# Media Types & Media Features Same HTML, Different CSS

R. Scott Granneman & Jans Carton

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# Notes & URLs for this presentation can be found...

- » underneath the link to this slide show on granneman.com
- » at files.granneman.com/presentations/webdev/CSS-Media-Specific-Styles.txt

# Overview

```
@media (min-width: 768px) {
  .container {
   display: flex;
 aside {
   font-size: .9rem;
```

A sample @media at-rule with a media query

A media query allows you to change how content is presented in different media without having to change the content itself

A media query consists of...

- » a media type (a device; e.g., print or screen)
- » zero or more media features (a test for a single, specific feature of the device or browser; e.g., minwidth or orientation)

A media query is either true (apply it!) or false (ignore it!)

Media queries are applied first, & then the rendering engine applies the CSS cascade Important!

Therefore, you want to put the media queries *after* the main rule sets

Why should the media-specific declarations come after the general declarations?

Using the cascade...

- 1. Importance is tied (it's all by an author)
- 2. *Specificity* is tied (as long as the media-specific declaration is the same as the general declaration & remember, <code>@media</code> itself doesn't change specificity)
- 3. Order therefore means that the media-specific declaration wins

# 2 ways to specify media queries

- » Link to multiple style sheets using 1ink>
- » Within a stylesheet

Method 1: Link to multiple style sheets

```
<head>
    link rel="stylesheet" href="main.css">
    link rel="stylesheet" href="print.css"
media="print">
    </head>
```

```
<head>
    link rel="stylesheet" media="screen"
href="screen.css">

    link rel="stylesheet" media="(max-width:
800px)" href="small-screen.css">
    </head>
```

You probably do *not* want to link to multiple style sheets

Extra server calls

Method 2: Put the media-specific rule sets at the end of your main stylesheet

Do this: create a single style sheet & link to it in <head>

Put your styles for everything at the top, with specific media styles at the end

```
[styles for all media]
@media print {
  [styles for print]
}
```

```
html {
  font-size: 16px; background-color: black;
aside {
 width: 12rem;
@media print {
  html {
    font-size: 12pt; background-color: white;
  aside {
   display: none;
```

				iOS		
@media	9	1	1.3	3.1	1	1
Media Features	9	3.5	4	3.2	21	2.1

# Media Types

# You've been using this code

```
HTML 4.01
k rel="stylesheet" type="text/css"
href="main.css">
```

```
HTML5
k rel="stylesheet" href="main.css">
```

## Actually,

```
<link rel="stylesheet" href="main.css">
```

### is the same as

```
k rel="stylesheet" href="main.css"
media="all">
```

# Media Queries Level 4\* defines 4 media types

- » print: printers & Print Preview
- » speech: screen readers for visually disabled users, not browsers (was aural)
- » screen: "all devices that aren't matched by print or speech"
- » all: all media type devices (default)

<sup>\*</sup> Editor's Draft as of July 1, 2018

# Deprecated media types:

- » braille: Braille tactile feedback devices
- » embossed: paged Braille printers
- » handheld: small or handheld devices
- » projection: projected presentations
- » tty: fixed-pitch character grid (teletypes & terminals)
- » tv: television-type devices

"It is expected that all of the media types will also be deprecated in time, as appropriate media features are defined which capture their important differences."

—Media Queries Level 4, Editor's Draft, 1 July 2018

# Media Styles in Action

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- 3.1 Accessibility
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- 3.2 Stability

#### **4 Conclusions**

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But in this period of tremendous growth, the Web needs guidance to realize its full potential. Web standards are this guidance. These standards help ensure that everyone has access to the information we are providing, and also make web development faster and more enjoyable.

Standards compliance makes it easier for people with special needs to use the Web. Blind people may have their computer read web pages to them. People with poor eyesight may have pages rearranged and magnified for

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#### Frequently Asked Questions (FAQ)

#### 2 What are the standards?

2.1 W3C Standards

is the W3C #content-branding does it do?

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2 1 2 To poonlo

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#### 1 Introduction



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#content-branding is the W3C does it do?

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3.1.1 To software/machines

3 1 2 To poonlo

```
h1
  float: left;
  width: 40%;
 margin-left: 20px;
  padding-left: 75px;
  background: #191919
    url(/files/theme/h1.png)
    no-repeat 0 0;
  font-size: 200%;
```

#content-branding {
 border-bottom: 1px solid #fff
 padding: 1.5em 0;
 background-color: #000;

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2.2.2 What does it do?
```

```
h1
  font-family: Helvetica, Arial,
    sans-serif;
  font-weight: bold;
  font-size: 180%;
#content-branding {
  display: none;
```

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2.2.3.1 ECMAScript

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```
/* screen */
                          /* print */
h1 {
                          h1 {
  float: left;
                            font-family:
  width: 40%;
                              Helvetica, Arial,
  margin-left: 20px;
                              sans-serif;
  padding-left: 75px;
                            font-weight: bold;
  background: #191919
                            font-size: 180%;
    url(/files/theme/
    h1.png) no-repeat
    0 0;
  font-size: 200%;
```

```
/* screen */
                          /* print */
#content-branding {
                         #content-branding {
  border-bottom: 1px
                           display: none;
    solid #fff;
  padding: 1.5em 0;
  background-color:
    #000;
```

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To test print styles, use Print Preview instead of actually printing

# Common Print Styles

The following styles are *common* — a lot of print style sheets use these — but are not required

They are here to give you ideas about what you can use

```
html {
  font-size: 12pt;
  background-color: white;
  color: black;
}
```

```
a[href] {
  color: black;
  text-decoration: underline;
}
```

Make all links black & underlined

```
a[href]::after {
  color: black;
  text-decoration: underline;
  content: " (" attr(href) ") ";
When printed, <a href="http://
www.hplovecraft.com/writings/">Writings</a>
looks like this:
Writings (http://www.hplovecraft.com/
writings/)
```

```
a[href^="#"]::after,
a[href^="javascript:"]::after {
  content: "";
}
```

Don't print links that are fragment identifiers or use the javascript: pseudo protocol

```
When printed, <a href="#toc">Table of Contents </a> looks like this:
```

Table of Contents

```
h1, h2, h3 {
  color: black;
  padding-bottom: 1px;
  border-bottom: 1px solid black;
  page-break-after: avoid;
  break-after: avoid;
}
```

When printing, put a nice border under headings, & do not allow pages to break immediately after them

```
h2,
h3,
p {
    orphans: 3;
    widows: 3;
}
```

Avoid widows & orphans (see Print CSS next for more info)!

```
pre {
  white-space: pre-wrap !important;
  page-break-inside: avoid;
  break-inside: avoid;
}
```

When printed, allow to wrap & avoid breaking across pages

```
img,
tr {
   page-break-inside: avoid;
   break-inside: avoid;
}
```

When printing, don't allow <img> or to break across pages

```
aside,
nav,
.adbanner {
   display: none;
}
```

Most of your print styles will probably be removing things

#### SIDE NOTE

Certain CSS properties can be used with printing, but are also available for layout, so look for the *Multi-Column Layout* section in the *CSS Layout* presentation for more info

```
» (page-)break-after
```

- » (page-)break-before
- » (page-)break-inside
- » widows
- » orphans

# Media Features

You limit the style sheet's scope based on media features, such as width, height, & color

Almost all media features can be prefixed with...

- » min-: equal to or greater than
- » max-: equal to or less than

```
@media (min-width: 769px) {
    .hamburger-nav {
        display: none;
    }
}
min-width is a media feature
```

(min-width: 769px) is an expression

If the media (in this case, the viewport) has a min-width of 769px, then the style rules are applied to it

```
@media (orientation: portrait) {
    .sidebar {
      float: none;
    }
}
```

orientation is a media feature

(orientation: portrait) is an expression

If the media (in this case, the viewport) has an orientation of portrait, then the style rules are applied to it

```
@media (min-width: 700px) and (orientation: landscape) {
min-width & orientation are media features
(min-width: 700px) & (orientation: landscape) are expressions
and is a logical operator (others are not & only)
(min-width: 700px) and (orientation: landscape) is a complex
media query
```

If the media has a min-width of 700px AND an orientation of landscape, then the style rules are applied to it

Media features are either *viewport-centric* (which we care about for responsive web design) or *device-centric* (for special cases)

min-width & max-width are essential to responsive design!

#### Viewport-centric

- » width: width of viewport
- » height: height of viewport
- » aspect-ratio: <ratio> of horizontal pixels to
  vertical pixels of viewport
- » orientation: landscape Or portrait

#### SIDE NOTE'

<ratio>

Represents *aspect ratios* (proportions) in media queries: a positive <integer>, followed by /, followed by a positive <integer>

\*.......................**\*** 

No units!

#### SIDE NOTE:

\*.......................**\*** 

Examples

4/3: traditional TV

16/9: widescreen TV

185/100: traditional movies

239/100: widescreen movies

#### SIDE NOTE:

				iOS		
<ratio></ratio>	9	3.5	5	4.2	4	Y

\*.................\*

#### Device-centric: display quality

- » resolution: pixel density of the output device
   (infinite or <resolution>)
- » scan: scanning process of television (interlace or progressive)
- » grid: grid device or a bitmap device (o or 1)

#### SIDE NOTE'

#### <resolution>

Represents the *resolution* of a device: its density of pixels, expressed as a <number> immediately followed by a unit of resolution

#### Units

- » dpi: dots per inch
- » dpcm: dots per centimeter
- » dppx: dots per px unit; 1dppx is equivalent to 96dpi

### DANGER

#### SIDE NOTE:

<resolution></resolution>	9	12	8		29	Y
dppx		12	16		29	Y

\*.................\*

#### Device-centric: display quality

- » update: frequency that layout can be updated (none,
  slow, or fast)\*
- » overflow-block: treatment of potential overflow on block axis (none, paged, optional-paged, or scroll)\*
- » overflow-inline: treatment of potential overflow on inline axis (none, paged, optional-paged, or scroll)\*

<sup>\*</sup> New additions from Media Queries Level 4

#### Device-centric: color media

- » color: bit depth of a standard display (<integer>)
- » color-index: number of colors in an indexed color
  display (<integer>)
- » monochrome: bit depth of monochrome display
   (<integer>)
- » color-gamut: range of available colors (srgb, p3, or rec2020)\*

<sup>\*</sup> New additions from Media Queries Level 4

#### Device-centric: interaction

- » pointer: primary pointing device? (none, coarse, or fine)\*
- » any-pointer: any pointing device available? (none,
  coarse, or fine)\*
- » hover: can primary pointing device hover over elements? (none or hover)\*
- » any-hover: can any available pointing device hover over elements? (none or hover)\*

<sup>\*</sup> New additions from Media Queries Level 4

#### Device-centric



- » device-height: height of screen in pixels
- » device-aspect-ratio: <ratio> of horizontal pixels to vertical pixels of screen



## Mobile-Specific

overscroll-behavior

prefers-reduced-motion

#### Thank you!

scott@granneman.com www.granneman.com ChainsawOnATireSwing.com @scottgranneman

jans@websanity.com websanity.com

### Media Types & Media Features Same HTML, Different CSS

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2020-07-24 1.11: Moved all to the end of Media Types; minor wording fixes; fixed wording about relationship of @media & the cascade

2020-07-20 1.10: Updated icons in compatibility tables; added sample <code>@media</code> query at beginning; moved <code>@media</code> compatibility table to end of *Overview*; added note in *Common Print Styles* about print-specific properties that were moved to *CSS Layout*; added note re: importance of <code>min-width</code> & <code>max-width</code> to responsive design

2020-07-17 1.9: Moved print styling from *Print CSS* to *CSS Typography*; minor fizes

2018-11-20 1.8: Changed body to html in Common Print Styles; fixed all compatibility tables; added illustrations of widows & orphans; added lots more examples to Common Print Styles; re-ordered & rewrote how to apply media queries; added note recommon print styles

2018-10-17 1.7: Updated theme to Granneman 1.5;

2018-08-21 1.6: Added that some device-centric media queries are deprecated; added Deprecated label to appropriate media types; updated theme to Granneman 1.4; minor formatting fixes; added Important to slide on media queries before cascade; speech media type doesn't support browsers; all media types will be deprecated; updated widows & orphans compatibility chart; added & re-ordered media features

2017-06-13 1.5: Minor wording changes

2015-01-16 1.4: Updated compatibility chart in Media Features

2015-01-11 1.3: Renamed Media Queries to Media Features; moved much of Overview to Media Types; added new content to Overview; made it clearer which method of specifying media queries is best; minor fixes

2014-12-01 1.2: Improved recommendation at end of Overview

2014-08-01 1.1.2: Added more details on media features; corrected list of media types; more details on :right & :left

2014-05-15 1.1.1: Fixed minor errors

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