diverse applications

Big Software

Opportunistic Software

# of Lines of Code

Applications
diverse platforms
diverse people
“good grief, I don’t even remember the syntax for forms!”
HTML Forms and Input

HTML Forms are used to select different kinds of user input. This example illustrates how to create text fields on an HTML page.

www.w3schools.com/html/html_forms.asp - 34k - Cached - Similar pages

Forms in HTML documents

An HTML form is a section of a document containing normal content, markup, special elements called controls (checkboxes, radio buttons, menus, etc.)

www.w3.org/TR/html401/interact/forms.html - 138k - Cached - Similar pages

HTML Tutorial - Forms

An overview of each HTML form type with examples of code for each type of form

www.Ektron.com

HTML Sample Forms

Choose From Around 100 Samples. In Industry Since 1998. Contact Now!

www.FormSite.com/HTML

Make Web Forms in Minutes

Text Areas, Drop Down Boxes & More No Programming - Free Trial!

www.coffeecup.com

Easy HTML Form Builder

Build web forms, add validation, & store data. No code required!

www.Ektron.com
(You can find more examples at the bottom of this page)

**Forms**

A form is an area that can contain form elements.

Form elements are elements that allow the user to enter information (like text fields, drop-down menus, radio buttons, checkboxes, etc.) in a form.

A form is defined with the `<form>` tag.

```html
<form>
 .
 input elements
 .
</form>
```

**Input**

The most used form tag is the `<input>` tag. The type of input is specified with the `type` attribute.

The most commonly used input types are explained below.

**Text Fields**
The Form's Action Attribute and the Submit Button

When the user clicks on the "Submit" button, the content of the form is sent to the server. The form's action attribute defines the name of the file to send the content to. The file that is to be sent usually does something with the received input.

```html
<form name="input" action="html_form_submit.asp" method="get">
    Username:
    <input type="text" name="user" />
    <input type="submit" value="Submit" />
</form>
```

How it looks in a browser:

Username:  

If you type some characters in the text field above, and click the "Submit" button, your input will be sent to a page called "html_form_submit.asp". The page will show the received input.

More Examples
The Form's Action Attribute and the Submit Button

When the user clicks on the "Submit" button, the content of the form is sent to the form's action attribute defines the name of the file to send the content to. The file action attribute usually does something with the received input.

```html
<form name="input" action="html_form_submit.asp" method="get">
  Username:
  <input type="text" name="user" />
  <input type="submit" value="Submit" />
</form>
```

How it looks in a browser:

Username: [text field] Submit

If you type some characters in the text field above, and click the "Submit" button, it will send your input to a page called "html_form_submit.asp". The page will show your received input.
<form name="input" action="html_form_submit.asp" method="get">
  Username:
  <input type="text" name="user" />
  <input type="submit" value="Submit" />
</form>
<h1>My Awesome Chatroom</h1>
<form action="html_form_submit.asp" method="get">
<textarea></textarea>
<br>
Username:
<input type="text" name="user" />
<br>
Message:
<input type="text" name="msg" />
<input type="submit" value="Submit" />
</form>
My Awesome Chatroom

Username: 
Message:  
Submit
The Web lowers the costs of creating, sharing, and accessing examples.
<?xml version="1.0" encoding="utf-8"?>
    <mx:Script>
        <![CDATA[
        ...
        ]]>
    </mx:Script>
</mx:WindowedApplication>
<?xml version="1.0" encoding="utf-8"?>
<![CDATA[
private function loadData():Boolean {
   return true;
}
]]>
</mx:Script>
</mx:WindowedApplication>
  <![CDATA[
    private function loadData():Boolean {
      busy cursor |
    }
  ]]>}
</mx:Script>
</mx:WindowedApplication>
<?xml version="1.0" encoding="utf-8"?>
<mx:WindowedApplication xmlns:mx="http://www.adobe.com/2006/mxml" layout="absolute" applicationName="mx">
    <mx:Script>
        <![CDATA[
            private function loadData():Boolean {
                busy cursor
                return true
            }
        ]]>  
    </mx:Script>
</mx:WindowedApplication>
Flex 3 - Using a busy cursor


You can modify the example in Creating and removing a cursor to use the default busy cursor. The following example shows:

```xml
<?xml version="1.0"?>

    <mx:Script>
        <![CDATA[
            import mx.managers.CursorManager;
            import flash.events.*;

            private function initImage(event:MouseEvent):void {
                CursorManager.setBusyCursor();
                Image.load("/assets/bbe00934.png");
            }

            private function loadComplete(event:Event):void {
                CursorManager.removeBusyCursor();
            }
        ]]>
    </mx:Script>
</mx:Application>
```

Flex 3 - Using a busy cursor


You can modify the example in Creating and removing a cursor to use the default busy cursor by using the following example shows:

```xml
<?xml version="1.0"?>
<!-- cursors\DefBusyCursorApp.mxml -->
<mx:Script>
<![CDATA[
    import mx.managers.CursorManager;
    import flash.events.*;

    private function initImage(event:MouseEvent):void {
        CursorManager.setBusyCursor();
        Image.load("http://www.adobe.com/mxart/assets/ball.jpg");
    }

    private function loadComplete(event:Event):void {
        CursorManager.removeBusyCursor();
    }
]]>
</mx:Script>
</mx:Application>
```
private function loadData():Boolean {
    //@query:'busy cursor'
    CursorManager.setBusyCursor();

    return true;
}
]]></mx:Script></mx:WindowedApplication>
<?xml version="1.0" encoding="utf-8"?>
  <![CDATA[
    private function loadData():Boolean {
        //@query:'busy cursor'
        CursorManager.setBusyCursor();

        return true;
    }
  ]]>}
</mx:Script>
</mx:WindowedApplication>
    <mx:Script><![CDATA[
        private function loadData():Boolean {
            //@query:'busy cursor'
            CursorManager.setBusyCursor();

            return true;
        }
    ]]>}
</mx:Script>
</mx:WindowedApplication>
<?xml version="1.0" encoding="utf-8"?>
    <mx:Script>
        <![CDATA[
            private function loadData():Boolean {
                //@query:'busy cursor'
                CursorManager.setBusyCursor();
                return
            }
        ]]>}
    </mx:Script>
</mx:WindowedApplication>
<mx:WindowedApplication xmlns:mx="http://www.adobe.com/2006/mxml" layout="absolute" applicationTitle="">

<mx:Script>
<![CDATA[

private function loadData():Boolean {
    //@query:'busy cursor'
    CursorManager.setBusyCursor();

    return {
        url
    }
}
]]>

</mx:Script>
</mx:WindowedApplication>
<?xml version="1.0" encoding="utf-8"?>
  <mx:Script>
    <![CDATA[
      private function loadData():Boolean {
        //@query:'busy cursor'
        CursorManager.setBusyCursor();
        URLLoader[
          return true;
        ]]]>
      </mx:Script>
    </mx:WindowedApplication>
For example, to upload an XML packet to a server-side script, you could use the following ActionScript 3.0 code:

```actionscript
var secondsUTC:Number = new Date().getTime();
var dataXML:XML =
    <login>
        <time>{secondsUTC}</time>
        <username>Ernie</username>
        <password>guru</password>
    </login>;

var request:URLRequest = new URLRequest("http://www.yourdomain.com/login");
request.contentType = "text/xml";
request.data = dataXML.toXMLString();
request.method = URLRequestMethod.POST;
var loader:URLLoader = new URLLoader();
try {
    // Code to handle the response...
}
```
Flex 3 - Working with external data


⚠️ Warning: The code example below may contain security vulnerabilities. To learn more about writing Flash/Flex code, please read the following article.

The following code demonstrates how setting the URLLoader.dataFormat property to URLLoaderDataFormat.VARIABLES allows you to automatically parse loaded data into URLVariables object:

package
{
  import flash.display.Sprite;
  import flash.events.*;
  import flash.net.URLLoader;
  import flash.net.URLLoaderDataFormat;
  import flash.net.URLRequest;

  public class URLLoaderDataFormatExample extends Sprite
  {
    public function URLLoaderDataFormatExample()
    {
      var request:URLRequest = new URLRequest("http://www.[yourdomain.com]/yourfile.txt");
      var variables:URLVariables = new URLVariables();
    }
  }
}
<?xml version="1.0" encoding="utf-8"?>
<mx:WindowedApplication width="400" height="300" xmlns="mx">
    <![CDATA[
        private
        //@cc,$$@Curs
        public class ExternalDocs extends Sprite {

            public function ExternalDocs() {
                var request:URLRequest = new URLRequest("http://www.[yourdomain.com]");
                var loader:URLLoader = new URLLoader();
                loader.addEventListener(Event.COMPLETE, completeHandler);
                try {
                    loader.load(request);
                } catch (error:ArgumentError) {
                    trace("An ArgumentError has occurred.");
                } catch (error:SecurityError) {
                    trace("A SecurityError has occurred.");
                }
            }

            private function completeHandler(event:Event):void {
                var dataXML:XML = XML(event.target.data);
                trace(dataXML.toXMLString());
            }
        }
    ]]>}
</mx:WindowedApplication>
The executing SWF file for the previous example is shown below:
Blueprint’s content is written as examples
Blueprint Query Handling

1. User query: "chart"
2. Query: {query: "chart", language: "flex3", ...}
3. Augmented query: "chart + flex3"
4. Google
5. Result: (list of examples)
6. Result: (list of examples, docs, suggestions)
7. Result: (list of examples)
8. Result interface: rendered examples

Eclipse
Example Cache Database
Does example-centric search affect quality and efficiency?

- Between-subjects study w/ Flex programmers (n=20) “retrieve text from a URL and place it in a text box”
- Same tools. Only difference is Blueprint.
- Faster example finding -> faster programming (p<.01)
- ...and the code was rated higher quality! (p<.02)
Does example-centric search change how programmers work?

- Released on Adobe Labs (since May 2009)
- Logged queries and interface actions
- Analyzed logs after 3 months
  - Conducted interviews to generate hypotheses
  - Compared Blueprint logs to Adobe Community Help logs from the same period
- Blueprint: 17,012 queries from 2,024 users
- Community Help: 26,036 queries from 13,283 users
Results

• Example results often show sufficient information. People click through less often.

• Blueprint users query with code more often.

• The time cost of finding examples is lower in Blueprint. People will re-find more often.
“Only through imitation do we develop toward originality”

John Steinbeck
RESEARCH

I am interested in techniques to improve the design of computer systems with respect to their usefulness and usability. To that end, I have investigated the effectiveness and usability of several HCI techniques (e.g., think-aloud usability studies, Cognitive Walkthrough, GOMS) and produced new techniques for bringing usability concerns to the design process (e.g., CPM-GOMS and software architecture evaluation for usability). Much of my work focuses on cognitive modeling, where I work within a unified theory of cognition to develop models of human performance that produce quantitative predictions of performance with less effort than prototyping and user testing. I also work on bridging the gap between HCI and software engineering, specifically including usability concerns in software architecture design.

Two active research projects have their own websites.

- Usability and Software Architecture (U&SA)
- The CogTool Project: a Tool for Cognitive Modeling

TEACHING

I teach courses in HCI design and evaluation methods. I was the Director of the Master of Human-Computer Interaction Program for almost a dozen years, stepping down in January 2009.

FULL CURRICULUM VITAE (.pdf)
content

Welcome to Gmail

A Google approach to email.

Gmail is built on the idea that email can be more intuitive, efficient, and useful. And maybe even fun. After all, Gmail has:

- **Less spam**
  - Keep unwanted messages out of your inbox with Google's innovative technology.

- **Mobile access**
  - Read Gmail on your mobile phone by pointing your phone's browser to http://gmail.com. Learn more.

- **Lots of space**
  - Over 7.4GB (7504861 megabytes) of free storage.

Latest News from the Gmail Blog

- 5 tips for using Priority inbox
  - Tue Sep 09 2009
  - It's been a week since we launched Priority Inbox, and now that you've hopefully had a chance to try ...

New to Gmail? It's free and easy.

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style

log in to mint.com

Don't have an account? Sign up now.

Did you forget your password? Recover it here.

Email

Password

Stay signed in

Can't access your account?

Remember my email on this computer

Log In

GET HELP | ABOUT US | HOW WE KEEP YOU SAFE | PRIVACY & SECURITY | TERMS OF USE
How do people map Web pages?
balance

semantic & structural

constraints
TREEmatching: too rigid

Produces a mapping that rigidly preserves ancestry
FLEXIBLE TREE MATCHING

- relaxes rigid ancestry constraint
- semantic, sibling, and ancestry cost model
- see our follow-up paper in IJCAI
MACHINE LEARNING

randomly pick a training pair

compute flexible tree mapping

\[ \sum x^2 \oint \]

update cost model

[Collins '02]
MACHINE LEARNING RESULTS

- visual: 53%
- visual and sibling: 67%
- visual and ancestry: 75%
- bricolage: 78%
rapid prototyping
Welcome to the portfolio of Rik Catlow, Internet Product Designer & Developer.

Creativity + Technology

Developing a product on the web requires many different skill-sets, from information architecture, user interface design, website design and development, to usability analysis, content management, search engine optimization and more. It’s not enough to have a great design or a strong technology platform; these need to be seamlessly integrated. In the last 12 years, I’ve worked for ground-floor start-ups to multi-national corporations and gained the experience for managing, building and developing web products from concept to launch.

Enjoy! — Rik Catlow

About Rik Catlow

This site is designed, coded and updated by me, Rik Catlow. I live with my wife Wassa, daughter Becca, and a fat tabby cat named Bo in Charlotte, NC. I currently work for Bank of America as Senior Visual Designer. I advocate for web standards, the user and visual design simplicity.

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4.07 Command Shift 3

Contact Info

Rik Catlow → Resume / Linkedin Profile
Email: rikcatindustries@gmail.com
Personal Site: rikcat.com
Twitter: @rikcat
Status: Interested in full-time opportunities
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Contact Info
Rik Catlow → Resume / Linkedin Profile
Email: rikcatindustries@gmail.com
Personal Site: rikcat.com
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Status: Interested in full-time opportunities

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Market
We help generate targeted traffic, manage quality and sustainable campaigns, and measure results to ensure a great ROI.

The Lounge

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Contact Info
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- Email: rikcatindustries@gmail.com
re-targeting between form factors
Spring 2010 jQuery Talks

I gave a number of talks this spring on jQuery and especially on some of the recent additions made in jQuery 1.4. Below are all the slides and demos that I've given.

The conferences / meetups that I spoke at (or will speak at, in the case of MIX), and the talks that I gave, are [...]  

.closest(Array) in jQuery 1.4

A new method signature is slated for jQuery 1.4: .closest(Array). It builds upon the previous .closest() method and hyper-optimizes the logic needed for handling event delegation (and live events).

closest() (and by extension, is()) has become a critical function in jQuery. With more people using live events reducing any overhead has become of the utmost importance. [...]  

.nodeName Case Sensitivity

When working with the DOM .nodeName property there are two hard-and-fast rules that most people abide by:

The node names of HTML elements are always uppercase, even if they're explicitly created using lowercase characters. <html> will result in a .nodeName === "HTML" (see the HTML 5 draft).
The node names of XML elements are always in the [...]  

« Previous entries
Spring 2010 jQuery Talks

I gave a number of talks this spring on jQuery and especially on some of the recent additions made in jQuery 1.4. Below are all the slides and demos that I've given.

JavaScript Secrets
Secret techniques of top JavaScript programmers.

@jerem
Infrequent, short, updates and links.

Pro JavaScript
The best techniques for

.closeest(Array) in jQuery 1.4

A new method signature is slated for jQuery 1.4: .closest(Array). It builds upon the previous .closest() method and hyper-optimizes the logic needed for handling event delegation (and live events). closest() (and by extension, is()) has become a critical function in jQuery. With more people using live events reducing any overhead

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Joel Brandt, Mira Dontcheva, Marcos Weskamp

CHI09, CHI10, IEEE09, No Code Required

Bricolage
Ranjitha Kumar, Jerry Talton, Salman Ahmad

CHI11