



# Clint Patterson

Webmaster  
Mecklenburg County Government

[Twitter.com/CBPSC](https://twitter.com/CBPSC)  
[LUQB@Hotmail.com](mailto:LUQB@Hotmail.com)  
[ClintPatterson.net](http://ClintPatterson.net)

# Responsive Design via CSS Media Queries

Pre-presentation “Things to note”

- I’m just a time filler before Ryan ;-)
- Credit to Amelia Marschall [@MimiAmelia](#)



**2011**  
**DOTNETNUKE™ WORLD**  
O R L A N D O

# Responsive Design

## What is responsive design / media queries?

**Responsive design** is the concept of altering the design of a web site based on the device viewing it. Responding with an appropriately formatted design

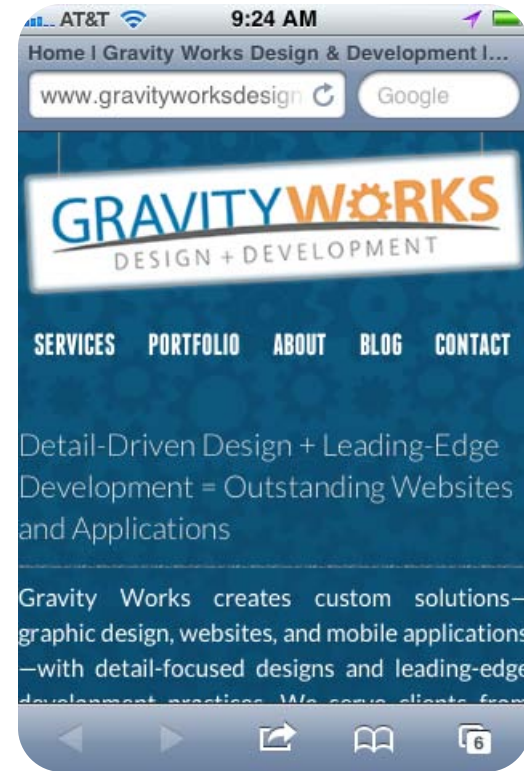
**Media queries** are a CSS3 concept that detects the “viewport” of a device and then allows us to apply different styles accordingly



# A quick example

[GravityWorksDesign.com](http://GravityWorksDesign.com)





Detail-Driven Design + Leading-Edge Development = Outstanding Websites and Applications

Gravity Works creates custom solutions—graphic design, websites, and mobile applications—with detail-focused designs and leading-edge development practices. We serve clients from



# Responsive Design

## Dedicated Mobile Site vs

## Responsive Design

### Pros

- Better performance
- More perfected UI

### Cons

- Higher development cost
- Have to maintain 2 web sites

### Pros

- Maintain only 1 web site
- Quick to implement

### Cons

- Weaker performance
- Older browsers don't support
- Layout Restrictions



# A Good Fit for DNN

Content Management kept in one place

Skinning approach makes implementation easy

**Skins must use DIVS instead of tables!**



# Target Browsers

## By Media Type

- Screen
- Print
- Handheld
- TV
- all

## By Media Feature

- Aspect-ratio
- Device-aspect-ratio
- Device-height
- Device-width
- Height
- Width
- Orientation
- Resolution





# More Samples

<http://MediaQueri.es>

# My 1<sup>st</sup> attempt

MediaQueries.html (local file)



# Media Queries in CSS

“And”, “not”, and “only” with media queries

`@media only screen and (min-width:0px) and (max-width : 479px)`

`@media only screen and (min-width:480px) and (max-width : 767px)`

`@media only screen and (min-width:768px) and (max-width : 1023px)`

`@media only screen and (min-width:1024px)`

**Embed all in Skin.css or  
import them into Skin.css to break them out per viewport width**



# The magic is in the .CSS

```
/******IPHONE_PORTRAIT*****  
@media only screen and (min-width : 0px) and (max-width : 479px){  
  .Wrapper{width:320px; margin: 0 auto;}  
    #Body  
    {  
      height:100%;  
      background: #666666; /* Old browsers */  
      background: -moz-radial-gradient(center, ellipse
```

```
/****** IPAD_PORTRAIT *****  
@media only screen and (min-width:768px) and (max-width : 1023px) {  
  .Wrapper{width:768px; margin: 0 auto;}  
  #Body  
  {  
    height:100%;  
    background: #666666; /* Old browsers */  
    background: -moz-radial-gradient(center, ellipse
```

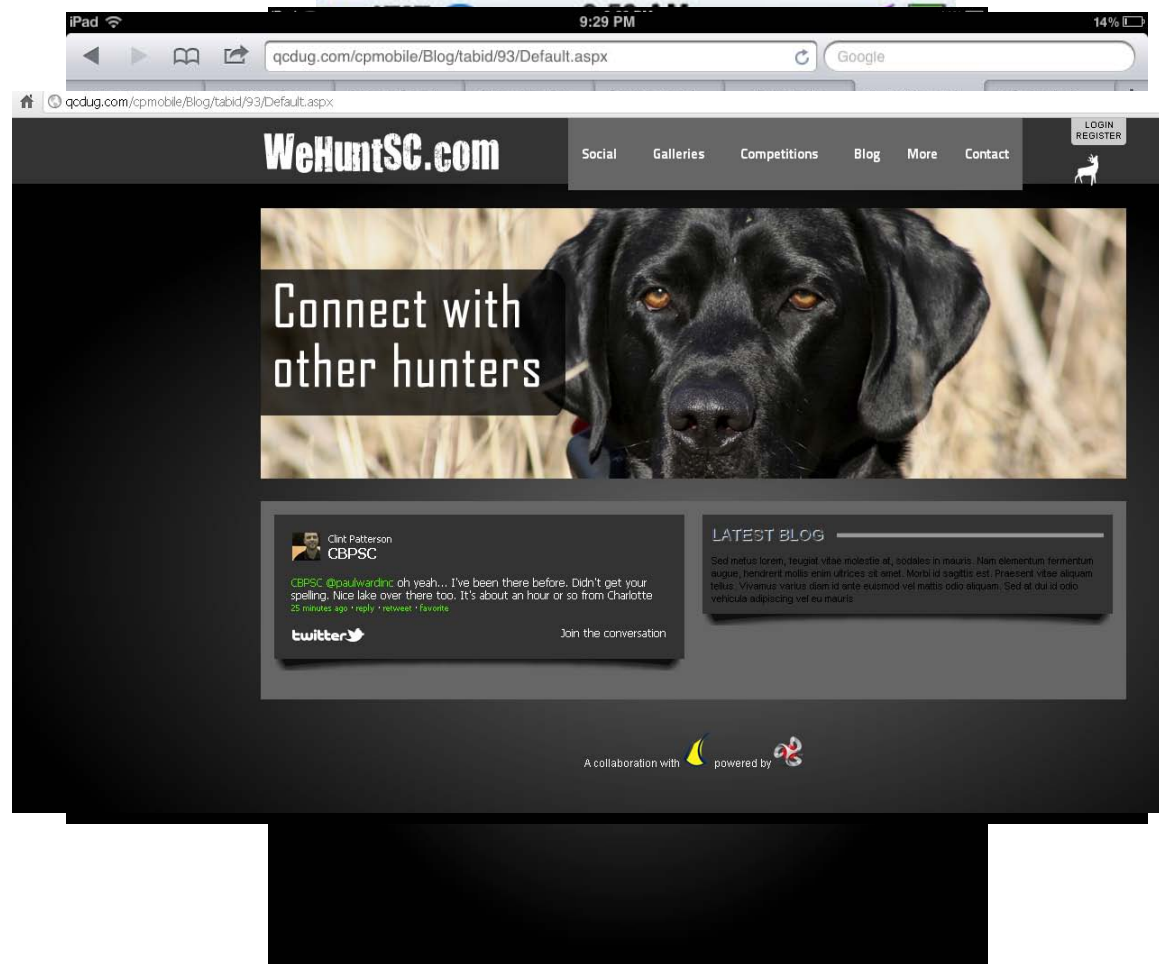
# “Display:none” is half the magic

- Hide unnecessary content for mobile
- Add mobile only Panes with `display:none` in the regular CSS

```
/*----- Iphone Portrait Header Region -----  
#TopHBar{background-color:#333333; width:100%; height:73px;  
#Logo{margin:12px 0px -8px 30px; float:left;}  
#Nav{float:left; width:100%;}  
#Login  
  {  
    display:none;  
    /*float:left;  
    margin:10px 0px 0 0px;  
    width:100%;
```



# My 2nd attempt



This page is live at [QCDUG.com/CPmobile](http://QCDUG.com/CPmobile) → Click on the “Blog” page

# Viewport in the .ASCX

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=2.0" />
```

Must have one line in the skin file to ensure the browser will scale correctly

```
<meta name="viewport"  
content="width=device-width, initial-  
scale=1.0, maximum-scale=2.0" />
```



**Let's look at the code**



# Responsive Sliding Images

<http://responsive-slides.viljamis.com>

# Responsive Design via CSS Media Queries

Post-presentation “Things to note”

If a country boy from SC can make media queries in DNN work, then anyone can!



**Questions?**

