

# RESPONSIVE DESIGN

Introduction to Responsive Design



## ABOUT

Responsive Web design is the approach that suggests that design and development should respond to the user's behavior and environment based on screen size, platform and orientation.

The practice consists of a mix of flexible grids and layouts, images and an intelligent use of CSS media queries. As the user switches from their laptop to iPad, the website should automatically switch to accommodate for resolution, image size and scripting abilities.

# RESPONSIVE DESIGN

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You are now developing Web sites to work on many different types of devices, desktops and laptops with different monitor resolutions, tablets like iPads and a variety of mobile phones. This becomes challenging when trying to provide a consistent experience for all your users. Some have developed mobile apps in languages native to the device. These tend to work well on certain devices, but have to be maintained separately from the main website. There are times when this is appropriate, when apps need to use advanced GPS or accelerometer features. But, if you just want to recreate your website experience on a variety of screen sizes, using responsive design is often the best way to go.

# FLUID LAYOUT

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In our CSS, we will now be using percentages to size our main divs so that they will change with the screen size. You can allow a max-width to prevent your website from showing at a larger format.

## BEFORE

```
#header {  
width: 850px;  
}
```

## AFTER

```
#header {  
max-width: 850px;  
width: 90%;  
}
```

# MEDIA QUERIES

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Use media queries to provide additional, special styles at certain sizes. See the media queries section of the CSS. Depending on the items in your nav, you may need to do additional tweaking on these items.

# META TAG



# MEDIA QUERIES

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For iPhone viewing, you have to add this line of code to the <head>, so that it overrides the default to simply shrink the content to fit the iPhone screen. You will see this in the html <meta name="viewport" content="width=device-width, initial-scale=1.0">

**CHECK OUT AN EXAMPLE**

[www.saramshields.com/p2](http://www.saramshields.com/p2)