Designing Library Access for the Mobile Web

Research

Design

Test

Assess

Research

What are patrons *doing?*

What do patrons *want*?

http://www.simmons.edu - http://www.si Library

Home   **Standard Reporting**   Custom Reporting   **Admin**   Help ⬈

Devices

Jan 1, 2012 - Apr 20, 2012 ▾

Advanced Segments   Email BETA   Export ▾   Add to Dashboard

2.81% of total visits

Explorer   Map Overlay

Site Usage   Ecommerce

Visits ▾   VS.   Select a metric   Day | Week | Month

■ Visits

| | Feb 2012 | Mar 2012 | Apr 2012 |

Visits	Pages/Visit	Avg. Visit Duration	% New Visits	Bounce Rate
2,793	**1.41**	**00:01:10**	**17.62%**	**77.19%**
% of Total: 2.81% (99,391)	Site Avg: 1.83 (-22.90%)	Site Avg: 00:03:11 (-63.21%)	Site Avg: 25.76% (-31.61%)	Site Avg: 66.62% (15.87%)

Primary Dimension: **Mobile Device Info**   Mobile Device Branding   Service Provider   Mobile Input Selector   Operating System   Other ▾

Plot Rows   Secondary dimension ▾   Sort Type: Default ▾   advanced

	Mobile Device Info	Visits ↓	Pages/Visit	Avg. Visit Duration	% New Visits	Bounce Rate
☐ 1.	Apple iPad	1,290	1.57	00:01:52	14.11%	70.39%
☐ 2.	Apple iPhone	1,105	1.23	00:00:28	19.46%	85.25%
☐ 3.	Apple iPod Touch	83	1.25	00:00:34	13.25%	80.72%
☐ 4.	(not set)	51	1.82	00:01:58	52.94%	62.75%
☐ 5.	Samsung SC-02B GALAXY S	34	1.59	00:00:40	5.88%	73.53%
☐ 6.	HTC EVO 4G	33	1.21	00:00:35	12.12%	81.82%
☐ 7.	HTC ADR6300 Incredible	29	1.24	00:00:22	10.34%	82.76%
☐ 8.	SonyEricsson LT15i Xperia Arc	26	1.69	00:00:48	19.23%	73.08%

Audience
- Overview
- Demographics
- Behavior
- Technology
- Social
- Mobile
  - Overview
  - Devices
  - Visitors Flow

Advertising

Traffic Sources

Content

Conversions

Help
The Mobile Devices Report
Find Your Old Reports in the New Interface

Help center
Search help center   Go

Simmons Library Mobile User Survey

This survey will assist the library in making services & resources available in a mobile-friendly format.

What type of mobile device do you most frequently use to access the web?

○ iPhone/iPod Touch
○ Android Phone
○ E-Reader
○ Other: [   ]

Which of the following Library services would you find most helpful in a mobile interface?

○ Chat with a Librarian
○ Access Course Reserves
○ Access Interlibrary Loan
○ Access Library Catalog
○ Other: [   ]

Which of the following Library resources would you find most helpful in a mobile interface?

○ Electronic Journals/Databases
○ Online Reference Sources (such as Credo, encyclopedias, etc.)
○ Electronic Books
○ Other: [   ]

Design

How will your library *deliver* mobile content?

What *resources* does your library have?

Mobile Stylesheet

versus

Mobile Website

Stylesheet

Applies appropriate *style rules* for mobile users.

CSS3 Media Queries

CSS3 External Media Query
(in HTML <head>)

```
<link rel="stylesheet" type="text/css"
media="only screen and (max-width: 500px)"
href="http://www.mywebsite.com/css/
mobile.css" />


<link rel="stylesheet" type="text/css"
media="only screen and (max-device-width:
500px)"
href="http://www.mywebsite.com/css/
mobile.css" />
```

CSS3 Internal Media Query
(inside Stylesheet)

```css
body{
   background:blue;
   }


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

Welcome to Dabblet

All

```
/**
 * The first commented line is your dabblet's title
 */

background: #f06;
background: linear-gradient(45deg, #f23, blue);
min-height: 100%;
font-family: lucida grande;
padding: 40px;
```

```
<!-- content to be placed inside <body>…</body> -->

<h1>Welcome to Dabblet</h1>
```

Website

Re-directs mobile users to a *scaled-down* website.

JS Re-Direct

```
<script type="text/javascript">
var UA = navigator.userAgent;
var mobile  = /android|avantgo|blackberry|blazer|compal|
elaine|fennec|hiptop|iemobile|ip(hone|od)|iris|kindle|
lge |maemo|midp|mmp|opera m(ob|in)i|palm( os)?|phone|p
(ixi|re)\/|plucker|pocket|psp|symbian|treo|up\.(browser|
link)|vodafone|wap|windows (ce|phone)|xda|xiino/i.test
(UA);

if (mobile) {
document.location = "mobile.html";

else {
document.location = "index.html";
}
</script>
```

Link to Full Site

http://www.mylibrary.com/?redirect=0

Projects ▾   **Blog**   **About**   **Contact Me**   **Forum**   **Support Me** ▾   Search 🔍

Home > Projects > iWebKit

iWebKit

iWebKit is a file package designed to help you create your own iPhone, iPod Touch and iPad compatible website or webapp.

The kit is accessible to anyone even people with little html knowledge and is simple to understand thanks to the included user guide. In a couple of minutes you will have created a profesional looking website. iWebKit is thee framework of choice because it is very easy to use, it loads extremely fast, is compatible with all devices & extendable. It is simple html that anyone can edit contrary to some other complicated solutions based on ajax. Simplicity is the key!

Ads by Google   Design to CSS   Free Software   Apple Iphone   Web Software

⬇ **Download**   💲 **Commercial License**   📱 **Demo**

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Learn Sencha Touch 🔊

Build Mobile Apps with Sencha Touch

Sencha Touch was the first HTML5 mobile JavaScript framework for web applications that feel native on Android, BlackBerry, and iOS. Our extensive tutorials, screencasts and resources are a great way to learn the framework. Here are a few good starting points:

The Sencha Touch Kitchen Sink Walkthrough ⊘
Sencha Touch Quick Start ⊘
A Hello World app with Sencha Touch ⊘
An Introduction To Layouts ⊘

Show All   Tutorials   Screencasts   Guides

Title	Version	Date Added ▼	Difficulty
Intro to Layouts in Sencha Touch 2 In Sencha Touch, the Component and Container form the basic building blocks for creating an interface. Each container can be assigned a Layout which handles the positioning of its inner items. The layouts work either by neatly arranging components to use the available space, or by showing just one component at a time and providing some way of changing the focus between them. In this tutorial, we'll see each different layout type in action and see how they can be combined in any manner you can think of.	2.x	Mar 15, 2012	Easy ●

Test

Does it *work?*

Browser window showing Simmons College Library website with developer tools Settings panel open.

Tab: S Library : Simmons College, E ×

Address bar: simmons.edu/library/

Bookmarks: ReadLater | Google Bookmark | NYTClean | Web Access Manage | Submitting iPhone A | HTML5 Doctor, help | Modernizr | using different CSS | jQuery for Absolute »

SCHOOLS   ALL PROGRAMS   OUR WEBSITES

SIMMONS Library

Search Simmons [Search]

Site A–Z   Directories   Contact Us

SERVICES   RESEARCH & RESOURCES   ARCHIVES   ASK A LIBRARIAN   ABOUT

Library

iPhone App   Mobile Site

e-resources

articles

catalog

reserves

Choose an E-Resource to Search:

Select....

View Complete List Of E-Resources »

Chat with a Librarian

Resources

Library Guides
Fulltext Journals
Library Catalog
E-Resources A–Z
E-Resources by Subject
New Library Materials
RefWorks
LibX Browser Plugin
Citation Resources

Library Services

Elements | Resources | Network | Scripts | Timeline | Profiles | Audits | Console

Search Elements

Settings

General
☐ Dock to right

Elements
☑ Word wrap

Styles
▶ Color format
  ● As authored
  ○ HEX: #DAC0DE
  ○ RGB: rgb(128, 255, 255)

Network
☐ Disable cache
☑ Override User Agent

Firefox 7 — Windows   Mozilla/5.0 (Windows

Scripts
☑ Show script folders
☐ Search in content scripts
☐ Enable source maps

html   body#library.lvl1.library.home

simmons.edu/library/

ReadLater | Google Bookmark | NYTClean | Web Access Manage | Submitting iPhone A | HTML5 Doctor, help | Modernizr | using different CSS | jQuery for Absolute »

SCHOOLS   ALL PROGRAMS   OUR WEBSITES

SIMMONS Library

Search Simmons   Search

Site A-Z   Directories   Contact Us

SERVICES   RESEARCH & RESOURCES   ARCHIVES   ASK A LIBRARIAN   ABOUT

Library

iPhone App   Mobile Site

Chat with a Librarian

e-resources

Choose an E-Resource to Search:

Select...

articles

catalog

View Complete List Of E-Resources »

reserves

Resources

Library Guides

Fulltext Journals

Library Catalog

E-Resources A-Z

E-Resources by Subject

New Library Materials

RefWorks

LibX Browser Plugin

Citation Resources

Library Services

Internet Explorer 9
Internet Explorer 8
Internet Explorer 7
Firefox 7 — Windows
Firefox 7 — Mac
Firefox 4 — Windows
Firefox 4 — Mac
iPhone — iOS 5
iPhone — iOS 4
iPad — iOS 5
iPad — iOS 4
Android 2.3 — Nexus S
✓ Other...

Mozilla/5.0 (Windows

Elements | Resources | Network | Scripts | Timeline | Profiles | Audits

Search Elements

⊘ * Settings

PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/
http://www.w3.org/1999/xhtml">

▶ Computed Style   Show inherited

General

▼ Styles   + ⚙ ⚙▾

element.style {

}

☐ Dock to right

▼<body id="library" class="lvl1 library home">
<div id="cboxOverlay" style="display: none; "></div>
▼<div id="colorbox" class style="padding-bottom: 57px; padding-right: 28px; displa
▶ <script type="text/javascript"></script>
<script src="http://www.google-analytics.com/ga.js" type="text/javascript"></scrip
▶ <script type="text/javascript"></scrip

}

Matched CSS Rules

media="screen"   /librar

screen.css(28

Elements

☑ Word wrap

<!-- Navigation -->
<p id="skipNavigation"></p>
▶<div id="container"></div>

media="screen"

body {   screen.css(5

    width: 100%;

}

Styles

▶ Color format

    <!-- close container -->
▶<div id="footer"></div>

media="screen"   /librar

body {   screen.css

▶ background: ■#331007 url('/library/i/site/bg-b-

▶ font: 62.5%/1 "Lucida Grande", arial, helvetica

Scripts

● As authored

☑ Show script folders

}

○ HEX: #DAC0DE

☐ Search in content scripts

media="screen"

○ RGB: rgb(128, 255, 255)

☐ Enable source maps

body {   resetnew.css

<script type="text/javascript" src="/j/sifr3.js"></script>
<script type="text/javascript" src="/library/j/sifr-config.js"></script>

□ ⋝ Q   html   body#library.lvl1.library.home

S Simmons Library Mobile Hom ×

← → C (ⓘ www.simmons.edu/library/m/

ReadLater Google Bookmark NYTClean Web Access Manage Submitting iPhone HTML5 Doctor, help Modernizr using different CSS jQuery for Absolute »

SIMMONS Library *Mobile*

Hours ›

Maps & Directions ›

Library Catalog ›

Library Guides ›

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Simmons College Library
300 The Fenway Boston, MA 02115
617.521.2780
library@simmons.edu

⊗ 🔲 Elements 🔲 Resources ◉ Network 📋 Scripts 🕑 Timeline 🔲 Profiles 🔍 Audits 🔲 Console   🔍 Search Elements

✳ **Settings**

General
☐ Dock to right

Elements
☑ Word wrap

Styles
 Color format
  ◉ As authored
  ◉ HEX: #DAC0DE
  ◉ RGB: rgb(128, 255, 255)

Network
☐ Disable cache
☑ Override User Agent
  [iPhone — iOS 5 ⬍] [Mozilla/5.0 (iPhone; C]

Scripts
☑ Show script folders
☐ Search in content scripts
☐ Enable source maps

▶ Computed Style   ☐ Show Inherited
▼ Styles   + 🔲 ⚙-
element.style {

}
Matched CSS Rules
media="screen"   /library/
                                   style-Simmons.css:
           nd: ■#331007;

}
media="screen"   /library/
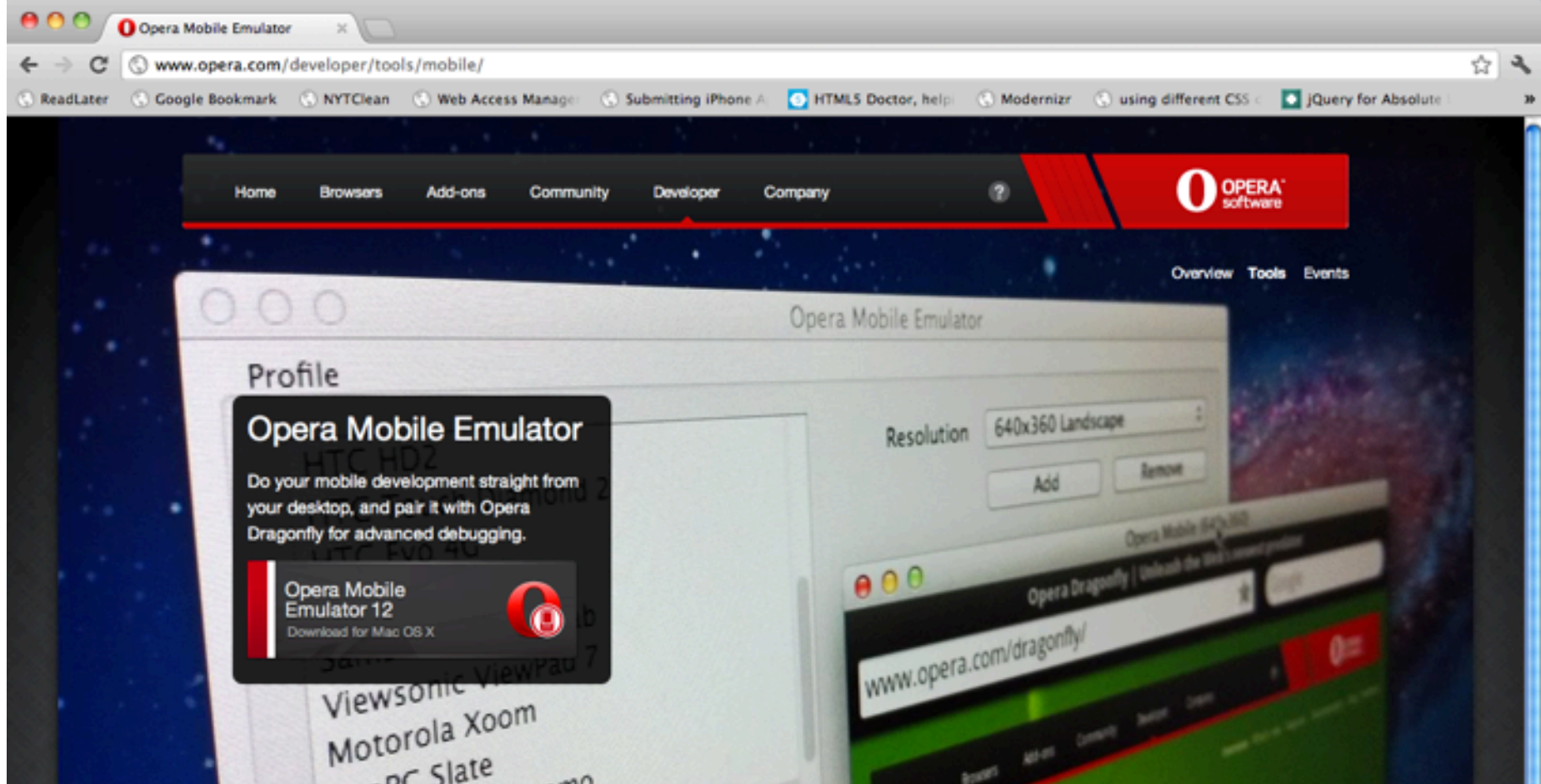body {   style.css:
  position: relative;
▶ margin: 0;
  -webkit-text-size-adjust: none;
  min-height: 416px;
  font-family: helvetica,sans-serif;
  -webkit-background-size: 0.438em 100%;

🔲 >≣ 🔍 html body

Home   Browsers   Add-ons   Community   Developer   Company   ?

OPERA software

Overview **Tools** Events

Profile

Opera Mobile Emulator

Do your mobile development straight from your desktop, and pair it with Opera Dragonfly for advanced debugging.

Opera Mobile Emulator 12
Download for Mac OS X

Resolution   640x360 Landscape

Add   Remove

www.opera.com/dragonfly/

HTC HD2
HTC Desire
HTC Evo 4G

Viewsonic ViewPad 7
Motorola Xoom
Slate

Screenshots

Developer luxury

Developing for mobile phones and tablets becomes a breeze. The emulator is super simple to install and lets you do serious mobile development from your desktop.

Launching pad

Use the launcher to spawn multiple Opera Mobile instances with a defined resolution, pixel density, input mode and more, and save your settings as profiles for future testing.

Connect with Opera Dragonfly

Connect the Opera Mobile Emulator to Opera Dragonfly and do your mobile CSS, JS and performance debugging, using a powerful developer toolkit.

Opera » Developer » Tools » Opera Mobile Emulator

Get Opera	Add-ons	Company	Press	Business	Useful links
Windows, Mac & Linux	Opera Link	About Opera	Press releases	Overview	Support
Mobile phones	Opera Unite	Jobs	Press resources	Network operators	Documentation
Tablets	Opera Mail	Investors	Opera Video	Mobile OEMs	Knowledge base
	Opera Turbo	Executive team	Fast facts	Device OEMs	Site map

Assess

But does it REALLY *work?*
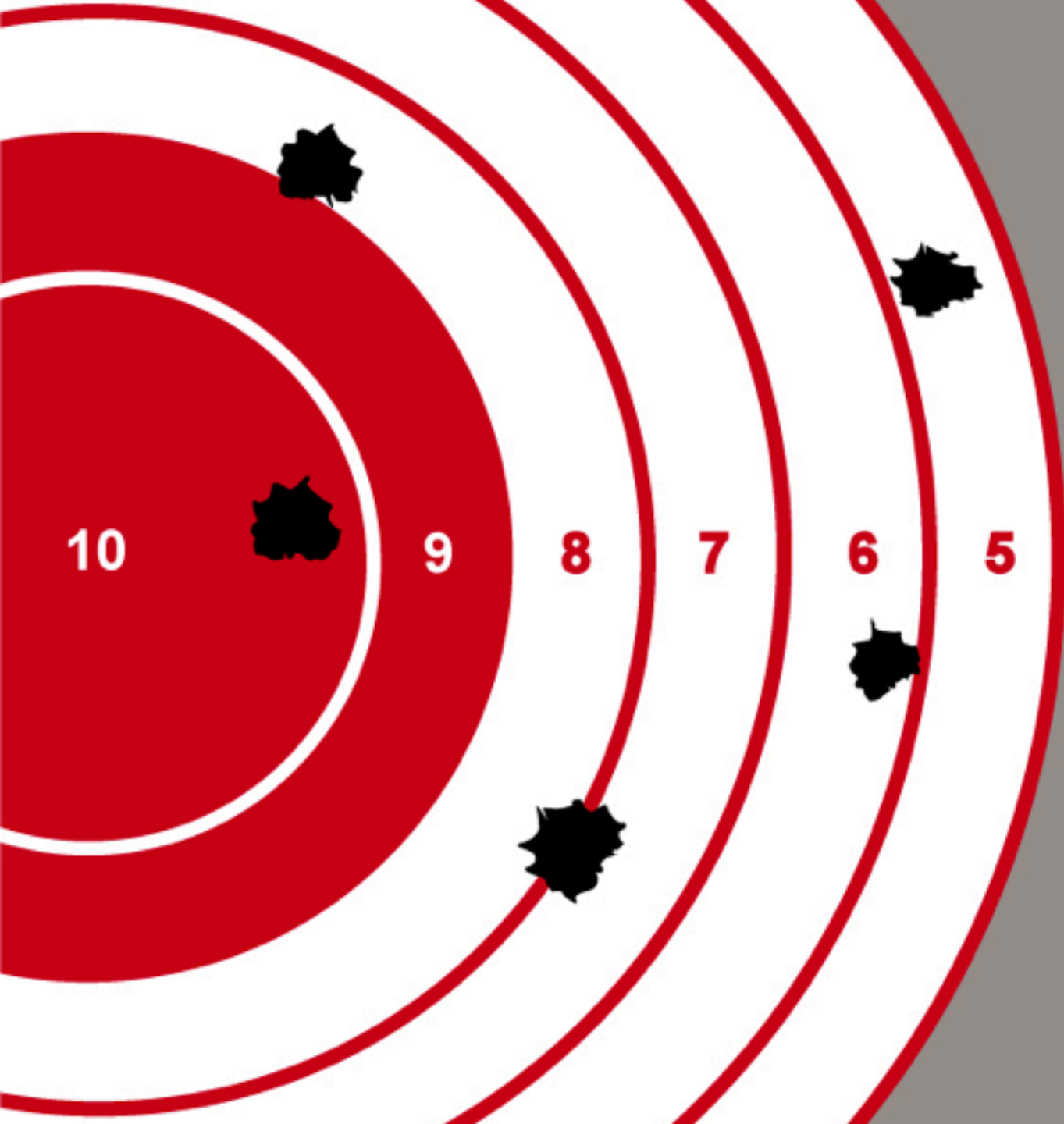
10 9 8 7 6 5

SIMMONS Library

HOME | SERVICES | RESEARCH & RESOURCES | ARCHIVES | ASK A LIBRARIAN | ABOUT

Library Catalog

Search the Catalog
  Basic Search
  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

KEYWORD | bears | Search

☐ Limit to available items

227 results found. Sorted by **relevance** | date | title .

Result Page: **1** 2 3 4 5 Next

Save Marked Records   Save All On Page   Save to List

KEYWORDS (1–50 of 227)
« bears » found in main title of entries 1–67

1 ☐ **In the bear's forest**
Pettersson, Bertil, 1932–
Stockholm ; New York : Raben & Sjogren, c1991

Location	Call Number	Status
Children's Literature – Level G	j599.7 P566i	AVAILABLE

2 ☐ **The bears of Yellowstone**
Schullery, Paul
Worland, WY : High Plains Pub. Co., 1992

Location	Call Number	Status
Books – Level G	QL737.C27 S36 1992	AVAILABLE

3 ☐ **Big Bear's treasury : a children's anthology**
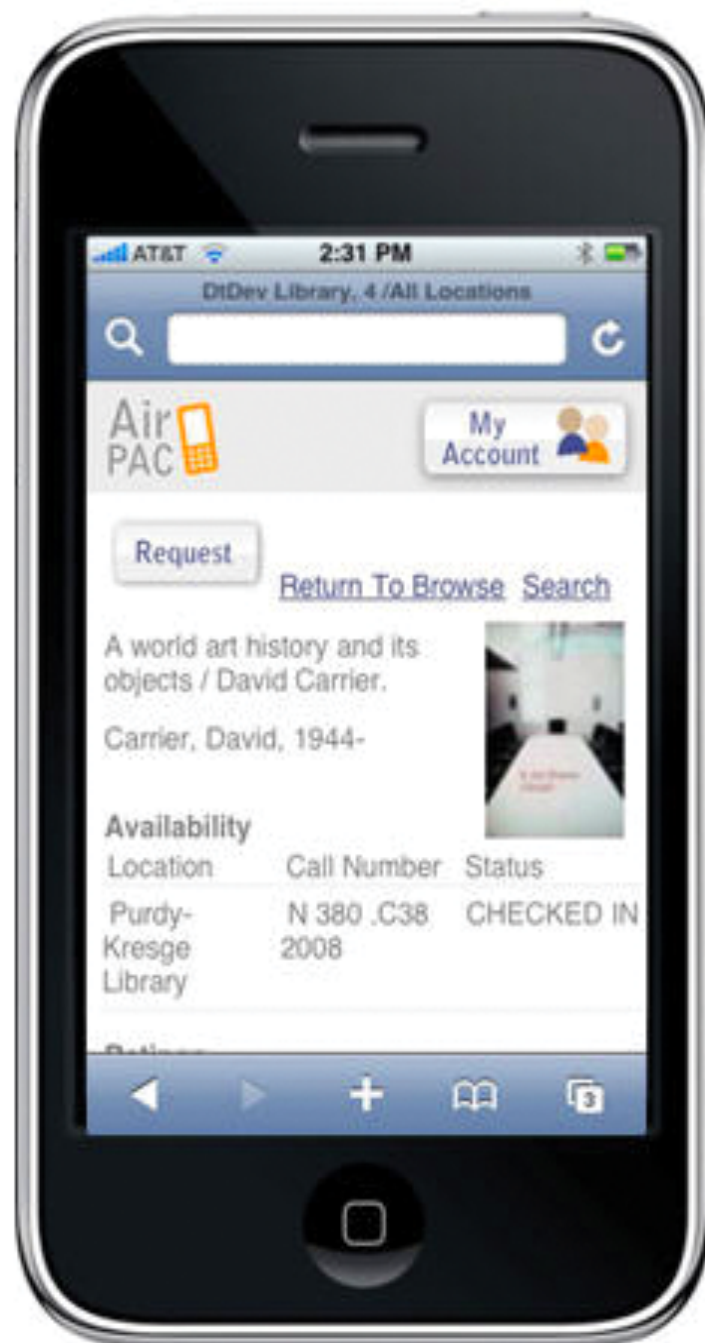Cambridge, Mass. : Candlewick Press, 1992–

Location	Call Number	Status
Children's Literature – Level G	j808.83 B53b v.2	AVAILABLE
Children's Literature – Level G	j808.83 B53b v.1	AVAILABLE

4 ☐ **When the teddy bears came**
Waddell, Martin
Cambridge, Mass. : Candlewick Press, 1995

Location	Call Number	Status
Children's Literature – Level G	jP W111w	AVAILABLE

DtDev Library, 4 /All Locations

🔍 [   ] ↻

Air PAC 📱

My Account 👥

Request

Return To Browse Search

A world art history and its objects / David Carrier.

Carrier, David, 1944-

Availability

Location	Call Number	Status
Purdy-Kresge Library	N 380 .C38 2008	CHECKED IN

mobilecat

A mobile library catalog interface

Summary   People

Project Information

+1 Recommend this on Google

☆ Starred by 8 users
Project feeds

Code license
GNU GPL v3

Labels
mobile, php, ajax, library

Members
tricoad...@brynmawr.edu,
anna...@gmail.com
1 committer

MobileCat

Developed at the Tri-College libraries, MobileCat provides a mobile-ready interface to III WebOPACs. It is written in PHP.

An example of this web application can be viewed at http://m.tripod.brynmawr.edu

Discuss this project at our new google group: http://groups.google.com/group/mobilecat

Prerequisites

- PHP version >= 5.1.6
  - servers running PHP 5.1.x must also install PECL json extension, included in standard releases after 5.2.
- PECL HTTP: http://pecl.php.net/package/pecl_http (This can be installed via PEAR)
- Simple HTML DOM parser: http://simplehtmldom.sourceforge.net/
- Smarty templates: http://www.smarty.net/

Download

Download MobileCat version 1.1.

Installation

This is the first release of this software to the general public. The following steps should be all that is required to get the software working with your WebOPAC. However, there may be differences in configuration that we did not foresee. Please help us make this software and documentation better if it needs tweaking to work with your WebOPAC installation.

- Install all prerequisites listed above
- Edit the template file **briefcit.html** in your WebOPAC installation and insert the following code (do **not** indent the code, as the WebOPAC requires data tags to start at the beginning of a line):

```css
html {
    -webkit-text-size-adjust: none;
}


body {
 background: none;
 width: 100%;
// border: 5px solid green;
}

p{
        font-size:12px;
        }

a{
color: #04708E !important;
}

/*SIMMONS ELEMENTS*/
#header{
        display: none;
}

#mobileHeader{
        display:block;
        }

#container{
        margin-left:0px !important;
        margin-right:0px !important;
        margin-bottom:0px !important;
        width:100% !important;

}


#content {
    background-attachment: scroll;
    background-clip: border-box;
    background-color: transparent;
    background-image: none;
    background-origin: padding-box;
    background-position: 0 0;
    background-repeat: repeat-y;
    background-size: auto auto;
    width:100%;
    }

#navigationContainer{
        display:none;
        }

#xsitenav{
        display:none;
}
```

SIMMONS Library *Mobile*

Search the Library Catalog

Enter keywords...

Search

SIMMONS Library

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Library Catalog

Search the Catalog
  Basic Search
  Advanced Search
  Journal Title Search
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New Materials

Other Libraries

FAQs

Catalog Help

Request a Purchase

Course Reserves

Interlibrary Loan

Contact Us

[Limit/Sort]

KEYWORD ▼ | harry potter | [Search]
☐ *Limit to available items*

38 results found. Sorted by **relevance** | date | title .

[Save Marked Records]   [Save All On Page]   [Save to List]

KEYWORDS (1–38 of 38)
  « harry potter » found in main title of entries 1–13

Reading Harry Potter : critical essays

1 ☐   Westport, Conn. : Praeger, 2003.

BOOK

Location	Call Number	Status
Books – Level G	PR6068.O93 Z84 2003	DUE 04–26–12

From Alice to Harry Potter : children's fantasy in England

2 ☐   Manlove, C. N. (Colin Nicholas), 1942–
Christchurch, New Zealand : Cybereditions, c2003.

BOOK

Location	Call Number	Status
Books – Level G	PR149 .F35 M36 2003	AVAILABLE

A guide to the Harry Potter novels

3 ☐   Eccleshare, Julia.
London ; New York : Continuum, 2002.

BOOK

Location	Call Number	Status
Books – Level G	PR6068.O93 Z59 2002	AVAILABLE

Re-Design, Re-Think, Re-Test

← → C ⓘ library.simmons.edu/screens/smallscreen.css   ☆

Ⓒ ReadLater   Ⓒ Google Bookmark   Ⓒ NYTClean   Ⓒ Web Access Manage   Ⓢ Submitting iPhone A   Ⓞ HTML5 Doctor, help   Ⓒ Modernizr   Ⓒ using different CSS   Ⓙ jQuery for Absolute

```
html {
    -webkit-text-size-adjust: none;
}


body {
 background: none;
 width: 100%;
// border: 5px solid green;
}

p{
        font-size:12px;
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a{
color: #04708E !important;
}

/*SIMMONS ELEMENTS*/
#header{
        display: none;
}

#mobileHeader{
        display:block;
        }

#container{
        margin-left:0px !important;
        margin-right:0px !important;
        margin-bottom:0px !important;
        width:100% !important;
}


#content {
    background-attachment: scroll;
    background-clip: border-box;
    background-color: transparent;
    background-image: none;
    background-origin: padding-box;
    background-position: 0 0;
    background-repeat: repeat-y;
    background-size: auto auto;
    width:100%;
    }

#navigationContainer{
        display:none;
        }

#xsitenav{
        display:none;
        }
```

KEYWORD ⇕ bears Search

☐ *Limit to available items*

227 results found. Sorted by **relevance** | date | title .

Result Page: **1** 2 3 4 5 Next

« bears » found in main title of entries 1–67

In the bear's forest
Pettersson, Bertil, 1932–
Stockholm ; New York : Raben & Sjogren, c1991

The bears of Yellowstone
Schullery, Paul
Worland, WY : High Plains Pub. Co., 1992

Big Bear's treasury : a children's anthology

Cambridge, Mass. : Candlewick Press, 1992–

When the teddy bears came
Waddell, Martin
Cambridge, Mass. : Candlewick Press, 1995

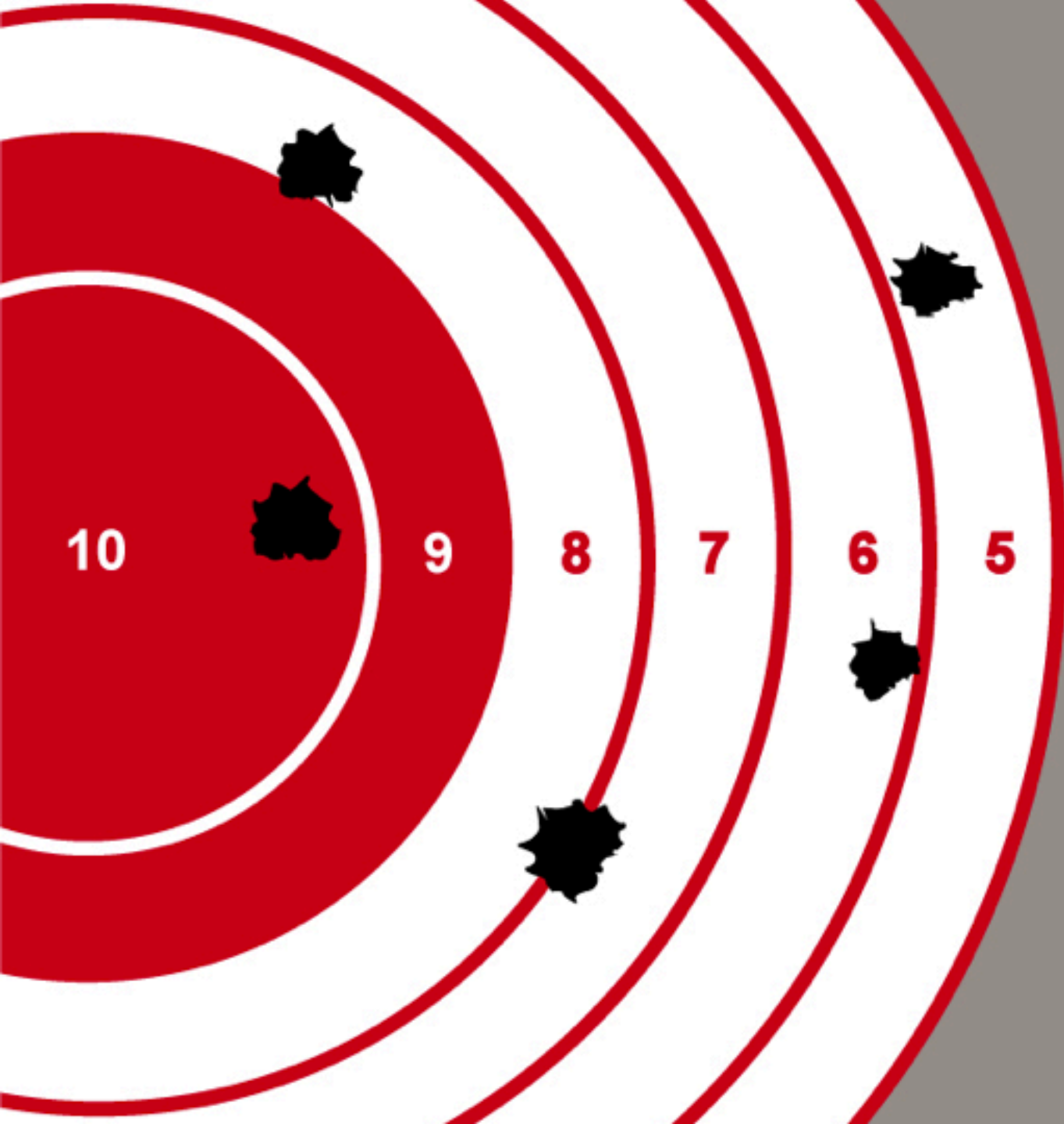### The boy who lived with the bears : and other Iroquois stories
Bruchac, Joseph, 1942–
New York : HarperCollinsPublishers, c1995

The earth under Sky Bear's feet : native American poems of the land
Bruchac, Joseph, 1942–
New York : Philomel Books, 1995

Re-Assess

Thank You

Amy Deschenes
Systems & Web Applications Librarian
Beatley Library, Simmons College
Boston, MA

All resources & tools available at:
http://tinyurl.com/87huzlt