

Take the HTML5 Tour!

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Franklin D. Schurz Library
Indiana University South Bend
Indiana Library Federation Annual Conference

November 15, 2011



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SOUTH BEND**



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A Bit of History

1995
HTML 2.0

1997
HTML 3.2

1997
HTML 4.0

2000
XHTML 1.0

2004
Rise of
HTML5



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Why Pay Attention to HTML5?

- New elements
- Backward compatible
- Reduces plug-ins
- Increase interactivity
- Increasing popularity





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Current HTML5 Support

- <http://html5test.com>
 - <http://findmebyip.com>
 - <http://caniuse.com>
-



The Outline Algorithm

- Think of it as a table of contents
 - Section and heading content is used to define the outline
 - Body is established as the outline root
 - Items are added to the outline as sectioning content is found
 - Initial heading content is used to name sections
 - Sectioning content contained within sections is nested in the outline
-



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Current Page Structure

INDIANA UNIVERSITY SOUTH BEND
Main Navigation

[ABOUT](#) | [ACADEMICS](#) | [ADMISSIONS](#) | [STUDENT LIFE](#) | [COSTS & FINANCIAL AID](#) | [LIBRARY](#) | [LEADERSHIP](#)

College of Liberal Arts and Sciences

College Mission

Academics

Faculty and Staff

Students

Alumni

CLAS Calendar

This Week on Campus

CLAS Home

IU South Bend Home

Discover our world...

- Biological Sciences
- Chemistry and Biochemistry
- Computer and Informations Sciences
- Criminal Justice
- English
- General Studies
- Graduate Liberal Studies
- History
- Informatics
- Mathematical Sciences
- Philosophy
- Physics and Astronomy
- Political Science
- Psychology
- Sociology and Anthropology
- Women's Studies
- World Language Studies

For more information, click on the department's name on the photo to reach their departmental website.

CLAS News

Future of Reproductive Freedom
 Philosophy Day 2011
 Radioactivity from Japan to Seattle
 David Bell Reading Cemetery Girl
[See more stories>](#)

Main Content

Build skills that prepare you for your career and life

Every undergraduate student, regardless of major, takes courses in the College of Liberal Arts and Sciences. Since a liberal arts education is the heart of the university, our college is vitally important to the campus. The liberal arts education you receive at IU South Bend will develop your skills of critical thinking and communication as well as expose you to a wealthy of knowledge.

Student Profiles (click on photo)

Faculty Profiles (click on photo)

Support the College

CLAS Banner

Left Navigation

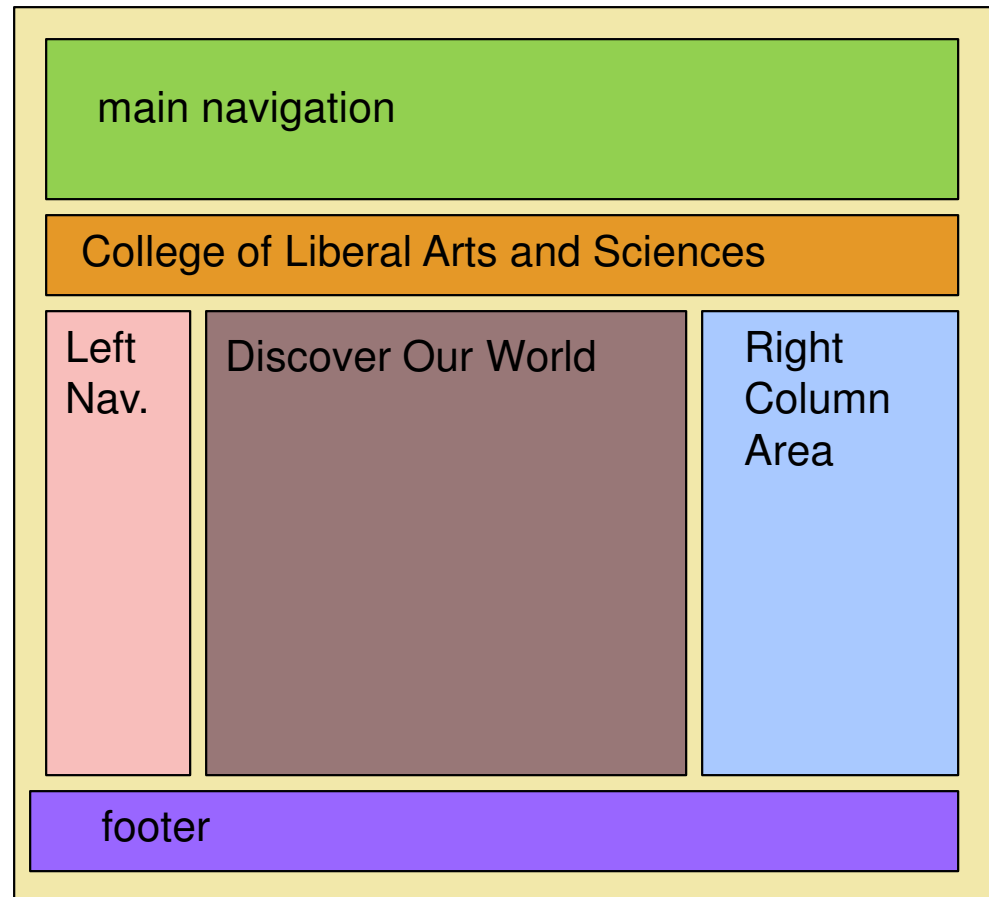
Right Column Area



Outline Page Structure

College of Liberal Arts and Sciences

1. Main page navigation
2. Left navigation
3. Discover our world
 - i. CLAS News
 - ii. Build skills that prepare you for your career and life
4. Right column area
 - i. Student profiles
 - ii. Faculty profiles
 - iii. Donation

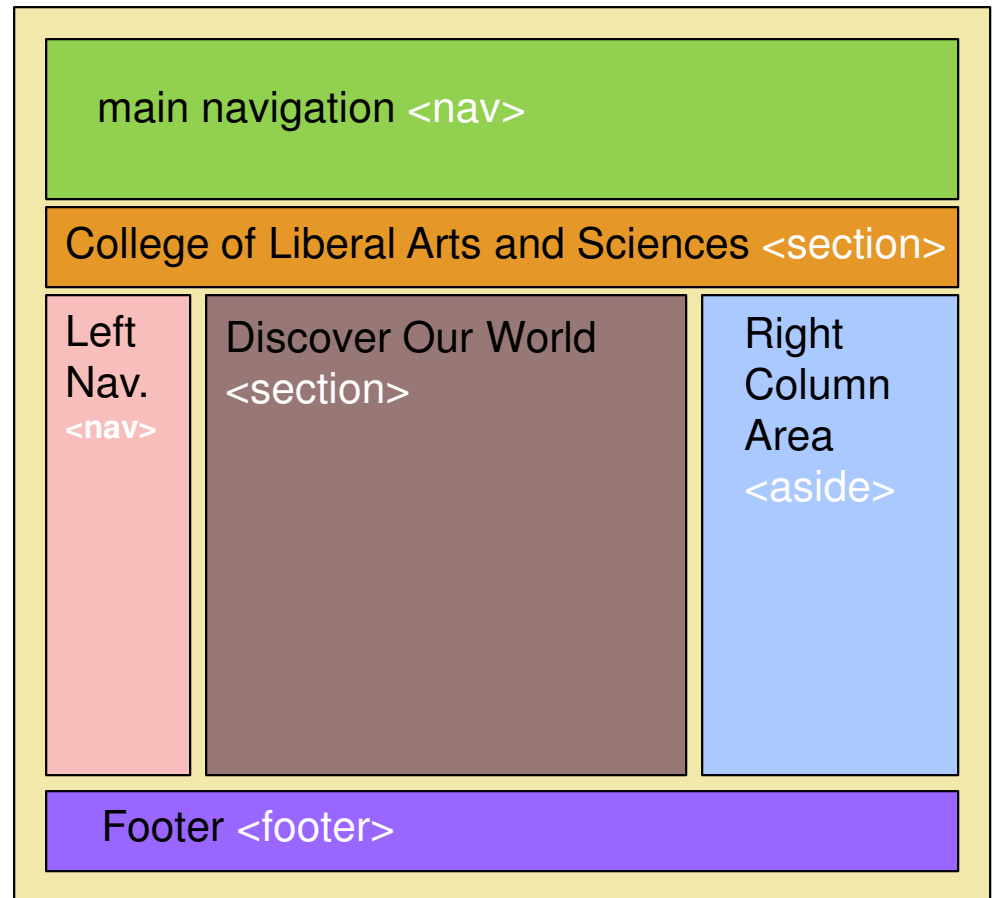




Structuring Page Content

Structural Tags:

- nav
- aside
- footer
- section

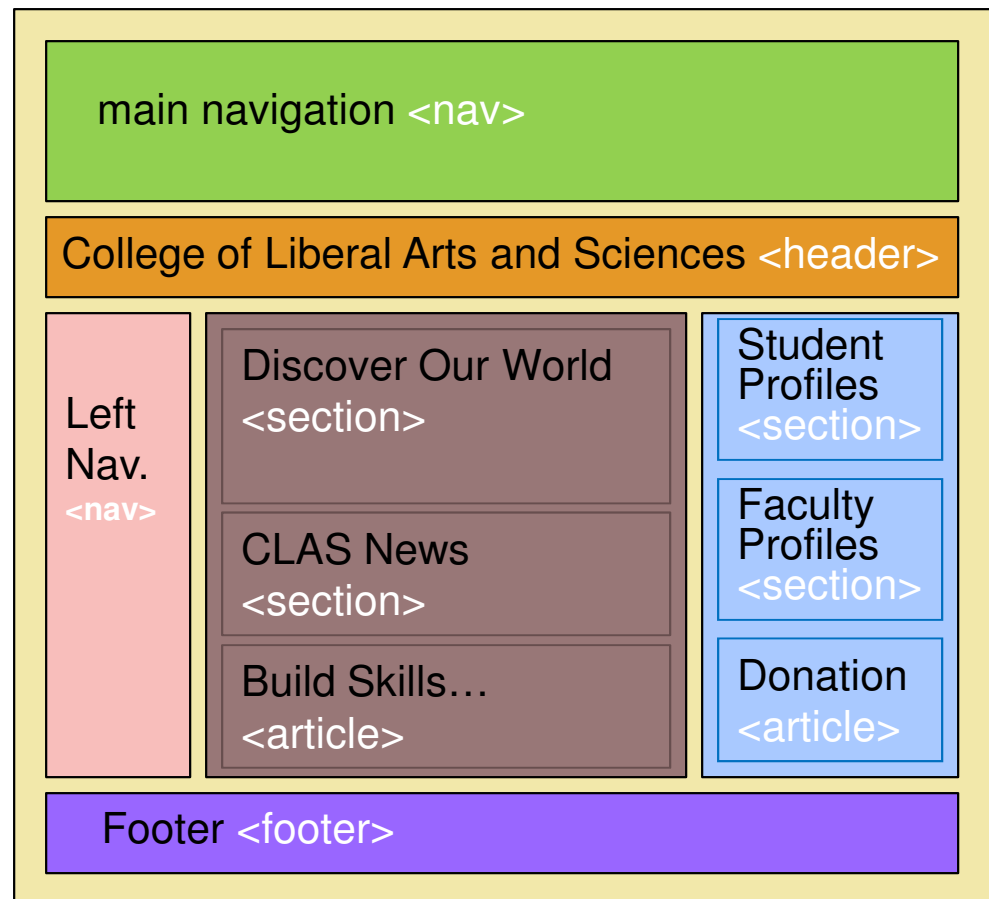




Structuring Interior Content

Structural Tags:

- nav
- header
- footer
- section
- article





Put Them All Together

```
<body>
<heading>
<h1>College of Liberal Arts and Sciences</h1>
</heading>
<section>
<h1>Discover our world</h1>
<p>Links to departments</p>
</section>
<section>
<h1>CLAS news</h1>
<p>New stories</p>
</section>
<article>
<h1>Build skills that prepare you for your career and
    life</h1>
<p>Every undergraduate student.....</p>
</article>
<aside>
<h1>Right content area</h1>
<section>
<h1>Student Profiles</h1>
</section>
<section>
<h1>Faculty Profiles</h1>
</section>
<article>
<h1>Donation</h1>
</article>
</aside>
</body>
```

1. College of Liberal Arts and Sciences
 1. Discover our world
 2. CLAS news
 3. Build skills that prepare you for your career and life
 4. Right content area
 1. Student Profiles
 2. Faculty Profiles
 3. Donation



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Check with Document Outlines

- Google Chrome plug-in
- HTML5 Outliner
 - <http://gsnedders.html5.org/outliner>



Getting Started.....

~~<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">~~

<!DOCTYPE HTML>



~~<html xmlns="http://www.w3.org/1999/xhtml" lang="en-US">~~



<html lang="en">

~~<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />~~



<meta charset="UTF-8">



Forms in HTML5

Franklin D. Schurz Library

Lib. Home > Html5 > Forms

Reserve a Conference Room

Fill in the form below and click "Send Request" button to send the request to Library Business Operations Manager Sue LeFevre (slefevre@iusb.edu). You will be contacted either by phone or email to confirm the date and time of your reservation.

*Required.

Contact Information

*Name:

*Email:

*Phone:

Reservation Information

Date:

Time:

Number of User(s):

Conference Room Preference: L 301 L 406

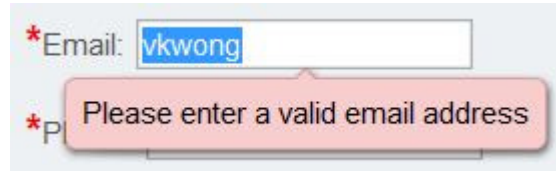
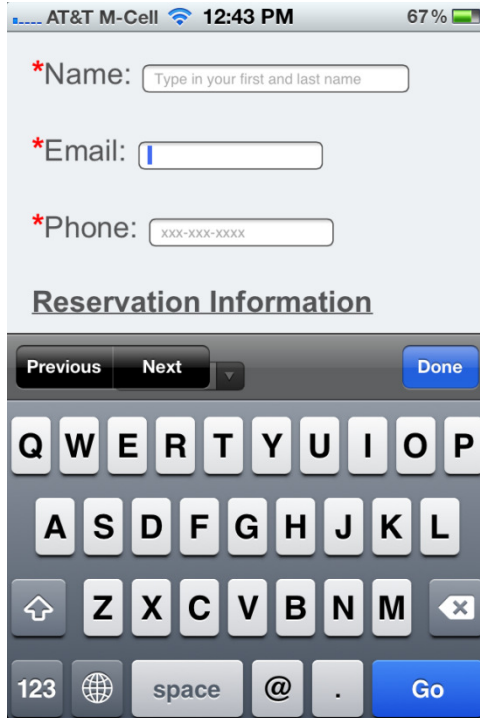
Organization/Club URL:

- New input types
- Data placeholder
- Date picker
- Required fields





Email and URL

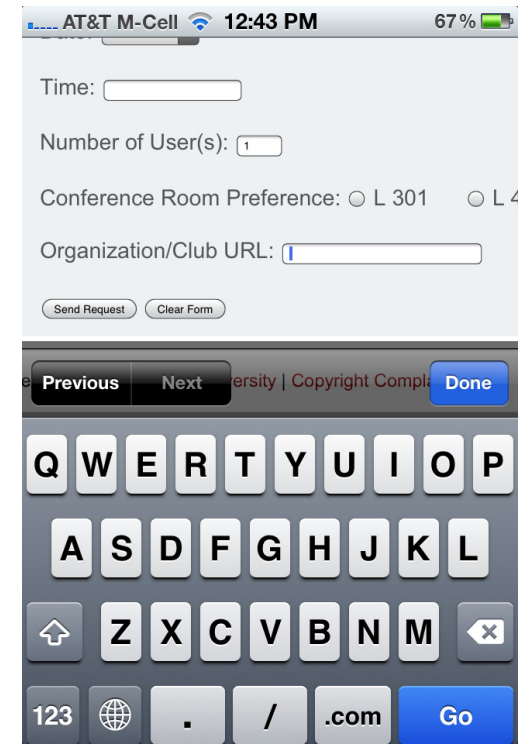


Email

Email: <INPUT
type="email"
NAME="Email"
SIZE="20" required>

Web Address

Organization/Club URL: <INPUT type="url"
NAME=" URL" SIZE="30">





Number

Number of User(s):

HTML 4

Number of User(s): `<input name="nouser" size="5">`

Number of User(s):

HTML5

Number of User(s): `<input type="number" name="nouser" size="5" min="1" value="1" max="10">`



Data Placeholder

*Name:

HTML 4

```
<input type='text' name= 'name' id= 'name ' onBlur="if(this.value=="  
  this.value='Type in your first and last name';"  
  onClick="if(this.value=='Type in your first and last name')  
  this.value='';" value="Type in your first and last name" />
```

HTML5

```
<INPUT type="text" NAME="Name" SIZE="30" placeholder="Type  
in your first and last name">
```



Date Picker

HTML 4

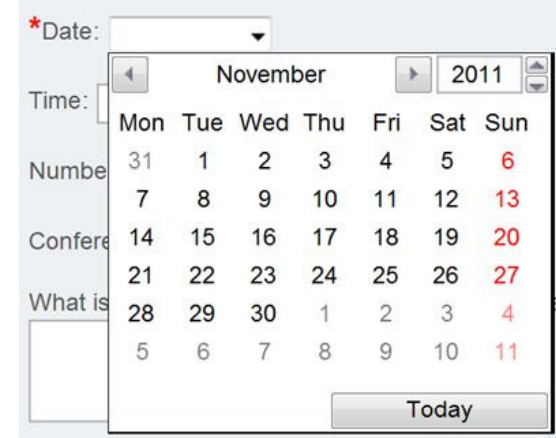


```

<font color='red' size="+1"><b>*</b></font>Date:
  <SELECT NAME='Month'>
<OPTION VALUE='mm'>mm</OPTION>
<OPTION VALUE='1'>Jan</OPTION><OPTION VALUE='2'>Feb</OPTION><OPTION
VALUE='3'>Mar</OPTION><OPTION VALUE='4'>Apr</OPTION><OPTION
VALUE='5'>May</OPTION><OPTION VALUE='6'>Jun</OPTION><OPTION
VALUE='7'>Jul</OPTION><OPTION VALUE='8'>Aug</OPTION><OPTION
VALUE='9'>Sep</OPTION><OPTION VALUE='10'>Oct</OPTION><OPTION
VALUE='11'>Nov</OPTION><OPTION VALUE='12'>Dec</OPTION>
</SELECT>&nbsp;

<SELECT NAME='Day'><OPTION VALUE='dd'>dd</OPTION><OPTION
VALUE='1'>1</OPTION><OPTION VALUE='2'>2</OPTION><OPTION
VALUE='3'>3</OPTION><OPTION VALUE='4'>4</OPTION><OPTION
VALUE='5'>5</OPTION><OPTION VALUE='6'>6</OPTION><OPTION
VALUE='7'>7</OPTION><OPTION VALUE='8'>8</OPTION><OPTION
VALUE='9'>9</OPTION><OPTION VALUE='10'>10</OPTION>
<OPTION VALUE='11'>11</OPTION><OPTION VALUE='12'>12</OPTION><OPTION
VALUE='13'>13</OPTION><OPTION VALUE='14'>14</OPTION><OPTION
VALUE='15'>15</OPTION><OPTION VALUE='16'>16</OPTION><OPTION
VALUE='17'>17</OPTION><OPTION VALUE='18'>18</OPTION><OPTION
VALUE='19'>19</OPTION><OPTION VALUE='20'>20</OPTION><OPTION
VALUE='21'>21</OPTION><OPTION VALUE='22'>22</OPTION><OPTION
VALUE='23'>23</OPTION><OPTION VALUE='24'>24</OPTION><OPTION
VALUE='25'>25</OPTION><OPTION VALUE='26'>26</OPTION><OPTION
VALUE='27'>27</OPTION><OPTION VALUE='28'>28</OPTION><OPTION
VALUE='29'>29</OPTION><OPTION VALUE='30'>30</OPTION>
<OPTION VALUE='31'>31</OPTION></SELECT>&nbsp;
<SELECT NAME='Year'><OPTION VALUE='yyyy'>yyyy</OPTION><OPTION
VALUE='2006'>2006</OPTION><OPTION VALUE='2007'>2007</OPTION>
</SELECT>

```



HTML5

```

<font color='red '
  size="+1"><b>*</b>
</font>Date:
<input type="date"
  name="date">

```



Required Fields



HTML 4

```
<FORM METHOD="POST"
  ACTION="conferencerm.php"name="conferenceroom"
  onSubmit="return (checkform())">
```

```
function checkform(){
  if (document.conferenceroom.Name.value == ""){
    alert("Name is required.");
    return false;
  }
  if (document.conferenceroom.Phone.value == ""){
    alert("Phone is required.");
    return false;
  }
}
```

HTML5

```
Name: <INPUT type="text" NAME="Name" SIZE="30"
placeholder="Type in your first and last name" required>
```



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Figure



Brandon Bauschke, Assismand Head of ERC

HTML5

```
<figure>
```

```
  
```

```
  <figcaption>
```

```
    Brandon Bauschke, Assismand Head of ERC
```

```
  </figcaption>
```

```
</figure>
```



HTML5 Video

- eliminate 3rd party plug-in dependencies
 - eliminate complicated deployment
 - current specification does not declare a standard video codec
 - H.264 (.mp4): Microsoft, Apple, Google
 - Ogg Theora (.ogv): Firefox, Opera, Google
 - VP8 (.webm): Google
-



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Encoding Video

- Firefox plug-in (<http://firefogg.org>)
 - ogv and webm
- HandBrake (<http://handbrake.fr/>)
 - mp4



Adding Video

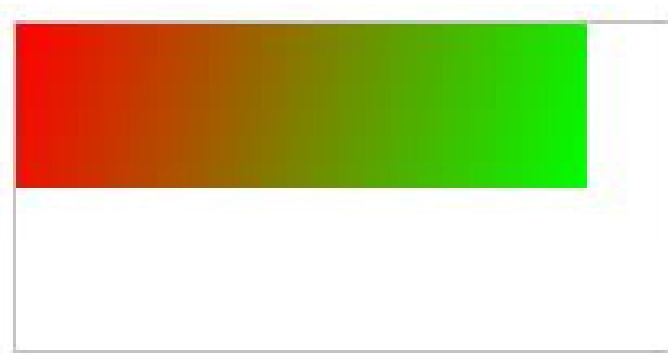


```
<video width="420" height=" 315" controls preload="false">  
<source src="_video/explore_promo.mp4" type="video/mp4" />  
<source src="_video/explore_promo.ogv" type="video/ogg" />  
</video>
```



Canvas

- draw graphics on a web page



```
<canvas id="myCanvas" width="200" height="100"  
  style="border:1px solid #c3c3c3;">
```

Your browser does not support the canvas
element.

```
</canvas>
```

```
<script type="text/javascript">  
var c=document.getElementById("myCanvas");  
var cxt=c.getContext("2d");  
var grd=cxt.createLinearGradient(0,0,175,50);  
grd.addColorStop(0,"#FF0000");  
grd.addColorStop(1,"#00FF00");  
cxt.fillStyle=grd;  
cxt.fillRect(0,0,175,50);  
</script>
```



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Geolocations

LIBRARY FINDER

Because Libraries Are Awesome!

Libraries near: Lat: 41.683381 & Lng: -86.250006

- St Joseph County Public Library**
304 South Main Street (574) 282-4600
[Directions](#) [Place Page](#)
- St Joseph Law Library**
101 South Main Street (574) 235-9657
[Directions](#) [Place Page](#)
- Court Library**
204 S Main St # 316 (574) 246-8050
[Directions](#) [Place Page](#)
- University of Notre Dame Library**
221 Hesburgh Library (574) 631-5252
[Directions](#) [Place Page](#)
- South Bend Collections**
103 West Wayne Street (574) 289-2770
[Directions](#) [Place Page](#)
- Friends of the St Joseph County Public Library**
333 South Michigan St., South Bend, IN, 46601 (574) 282-4670
[Directions](#) [Place Page](#)
- Architecture Library**
117 Bond Hall (574) 631-6654
[Directions](#) [Place Page](#)

What Tweeters near are you saying about libraries:

- cookymonsterXD1**
Sittin in the library. Just bored. I tried reading the news paper..but that got boring.
Wed, 09 Nov 2011 16:44:16
- iRun_o4FUN**
@ErnestBclark ., in class. she said friday is in the library!
Wed, 09 Nov 2011 16:06:49
- Consumer4rights**
@KOMUnews @komuMegan Daniel Boone Regional Library settled a discrimination with me before they remodeled, The Maintence only hire black ppl

<http://10k.aneventapart.com/Entry/Details/548>



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Address

Written by Mary Lee
574-520-0989

<address>

Written by Mary Lee

574-520-0989

</address>



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Mark

Do not forget to buy **milk** today.

<p>Do not forget to buy <mark>milk</mark> today.</p>



Details

▼ Details

If your browser supports this element, it should allow you to expand and collapse these details.

```
<details open="open">
```

```
<p>If your browser supports this element, it should allow  
you to expand and collapse these details.
```

```
</p>
```

```
</details>
```



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Ruby

... hàn zì ...
... 汉字 ...

```
<p lang="zh-CN">...
```

```
<ruby>
```

```
 汉 <rt> hàn </rt>
```

```
 字 <rt> zì </rt>
```

```
</ruby>
```

```
...</p>
```



What tags are fading away?

- Presentational
 - basfont, big, center, font, s, strike, tt, u
- Accessibility and usability
 - frame, frameset, noframes
- Low usage
 - acronym, applet, isindex, dir

Attributes

a, link: rev, charset	All block level: align
img: longdesc, name, hspace, vspace	table, tr, th, td: bgcolor
html: version	table: border, cell padding, cell spacing, valign
th: abbr	td, th: height, width
td: scope	body: background



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Helpful Resources

W3C HTML5 Tutorials

- <http://www.w3schools.com/html5/default.asp>

McGrath, Mike. *HTML5 in Easy Steps*. Southam: Easy Steps Limited, 2011. Print.

Lawson, Bruce, and Remy Sharp. *Introduction to HTML5*. Berkeley: New Riders, 2011. Print.

Video for Everybody

- http://camendesign.com/code/video_for_everybody

CanvasDemos

- <http://www.canvasdemos.com>
-



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5 Things to Remember about HTML5

1. Still being develop
 2. Won't break your old site
 3. More semantic
 4. Codecs matter
 5. Not all-browser compatible
-



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Questions?

Feel free to contact me at

- Email: vk Wong@iusb.edu
 - AIM: himffy
 - Yahoo: vincci_kwong
 - MSN: vincci-kwong@hotmail.com
 - Phone: 574-520-4444
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