Making the Library Catalog Mobile-Friendly

in 5 Easy Steps
<table>
<thead>
<tr>
<th>Title</th>
<th>Location</th>
<th>Call Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>In the bear's forest</td>
<td>Children's Literature – Level G</td>
<td>j599.7 P566i</td>
<td>AVAILABLE</td>
</tr>
</tbody>
</table>
In the bear's forest
Pettersson, Bertil, 1932-
Stockholm ; New York : Raben & Sjogren, c1991

The bears of Yellowstone
Schullery, Paul

Big Bear's treasury : a children's anthology
Cambridge, Mass. : Candlewick Press, 1992-

When the teddy bears came
Waddell, Martin

The boy who lived with the bears : and other Iroquois stories
Bruchac, Joseph, 1942-

The earth under Sky Bear's feet : native American poems of the land
Bruchac, Joseph, 1942-
New York : Philomel Books, 1995
5 Steps to Mobile-Friendly

1. Use CSS3 media queries
2. Create mobile style rules
3. Implement `<meta>` tag
4. Hide navigation bar
5. Create bookmark icon
Step 1

CSS3 Media Query
Dynamically load stylesheet based on specified parameters
Different from CSS2 Media Types
Media Queries detect:

• Size of Browser Window
• Size of Device
• Orientation of Device
Media Queries can be used:

Internally in HTML file

Externally in CSS file
Internal Media Query

in HTML
Using Browser Window Size
<link rel="stylesheet" media="only screen and (max-width: 480px)" href="/screens/smallscreen.css" type="text/css"/>
<link rel="stylesheet" media="only screen and (max-width: 480px)" href="/screens/smallscreen.css" type="text/css"/>
Using Device Screen Size
<link rel="stylesheet" media="only screen and (max-device-width: 480px)" href="/screens/smallscreen.css" type="text/css"/>
<link rel="stylesheet" media="only screen and (max-device-width: 480px)" href="/screens/smallscreen.css" type="text/css"/>
External Media Query in CSS
body{
    background: blue;
}

@media only screen and (max-width: 480px),
only screen and (max-device-width: 480px){
    body{
        background: red;
    }
}

body{
    background:blue;
}

@media only screen and (max-width: 480px), only screen and (max-device-width:480px){
    body{
        background:red;
    }
}
Step 2

Alternate CSS Rules
Style Considerations:

- Navigation for Mobile
- Re-size Fonts
- Display/Hide Elements
- Single-Column Layout
Single-Column Layout in Log In Page
### Useful Information in Search Results

**Library Catalog**

- **Search the Catalog**
- **Advanced Search**
- **Journal Title Search**
- **Video Search**
- **Log in to Your Account**
- **New Materials**
- **Other Libraries**
- **FAQs**
- **Catalog Help**
- **Request a Purchase**
- **Course Reserves**
- **Interlibrary Loan**
- **Contact Us**

**Limit/Sort**

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<tbody>
<tr>
<td>Diversions - Level 1</td>
<td>PS3653.A7239 C58 1999</td>
<td>DUE 11-09-12</td>
</tr>
</tbody>
</table>

**A clash of kings**

- Martin, George R. R.

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**A storm of swords**

- Martin, George R. R.

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<tbody>
<tr>
<td>Diversions - Level 1</td>
<td>PS3653.A7239 C58 2000</td>
<td>DUE 10-25-12</td>
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**SIMMONS Library Mobile**

- **Basic Search**
- **Journal Search**
- **Login**
- **Limit/Sort**

- **Search**

- **KEYWORD**

- **game of thrones**

- **3 results found. Sorted by relevance | date | title**

- **A game of thrones**
  - Martin, George R. R.

- **A clash of kings**
  - Martin, George R. R.

- **A storm of swords**
  - Martin, George R. R.
Font Resizing in Detailed Records

SIMMONS Library Mobile
Basic Search | Journal Search | Login

Search Simmons

Search

Limit to available items

Limit/Sort

Place Hold

Back to Results

Author
Martin, George R. R.

Title
A game of thrones

Publisher

Location
Diversions - Level 1

Call Number
P5363.A7239 C36 1996

Status
DUE 11-08-12

Description
694 p. : ill., maps ; 25 cm.

Series
A song of ice and fire ; bk. 1

Notes
Includes two maps covering the territory of A game of thrones on endpapers.

Summary
"Long ago, in a time forgotten, a preternatural event threw the seasons out of balance. In a land where summers can last decades and winters a lifetime, trouble is brewing. The cold is returning, and in the frozen wastes to the north of Winterfell, sinister and supernatural forces are massing beyond the kingdom's protective Wall. At the center of the conflict lie the Starks of Winterfell, a family as harsh and uncompromising as the winter landscape they face, yet scarred by recent events. Now a new generation, with little experience of the outside world, rises to confront an enemy older and more powerful than they could ever imagine...

A tale of court intrigues in the land of Seven Kingdoms, a country "blessed by golden summers that go on for years, and cursed by cruel winters that can last a generation." Treachery, murder, incest.
<!--MOBILE HEADER & NAVIGATION-->
<div id="mobileHeader">
    <a href="http://www.simmons.edu/library/m/"><img src="http://www.simmons.edu/library/m/images/mobile-logo.png"/></a>
</div>

<div id="mobileNavigation">
    <a href="http://library.simmons.edu:2082/search" class="basic">Basic Search</a> | 
    <a href="http://library.simmons.edu:2082/search/j" class="journal">Journal Search</a> | 
    <a href="http://library.simmons.edu:2082/patroninfo">Login</a> | 
    <a href="http://library.simmons.edu/screens/help.html">FAQ</a>
</div>
#mobileHeader{
    display:none;
}

#mobileNavigation{
    display:none;
}
#header{
    display:none;
}

#mobileHeader {
    display:block;
}

#mobileNavigation{
    display:block;
}
Step 3

Viewport Meta Tag
Use the **viewport meta tag** to override mobile browser defaults.
With Viewport Meta Tag
Viewport Meta Tag

- Content Width
- Initial Scale
- Ability to Zoom
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1"/>
<meta name="viewport"
content="width=device-width,
initial-scale=1, maximum-scale=1"/>
<meta name="viewport"
content="width=device-width,
initial-scale=1, maximum-scale=1"/>
<meta name="viewport"
content="width=device-width,
initial-scale=1, maximum-scale=1"/>
Step 4

Hide Address Bar
Automatically hide the address bar in mobile browsers to maximize content view.
function hideURLbar() {
    window.scrollTo(0, 1);
}

if (navigator.userAgent.indexOf('iPhone') != -1 ||
    navigator.userAgent.indexOf('Android') != -1) {
    addEventListener("load", function() {
        setTimeout(hideURLbar, 0);
    }, false);
}
Step 5

Bookmark Icon
Create a bookmark icon for saving site to home screen.
iOS & Android Compatible

<link rel="apple-touch-icon-precomposed" href="http://www.yoursite/images/custom_icon.png"/>
iOS & Android Compatible

<link rel="apple-touch-icon-precomposed" href="http://www.yoursite/images/custom_icon.png"/>
iOS & Android Compatible

<link rel="apple-touch-icon-precomposed" href="http://www.yoursite/images/custom_icon.png"/>
Quick Review
Making Your Site Mobile-Friendly

• Use CSS3 media queries to dynamically load stylesheet rules
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• Use CSS3 media queries to dynamically load stylesheet rules

• Create mobile style rules to optimize site for view on mobile devices
Making Your Site Mobile-Friendly

• Use **CSS3 media queries** to dynamically load stylesheet rules

• Create **mobile style rules** to optimize site for view on mobile devices

• Implement `<meta>` tag to override default mobile browser settings
Making Your Site Mobile-Friendly

• Use CSS3 media queries to dynamically load stylesheet rules

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• Hide navigation bar to optimize content size
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• Create bookmark icon for brand consistency
Amy Deschenes
Beatley Library, Simmons College

Resources: bit.ly/V1xC0L