

# INFORMATION ORGANIZATION LAB

# LAST TIME ON IOLAB



# BIG NEWS



**WebPlatform.org**

*“... a new community-driven site that aims to become a comprehensive and authoritative source for web developer documentation”*

- syntax & examples
- device & platform support
- current standardization & implementation



# THIS IS THE WEB



# TODAY

- Media Queries
- Responsive Web Design

# DEMOS

[http://courses.ischool.berkeley.edu/i290-iol/  
f12/resources/responsive/](http://courses.ischool.berkeley.edu/i290-iol/f12/resources/responsive/)



# MEDIA QUERIES

- Consist of a media type and 0 or more expressions that check for particular “media features”
- Most common media types: “screen” and “print”
- Presentation can be tailored to a specific range of output devices without changing the content itself.

# HTML4/CSS2

Inside `<head>` you can target media types:

```
<link rel="stylesheet" type="text/css"
media="screen" href="style.css">
```

```
<link rel="stylesheet" type="text/css"
media="print" href="print.css">
```



# HTML4/CSS2

OR Inside your stylesheet:

```
@media screen {  
    * {font-family: sans-serif; }  
}
```

```
@media print {  
    * {font-family: serif; }  
}
```

# HTML5/CSS3

Inside `<head>` you can target media types **AND** devices/displays/resolutions:

```
<link rel="stylesheet" media="screen and  
(max-width: 600px)" href="small.css">
```

```
<link rel="stylesheet" media="screen and  
(min-width: 900px)" href="large.css">
```

```
<link rel="stylesheet" media="screen and  
(min-width: 600px) and (max-width: 900px)"  
href="medium.css">
```

More Info: <http://webdesignerwall.com/tutorials/css3-media-queries>



# HTML5/CSS3

OR Inside your stylesheet:

```
@media screen and (max-width: 600px) {  
    .class {background: #ccc; }  
}
```

```
@media screen and (min-width: 900px) {  
    .class {background: #666; }  
}
```

```
@media screen and (min-width: 600px) and (max-  
width: 900px){  
    .class {background: #333; }  
}
```

More Info: <http://webdesignerwall.com/tutorials/css3-media-queries>



# MOBILE DEVICES

## Examples

```
<link rel="stylesheet" media="screen and  
(max-device-width: 480px)" href="iPhone.css">
```

```
@media screen and (max-device-width: 480px) {  
  .class {background: #000; }  
}
```

```
<link rel="stylesheet" media="all and  
(orientation: portrait)" href="portrait.css">
```

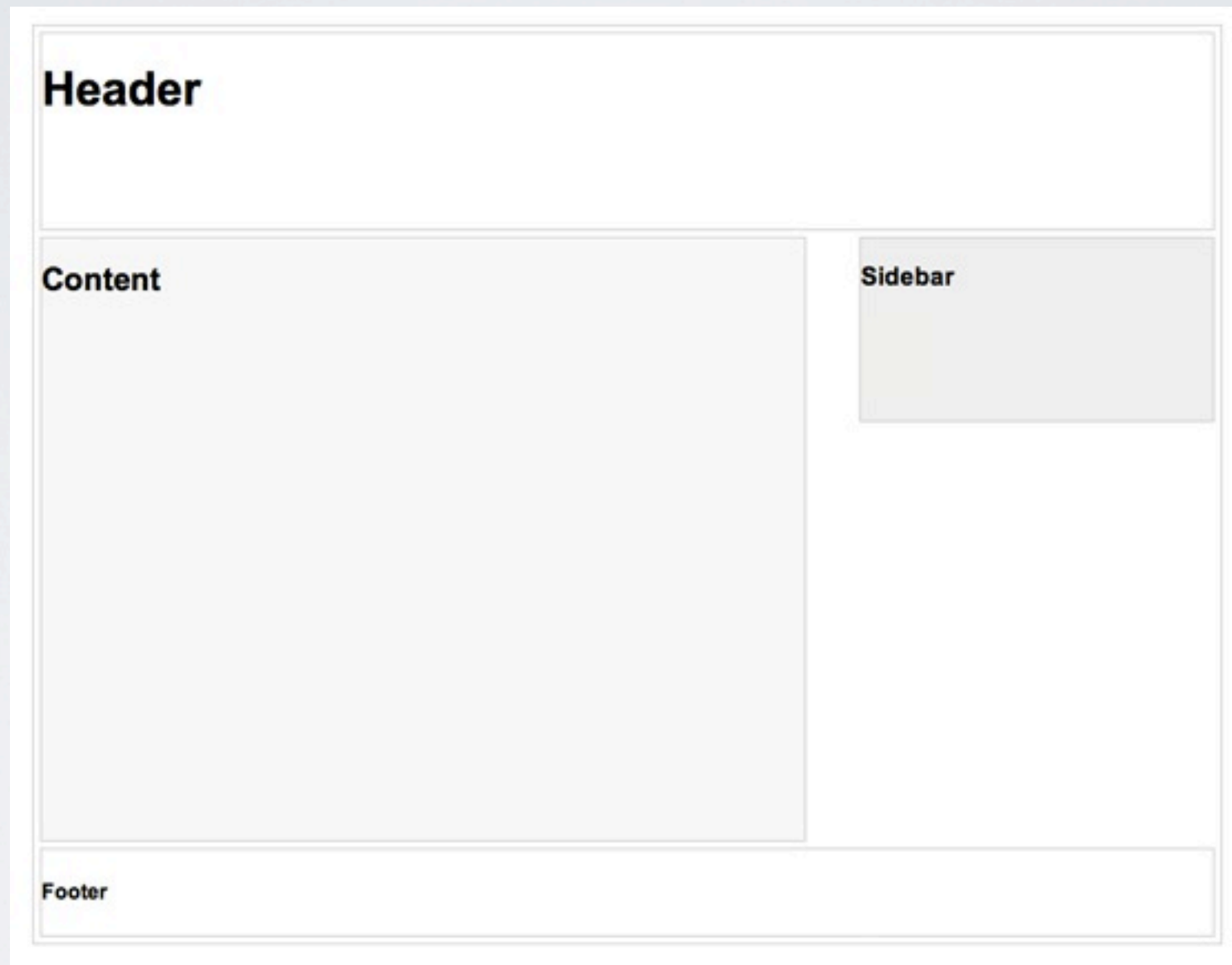
```
<link rel="stylesheet" media="all and  
(orientation: landscape)" href="landscape.css">
```

More Info: <http://webdesignerwall.com/tutorials/css3-media-queries>

# DEMOS

[http://courses.ischool.berkeley.edu/i290-iol/  
f12/resources/responsive/](http://courses.ischool.berkeley.edu/i290-iol/f12/resources/responsive/)

# RESPONSIVE WEB DESIGN



Source: <http://webdesignerwall.com/tutorials/responsive-design-in-3-steps>



# RESPONSIVE WEB DESIGN

```
/* for 980px or less */  
@media screen and (max-width: 980px) {  
  
    #pagewrap {  
        width: 94%;  
    }  
    #content {  
        width: 65%;  
    }  
    #sidebar {  
        width: 30%;  
    }  
  
}
```


These rules will be in effect if  
the viewport width is 980px or less

Source: <http://webdesignerwall.com/tutorials/responsive-design-in-3-steps>

# RESPONSIVE WEB DESIGN

```
/* for 700px or less */  
@media screen and (max-width: 700px) {  
  
    #content {  
        width: auto;  
        float: none;  
    }  
    #sidebar {  
        width: auto;  
        float: none;  
    }  
  
}
```

Reset container to auto width



Source: <http://webdesignerwall.com/tutorials/responsive-design-in-3-steps>

# RESPONSIVE WEB DESIGN

```
/* for 480px or less */  
@media screen and (max-width: 480px) {  
  
    #header {  
        height: auto;  
    }  
    h1 {  
        font-size: 24px;  
    }  
    #sidebar {  
        display: none;  
    }  
  
}
```

Source: <http://webdesignerwall.com/tutorials/responsive-design-in-3-steps>



# RESPONSIVE WEB DESIGN

## Notes

Initial Scale Meta Tag (for mobile devices):

```
<meta name="viewport" content="width=device-  
width; initial-scale=1.0">
```

Flexible Images

```
img {  
    max-width: 100%;  
    height: auto;  
}
```

# RESPONSIVE WEB DESIGN

## Resources

- Test your site: <http://responsinator.com>
- Examples: <http://mediaqueri.es>
- More advanced tutorial: <http://webdesignerwall.com/tutorials/responsive-design-with-css3-media-queries>
- This Is Responsive: <http://bradfrost.github.com/this-is-responsive/>

# LAB

Media Queries/Responsive Design

**Add at least 3 Media Queries  
to your Assignment I Website**



# FOR NEXT TIME

Due Wed: A3 - Make your A1 simple website responsive

Data Visualization

You can find links to help with all of these on the course website at  
<http://courses.ischool.berkeley.edu/290ta-iol/f12>