

Create an adaptable website layout with CSS3 media queries (<http://www.catswhocode.com/blog/create-an-adaptable-website-layout-with-css3-media-queries>)

Published on May 9th, 2011 by Jean-Baptiste Jung. [5 Comments](#)
(<http://www.catswhocode.com/blog/create-an-adaptable-website-layout-with-css3-media-queries#comments>) -

With the rise of both very large screens and mobile devices, web developers have to be able to create websites that display correctly and look good whatever the device is. Sure, you can use good old techniques like fluid layouts, but I've got something better to show you today. This tutorial will teach you how you can create an adaptable website layout using CSS3.

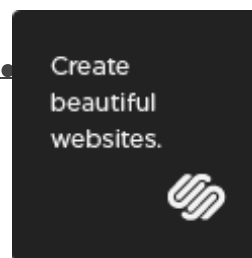
Getting started

- [View demo](#)
(<http://www.catswhocode.com/demos/css3-media-queries/>) (Horizontally resize your browser to view it in action)
- [Download files](#)
(<http://www.catswhocode.com/blog/wp-content/uploads/2011/05/css3-media-queries.zip>)

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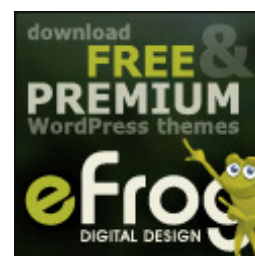
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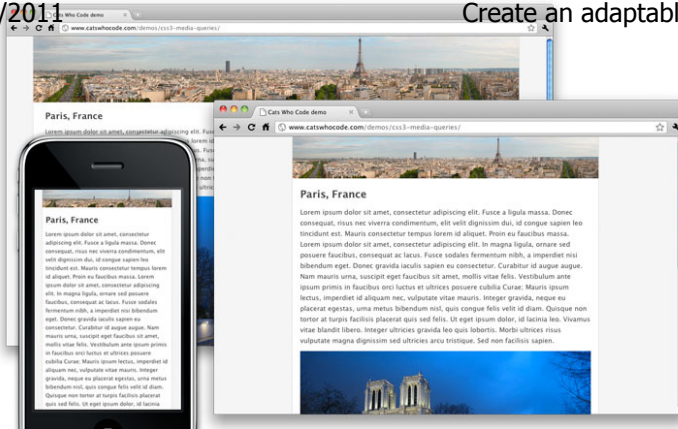
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Creating the default layout

The first step of this tutorial is obviously to create a HTML page. I chose to make a simple HTML5 page with only a header image, a title, and some text. Copy the following code and paste it into a file named `index.html`.

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <title>Cats Who Code demo</title>
  <link href="style.css" type="text/css"
    rel="stylesheet" media="screen">
  <meta name="viewport" content="width=device-width; initial-scale=1.0; maximum-scale=1.0;">
</head>

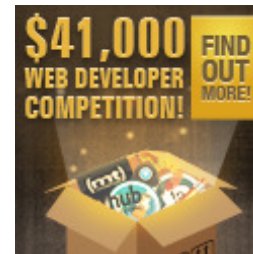
<body>
  <div id="container">
    <header class="ma-class-en-css">
      <h1 id="logo"><a href="#">Cats Who Code</a></h1>
    </header>

    <div id="content">
      <h2>Paris, France</h2>
      <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce a ligula massa. Donec consequat, risus nec viverra condimentum, elit velit dignissim dui, id congue sapien leo tincidunt est. Mauris consectetur tempus lorem id aliquet. Proin eu faucibus massa. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In magna ligula, ornare sed posuere faucibus, consequat ac lacus. Fusce sodales fermentum nibh, a imperdiet nisi bibendum eget. Donec gravida iaculis sapien eu consectetur. Curabitur id augue augue. Nam mauris urna, suscipit eget faucibus ut amet, mollis vitae felis. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae. Mauris ipsum lectus, imperdiet id aliquam nec, vulputate vitae mauris. Integer gravida, neque eu placerat eros, quis metus bibendum nisi, quis congue felis veli id diam. Quisque non tortor at turpis facilisis placerat quis sed felis. Ut eget ipsum dolor, id lacina leo. Vivamus vitae blandit libero. Integer ultricies gravida leo quis lobortis. Morbi ultrices risus vulputate magna dignissim sed ultrices orci tristique. Sed non faucibus sapien.

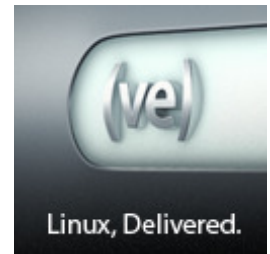
```

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condimentum. Morbi varius porta sapien nec iaculis.
In gravida velit at nulla imperdiet varius.</p>
</div><!-- #content -->
```

```
<footer>A demo by <a href="http://www.catswhocode.com">CatsWhoCode</a></footer>
</div><!-- #container -->
</body>
</html>
```

Once done, we have to add a stylesheet to our `index.html` page. The following code is the basic styling for the page. Paste it into a file named `style.css`.

```

*{
    /* On a production site, use a real r
    eset instead of this! */
    margin:0;
    padding:0;
}

body{
    background:#f5f5f5;
    font-family:"Lucida Grande", Arial;
    font-size:13px;
    line-height:21px;
    color:#444;
}

p{
    margin:15px 0;
}

h2{
    margin-top:20px;
}

#container{
    background:#fff;
    border-left:1px #ddd solid;
    border-right:1px #ddd solid;
    border-bottom:1px #ddd solid;
    width:600px;
    margin:0 auto;
}

header h1#logo a{
    text-indent:-9999px;
    display:block;
    width:600px;
    height:82px;
    background:url(image-med.jpg) no-repe
at 0 0;
}

#content{
    width:95%;
    margin:0 auto;
}

footer{
    text-align:center;
    width:100%;
    display:block;
    font-size:11px;
}

```

Right now, if you look to your `index.html` page through your web browser, you'll see something like the screenshot below. Nothing spectacular, right? Keep reading, we're going to



Using CSS3 media queries to make our layout fit in all screen resolutions

If you had a look to your `index.html` page with a screen resolution bigger than 800*600, you might find the layout is really small. So, what about allowing large screens to display a bigger version, while still using the small version for people with lower resolutions?

This is what CSS3 media queries can do for you. Open your `style.css` file and paste the code below at the end of the file:

```
@media screen and (min-width:1200px){
    #container{
        width:1100px;
    }

    header h1#logo a{
        width:1100px;
        height:150px;
        background:url(image.jpg) no-
repeat 0 0;
    }
}
```

Now, have a look at `index.html` again: The layout is indeed bigger. Horizontally resize the window size... The site switches back to the small layout. How great is that?

As you can see, there's nothing complicated at all in implementing this technique. `@media screen` tells the browser this applies only for screens, because we don't
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5/9/2011 to resize anything for print. Create an adaptable website layout wit...

`width:1200px)` specifies that the screen must have a 1200px minimum width. If these requirements are met, then the code within the parenthesis is taken into consideration by the browser, and redefines previous styles.

Now that we created a bigger version for bigger screens, what about a very small version for mobiles? Paste this code into `style.css` and you're done.

```
@media screen and (max-width:767px){
    #container{
        width:320px;
    }

    header h1#logo a{
        width:320px;
        height:44px;
        background:url(image-small.jp
g) no-repeat 0 0;
    }
}
```

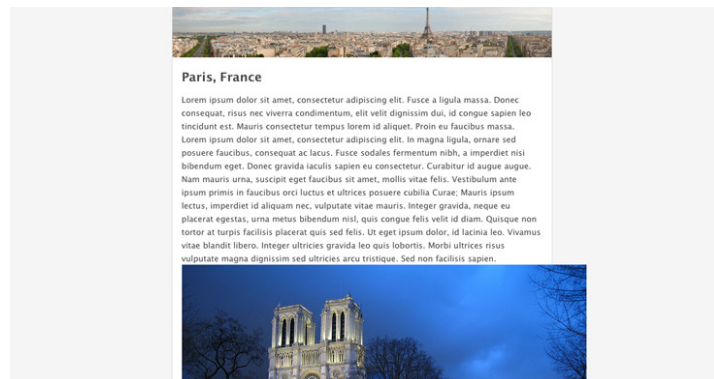
Dealing with images

Images always play an important part of a website. So, let's add an image to our website layout. Re-open `index.html` and insert the following code just before the first closing `</p>`

```

```

If you have a look to `index.html` with a big screen, no problem. But if you resize the window horizontally...ouch.



the website layout, we have to resize images as well. The `max-width` CSS property is here to help.

Insert the following on your `style.css` file:

```
img {
    max-width:570px;
    margin:10px 0;
}
```

A default image size is now defined. Now we can setup sizes for big screens as well as mobile devices:

```
@media screen and (min-width:1200px){
    img {
        max-width:1000px;
    }
}

@media screen and (max-width:767px){
    img {
        max-width:305px;
    }
}
```

Now, resize your browser: Images are resized with the layout!

Limitations

Guess what? Internet Explorer (excepted the newly released IE9) doesn't know anything about the CSS `@media` property. Which means that even on a big screen, IE users will see the default layout.

Hope you enjoyed this tutorial. Have a great day!

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James (<http://welcomebrand.co.uk>) said:

May 9, 2011 at 10:16 am

(<http://www.catswhocode.com/blog/create-an-adaptable-website-layout-with-css3-media-queries#comment-354845>)

Good primer on responsive layouts, maybe consider using max-width:100% on images though, it should offer a little more flexibility



<http://unstoppablerobotninja.com/entry/fluid-images/>

J.

Reply (</blog/create-an-adaptable-website-layout-with-css3-media-queries?replytocom=354845#respond>)



JP (<http://www.barreverte.fr>) said: May 9, 2011 at 11:54 am

(<http://www.catswhocode.com/blog/create-an-adaptable-website-layout-with-css3-media-queries#comment-354845>)

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Hi,

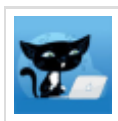
I wondered when I read that :

/* On a production site, use a real reset instead of this! */

how do you do a real reset ?

thanks

[Reply \(/blog/create-an-adaptable-website-layout-with-css3-media-queries?replytocom=354911#respond\)](#)



Jean-Baptiste Jung

(<http://www.wprecipes.com>)

said: **May 9, 2011 at 12:02 pm**

(<http://www.catswhocode.com/blog/create-an-adaptable-website-layout-with-css3-media-queries#comment-354917>)

The “*” reset is not really good, I included it only because the file was an example. A great reset is this one: <http://html5doctor.com/html-5-reset-stylesheet/>

Cheers!

[Reply \(/blog/create-an-adaptable-website-layout-with-css3-media-queries?replytocom=354917#respond\)](#)



JP

(<http://www.barreverte.com>)

said: **May 9, 2011 at**

12:08 pm

(<http://www.catswhocode.com/blog/create-an-adaptable-website-layout-with-css3-media-queries#comment-354926>)

Ah ok ! merci...

(I found the original Eric Meyer css reset in my bookmarks, under 30cm of dust)

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[adaptable-website-layout-with-css3-media-queries?replytocom=354926#respond](#)



Jeff Friend

<http://www.forwardmediagroup.com>) said:

May 9, 2011 at 11:57 am

<http://www.catswhocode.com/blog/create-an-adaptable-website-layout-with-css3-media-queries#comment-354914>)

Excellent basic tutorial on adaptable website layouts! Thanks.

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