday came suddenly



## Counters – Different counter output

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Counters can use the same settings as lists, if the Developer specifies the syntax like this

```
.box p:before {content: counter(counter1, circle) " "};
```

◦ Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday

## Counters – Different counter output



The options have already been discussed, here are the popular ones again ...

*square* –

```
■ Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday
```

*decimal* –

```
1 Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday
```

*disc* –

```
• Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday
```

*decimal-leading-zero* -

```
01 Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday
```

## Counters – Different counter output

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*lower-alpha* –

a Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday

*lower-latin* –

i Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday

*upper-alpha* –

A Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday

*upper-latin* -

I Yesterday all my troubles seemed so far away  
now it looks as though they are here to stay  
oh I believe in Yesterday





*counter-reset* allows the Developer to set the counter back to zero

```
.new {counter-reset:counter1;}
```

If a different value is to be used, use this syntax ...

```
counter-reset: counter1 12;
```

It will even accept negative numbers

```
counter-reset: counter1 -5;
```

## Counters – counter-reset

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*counter-reset* can reset multiple counters ...

*counter-reset: counter1 counter2 counter99;*



This final example shows the use of a couple of counters and *counter-reset* ...

```
<div class="box">  
    <p></p>  
    <div>Help!</div>  
    <div>The Night Before</div>  
    <div>You've Got to Hide Your Love Away</div>  
    <div>I Need You</div>  
    <div>Another Girl</div>
```



```
.box p {counter-increment: counter1; counter-reset: counter2;}
```

```
.box div {counter-increment: counter2; padding-left: 10px}
```

```
.box p:before {content: "Side: "  
                counter(counter1) " "};}
```

```
.box div:before {content: "Track: "  
                    counter(counter2) " "};}
```

Side: 1

Track: 1 Help!

Track: 2 The Night Before

Track: 3 You've Got to Hide Your Love Away

Track: 4 I Need You

Track: 5 Another Girl

Track: 6 You're Going to Lose That Girl

Track: 7 Ticket to Ride

Side: 2

Track: 1 Act Naturally

Track: 2 It's Only Love

Track: 3 You Like Me Too Much

Track: 4 Tell Me What You See

Track: 5 I've Just Seen a Face

Track: 6 Yesterday

Track: 7 Dizzy Miss Lizzy