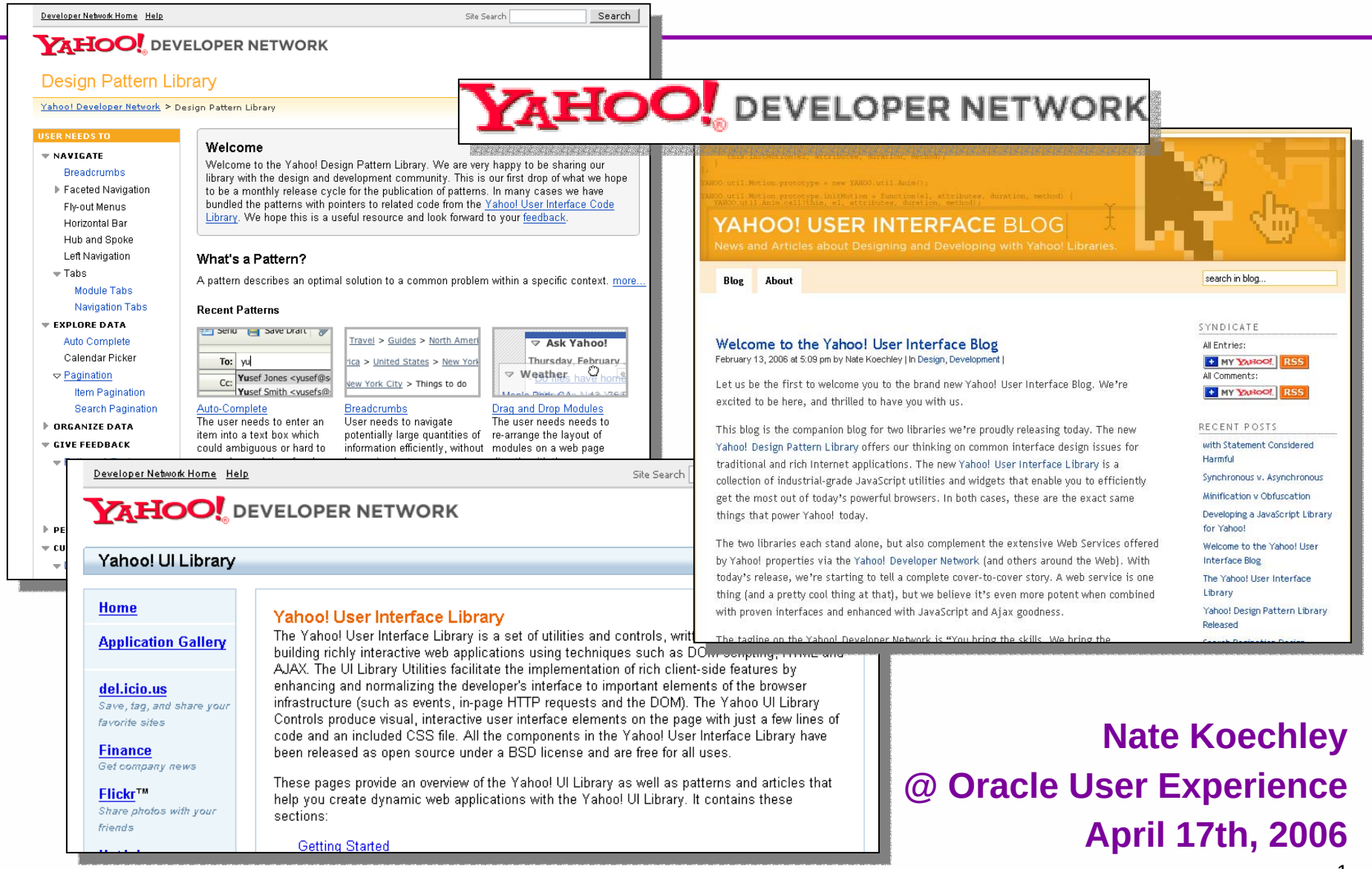
Yahoo! User Interface Library



Nate Koechley
@ Oracle User Experience
April 17th, 2006

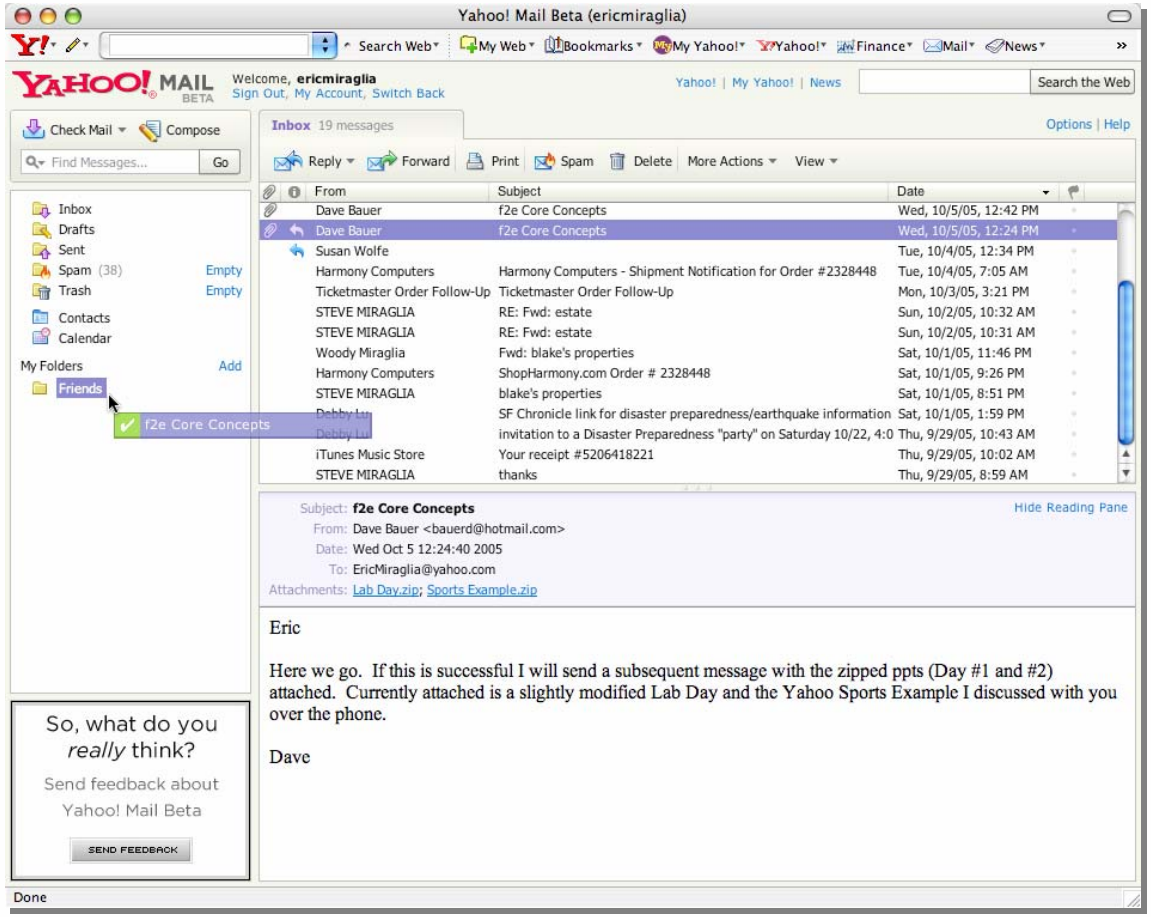
changing seasons

on the web

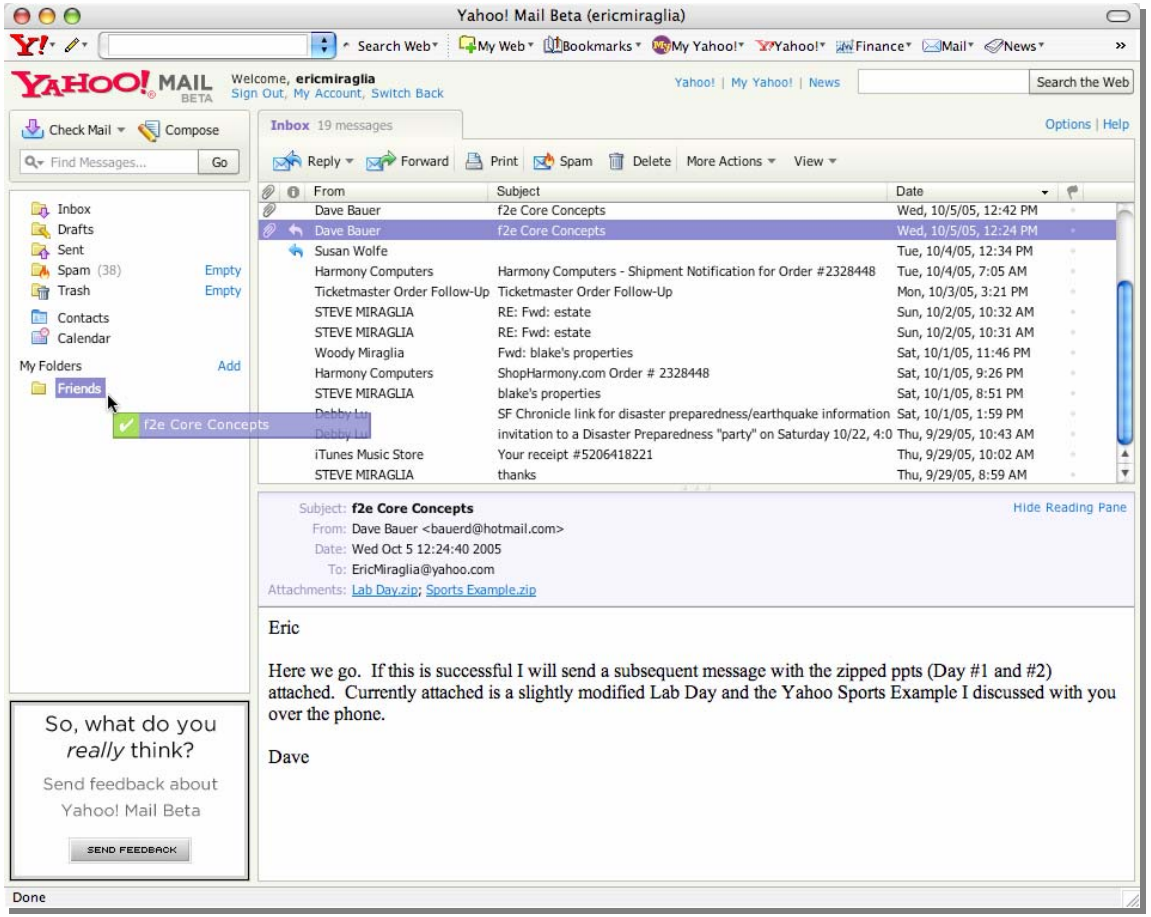
http://flickr.com/photos/getthebubbles/107463768/

Web 1.0: Browser as Paper

Web 2.0: Browser As Platform



A Dramatic Transition



People expect **less** online.

But people **are** online…

… and **tied to the browser**.

(for the most part)

http://www.flickr.com/photos/probek/44480413/

how?

http://flickr.com/photos/latitudes/104286031/

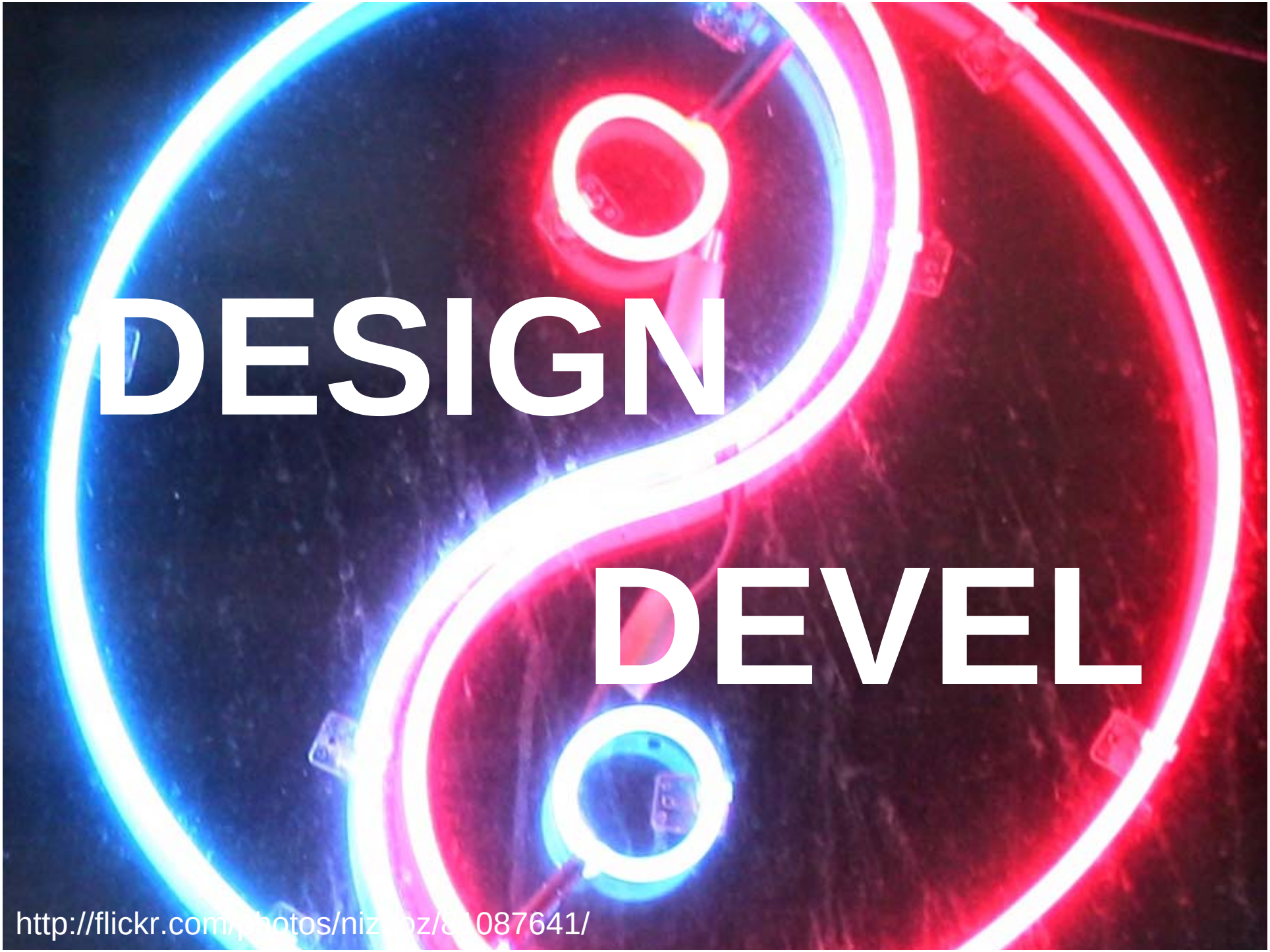
improve our technology

(need a robust platform!)

and

raise expectations

(so users are confident!)

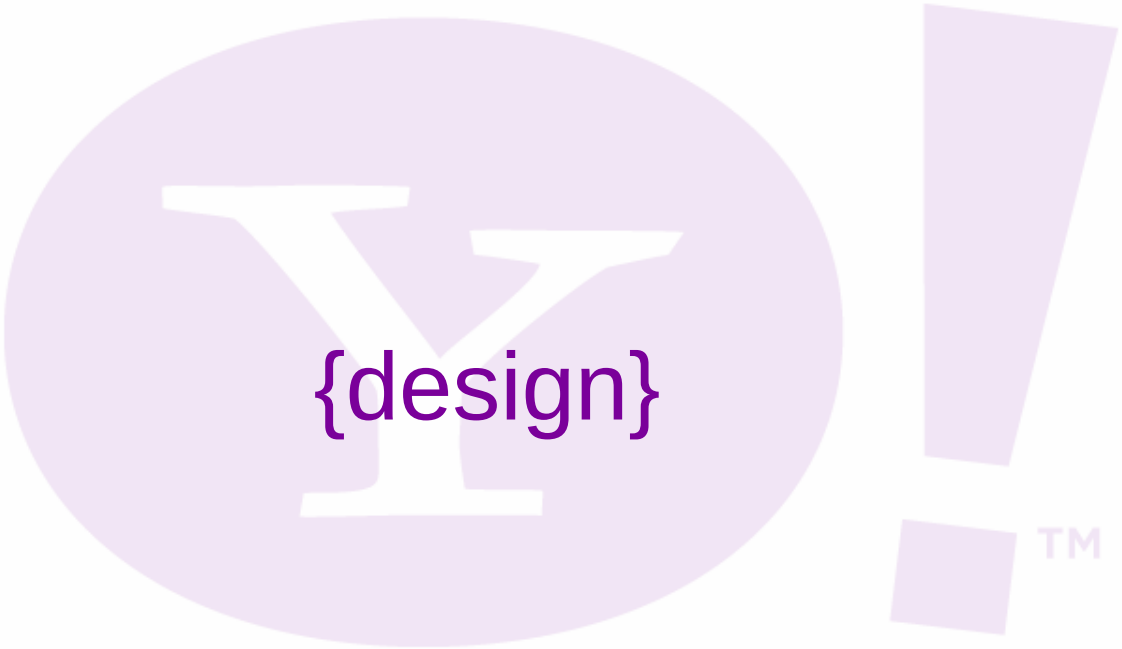

DESIGN
DEVEL
http://flickr.com/photos/niz

from **Heterogeneous Environments**

{development}

to **Compelling and Consistent APIs**

from **Implementation Models**



to **Mental Models**

6
Six
commitments to a
platform

1] Meet properties where they are today. Facilitate incremental enhancement.

("Transitional Internet Applications")

2] Provide a broad, inclusive platform for Web 2.0's "Rich Internet Application" development

(a la carte, not framework)

3] Extensible and adaptive, to meet the needs of our diverse product portfolio

(lots of different needs)

4] Support all A-grade browsers – an evolving and still demanding challenge

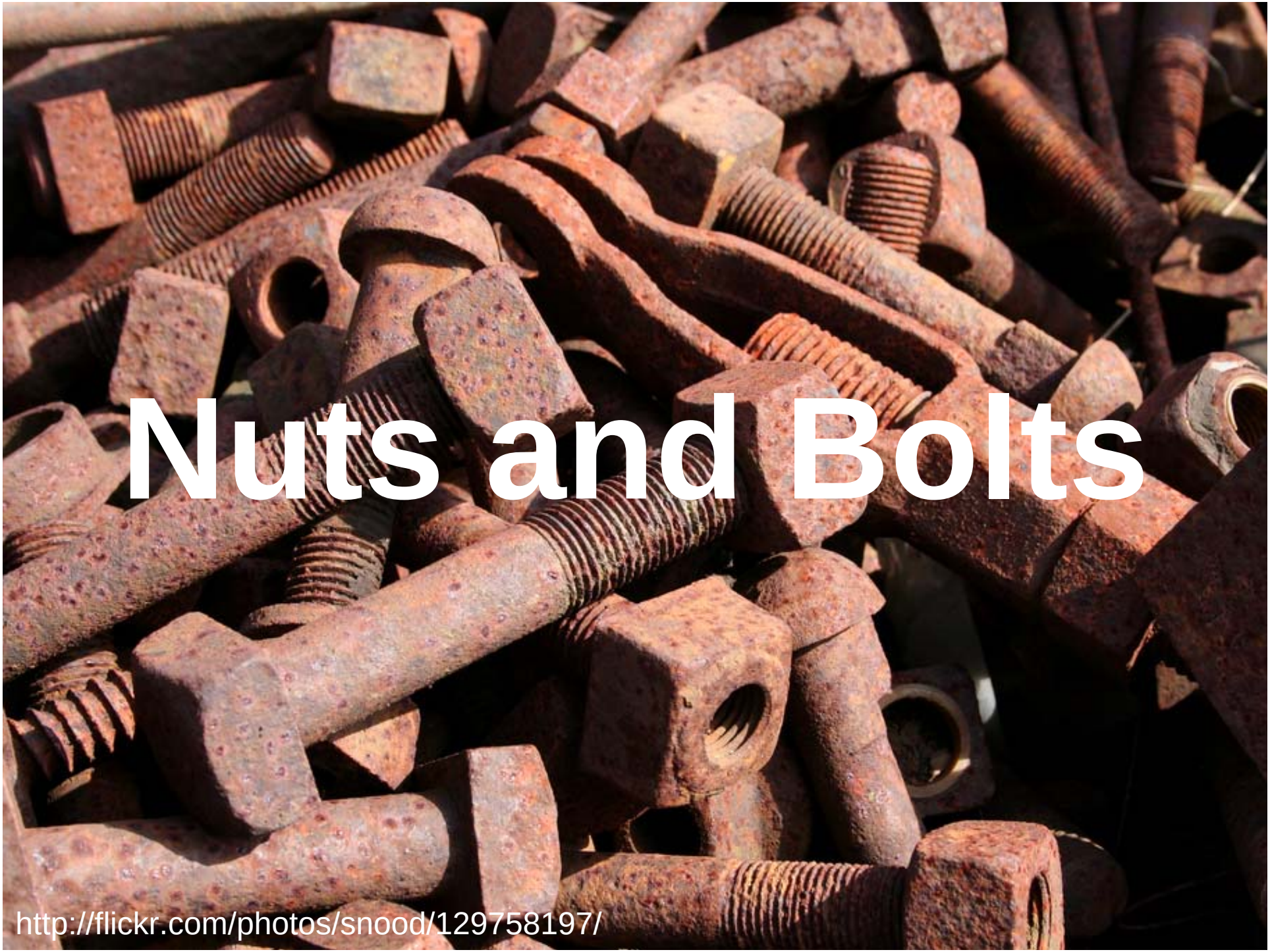
(Graded Browser Support)

5] Thrive under Yahoo!'s scale and scope

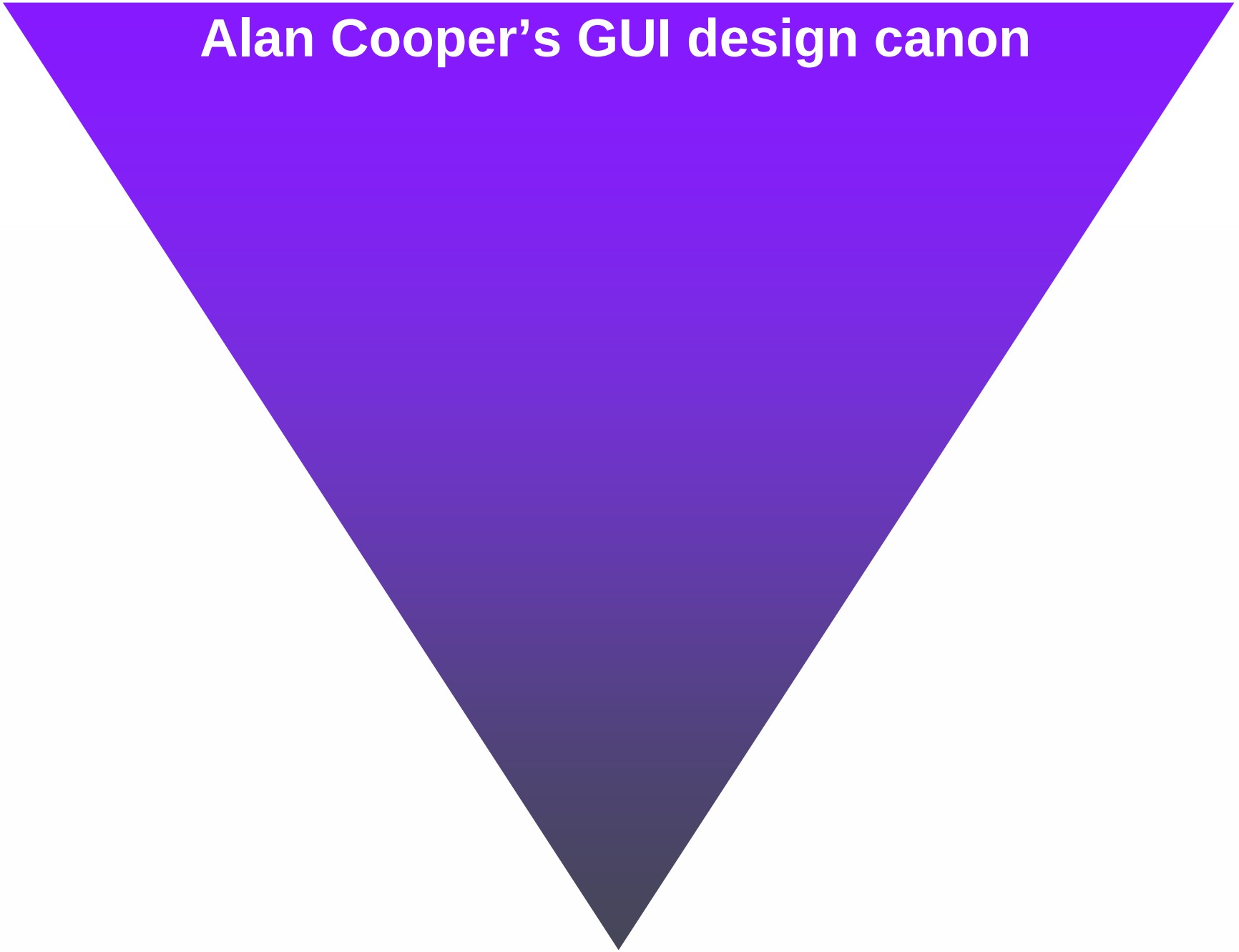
(industrial grade)

6] Be **responsive** and accountable **to** our community of **designers** & **engineers**

(your P1s are our P1s)


Nuts and Bolts
http://flickr.com/photos/snood/1297581 97/

Alan Cooper’s GUI design canon

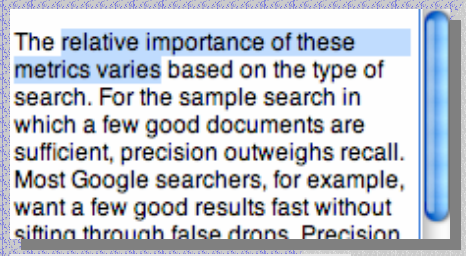


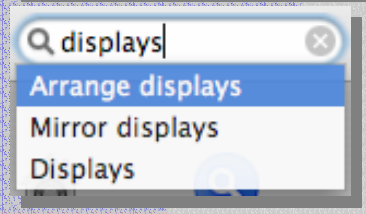
ctrl-c = copy,
ctr-z = undo

[idioms]

double-click,
right-click, select

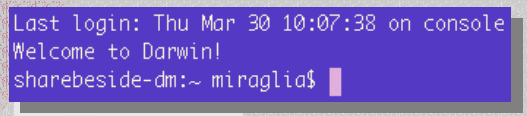
[compounds]

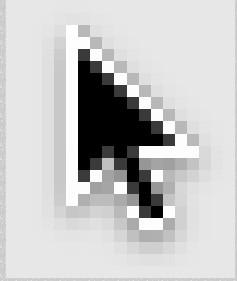




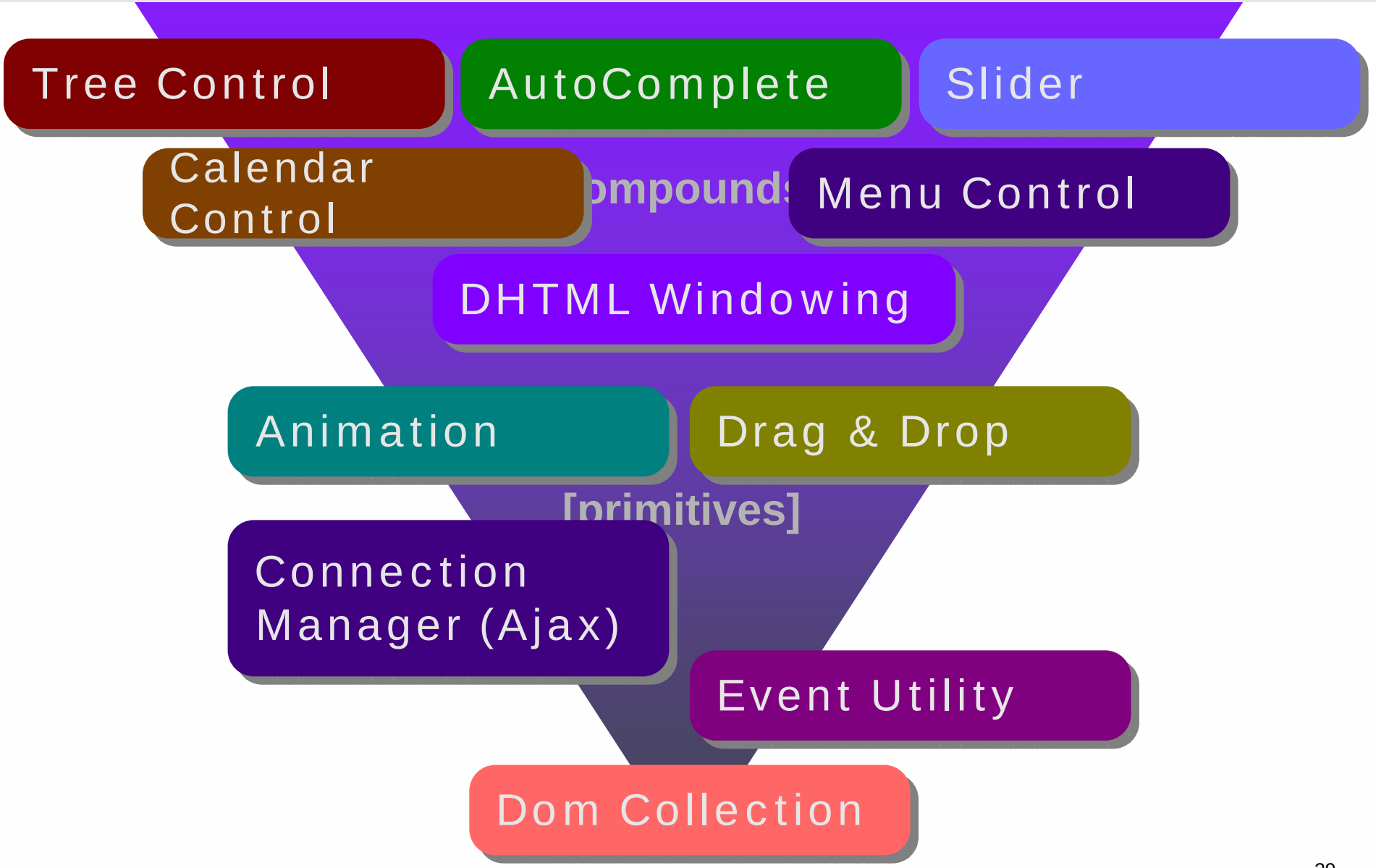
click, drag,
keypress

[primitives]





The Yahoo! User Interface Library

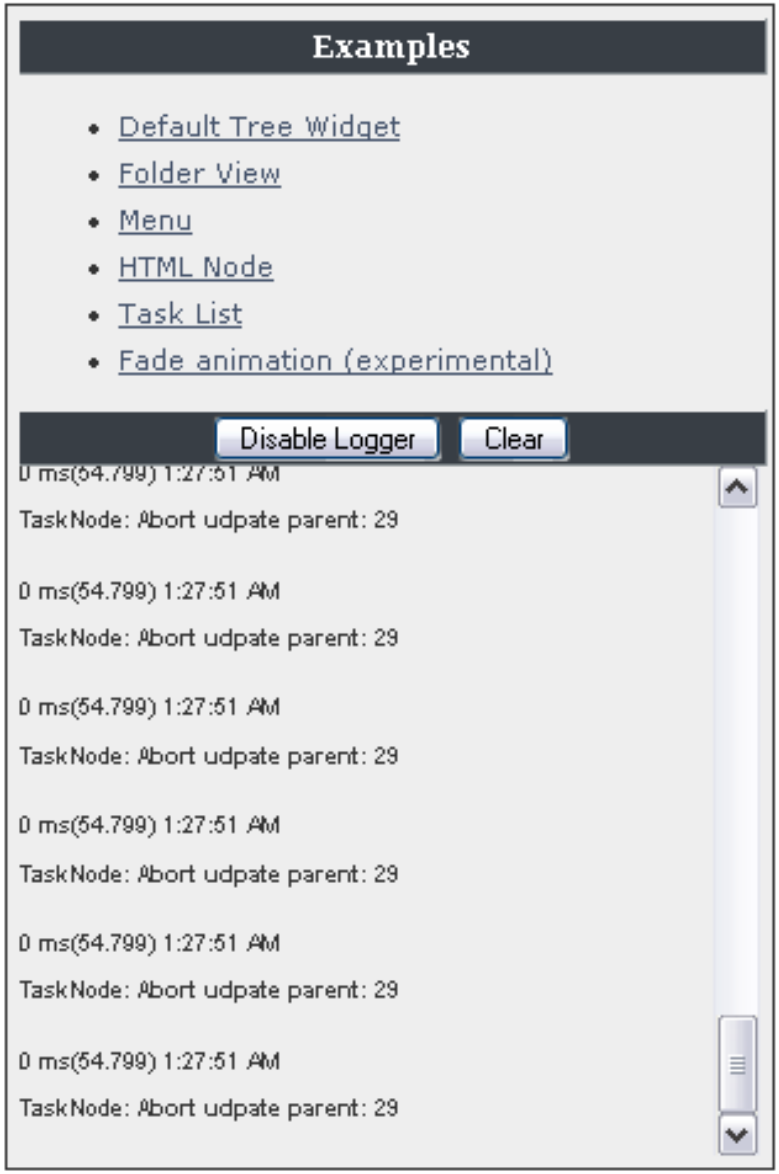


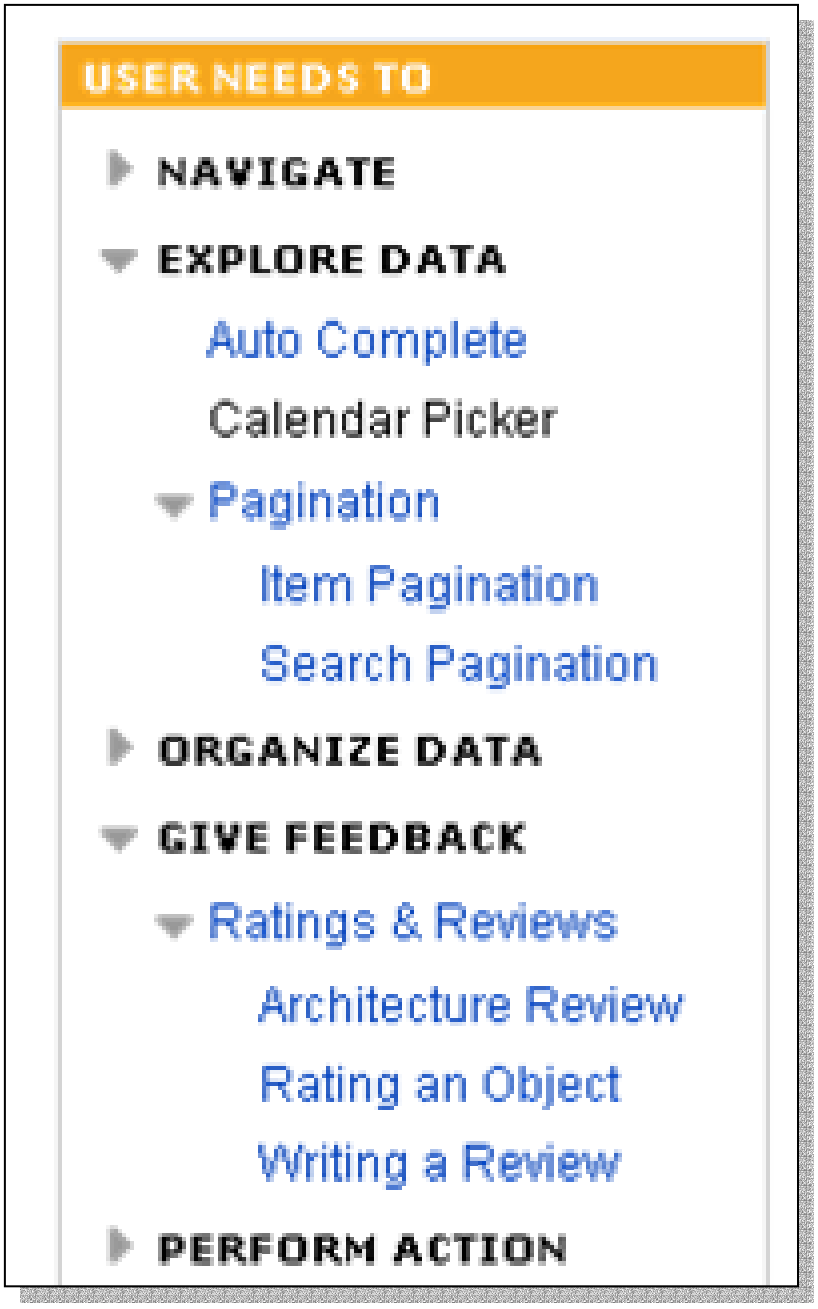
Task List

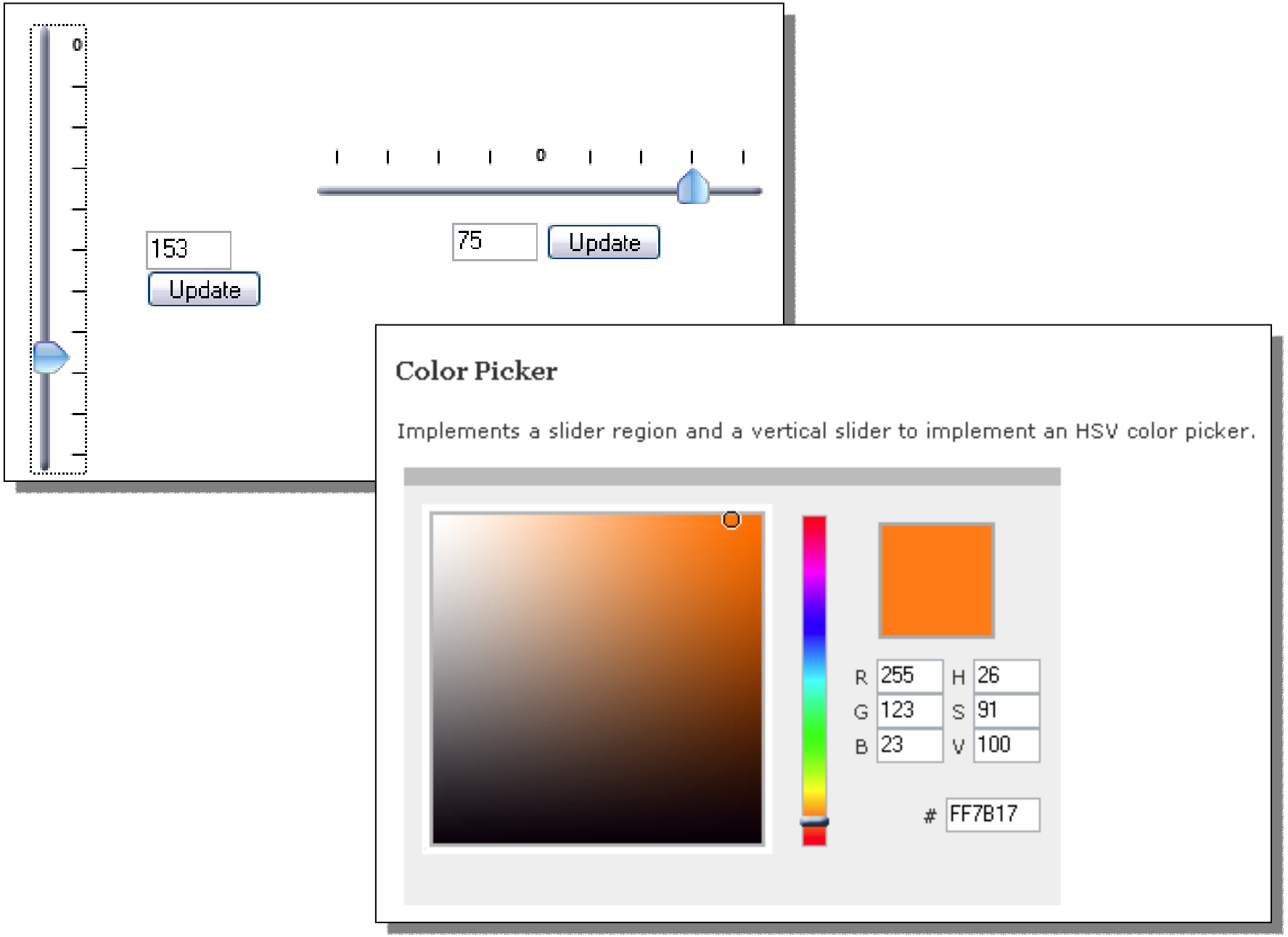
The check boxes have three states: unched
finished), checked (all sub-tasks complete)

Expand all Collapse all

- task-0
  - task-0-0
    - task-0-0-0
    - task-0-0-1
      - task-0-0-1-0
      - task-0-0-1-1
      - task-0-0-1-2
    - task-0-0-2
- task-1
- task-2
- task-3




USER NEEDS TO
NAVIGATE
EXPLORE DATA
Auto Complete
Calendar Picker
Pagination
Item Pagination
Search Pagination
ORGANIZE DATA
GIVE FEEDBACK
Ratings & Reviews
Architecture Review
Rating an Object
Writing a Review
PERFORM ACTION


0
153
Update
0
75
Update
Color Picker
Implements a slider region and a vertical slider to implement an HSV color picker.
R 255
G 123
B 23
H 26
S 91
V 100
FF7B17

YAHOO! JAPAN TRAVEL
Yahoo! JAPAN - ヘルプ
たびゲーター
こんにちは、ゲストさん
ログイン
Yahoo!トラベル 海外航空券予約
おふたりで得
成田空港 免税店&くつろぎ施設
三井住友銀行の 外貨両替
トップ > 海外航空券予約 > アメリカ、カナダ > アメリカ合衆国 > ヒューストン
[PR]癒しのニュージーランド旅行で豪華賞品&ボーナスマイルをゲット！
出発日別最安料金検索 出発日（当月を含む6か月以内）を選択すると、選択された出発日の前後3日間の最安料金を検索できます。
2005年
4月
19日
検索
日付を選びなさい
4月 2006
月 火 水 木 金 土 日
27 28 29 30 31 1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
1 2 3 4 5 6 7
5月 2006
月 火 水 木 金 土 日
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4
5 6 7 8 9 10 11
このリストから条件を指定して絞り込む
・出発地： 指定なし
・料金： 指定なし 円以上 指定なし 円未満
・座席クラス： エコノミー ビジネス
・旅行形態： 往復（帰国便変更不可） 往復
・その他の条件： 直行便 カード決済可能
会、予約可能
検索
条件を詳しく
ヒューストン：1522件 （1～20件目）
※表示されている料金には、選択するフライトや日程によって発生する追加料金、出入国税、空港施設使用料などの料金は含まれておりません。各コースの詳細画面でご確認ください。

JavaScript Documentation

DOM Utility

- Tree View
- Element Index

Classes

YAHOO.util
YAHOO.util.Dom
YAHOO.util.Point
YAHOO.util.Region

Files

Dom.js
Region.js

Class YAHOO.util.Dom

```
Object
   |
   +--YAHOO.util.Dom
```

class **YAHOO.util.Dom**

Quick Links: Constructor Summary | Method Summary | Constructor Details | Method Details

Method Summary [top]

HTMLElement	**get** (el) Returns an HTMLElement reference
Int	**getClientHeight** () Returns the height of the client (viewport).
Int	**getClientWidth** () Returns the width of the client (viewport).
Region	**getRegion** (el) Returns the region position of the given element.
String	**getStyle** (el, <String> property) Normalizes currentStyle and ComputedStyle.
Object	**getX** (el) Gets the current X position of an element based on page coordinates.

---

getRegion

`Region` **`getRegion`** `(el)`

Returns the region position of the given element. The element must be part of the DOM tree to have a region (display:none or elements not appended return false).

Parameters:

`String` - | HTMLElement} Accepts either a string to use as an ID for getting a DOM reference, or an actual DOM reference.

Returns:

A Region instance containing "top, left, bottom, right" member data.

---

getStyle

`String` **`getStyle`** `(el, <String> property)`

Normalizes currentStyle and ComputedStyle.

Parameters:

`property` - The style property whose value is returned.

`String` - | HTMLElement} Accepts either a string to use as an ID for getting a DOM reference, or an actual DOM reference.

Returns:

The current value of the style property.

---

getXY

`Object` **`getXY`** `(el)`

Gets the current position of an element based on page coordinates. Element must be part of the DOM tree to have page coordinates (display:none or elements not appended return false).

Parameters:

`String` - | HTMLElement} Accepts either a string to use as an ID for getting a DOM reference, or an actual DOM reference

JavaScript Documentation

Drag and Drop

- Tree View
- Element Index

Classes

YAHOO.util
YAHOO.util.DD
YAHOO.util.DDProxy
YAHOO.util.DDTarget
YAHOO.util.DragDrop
YAHOO.util.DragDropMgr

Files

DD.js
DDProxy.js
DDTarget.js
DragDrop.js
DragDropMgr.js

Element Index

A B C D E F G I L M O P R S T U V X Y

A

addInvalidHandleType(tagName) - Instance method in class YAHOO.util.DragDrop

addToGroup(sGroup) - Instance method in class YAHOO.util.DragDrop

alignElWithMouse(el, iPageX, iPageY) - Instance method in class YAHOO.util.DD

autoOffset(iPageX, iPageY) - Instance method in class YAHOO.util.DD

B

b4Drag(e) - Instance method in class YAHOO.util.DD

b4MouseDown(e) - Instance method in class YAHOO.util.DD

b4MouseDown(e) - Instance method in class YAHOO.util.DDProxy

borderWidth - Instance field in class YAHOO.util.DDProxy

C

cachePosition(iPageX, iPageY) - Instance method in class YAHOO.util.DD

centerFrame - Instance field in class YAHOO.util.DDProxy

clickPixelThresh - Instance field in class YAHOO.util.DragDropMgr

clickTimeThresh - Instance field in class YAHOO.util.DragDropMgr

```
    /**
     * Sets up the DragDrop object.  Must be called in the constructor of any
     * YAHOO.util.DragDrop subclass
     *
     * @param id the id of the linked element
     * @param {String} sGroup the group of related items
     * element is supposed to be a target only, set to false.
     */
    init: function(id, sGroup) {
        this.initTarget(id, sGroup);
        YAHOO.util.Event.addListener(id, "mousedown",
                                         this.handleMouseDown, this, true);
    },

    /**
     * Initializes Targeting functionality only... the object does not
     * get a mousedown handler.
     *
     * @param id the id of the linked element
     * @param {String} sGroup the group of related items
     * element is supposed to be a target only, set to false.
     */
    initTarget: function(id, sGroup) {

        // create a local reference to the drag and drop manager
        this.DDM = YAHOO.util.DDM;

        // create a logger instance
        this.logger = new ygLogger("DragDrop");

        // set the default padding
        this.padding = [0, 0, 0, 0];
```

1/2!™

Note! Good experiences aren’t plugged in…

… they are crafted by thinking about **people**, **NOT** **technology**

Developers can provide powerful **primitives** and sophisticated **compounds**…

but **designers** create **idioms** and **love**

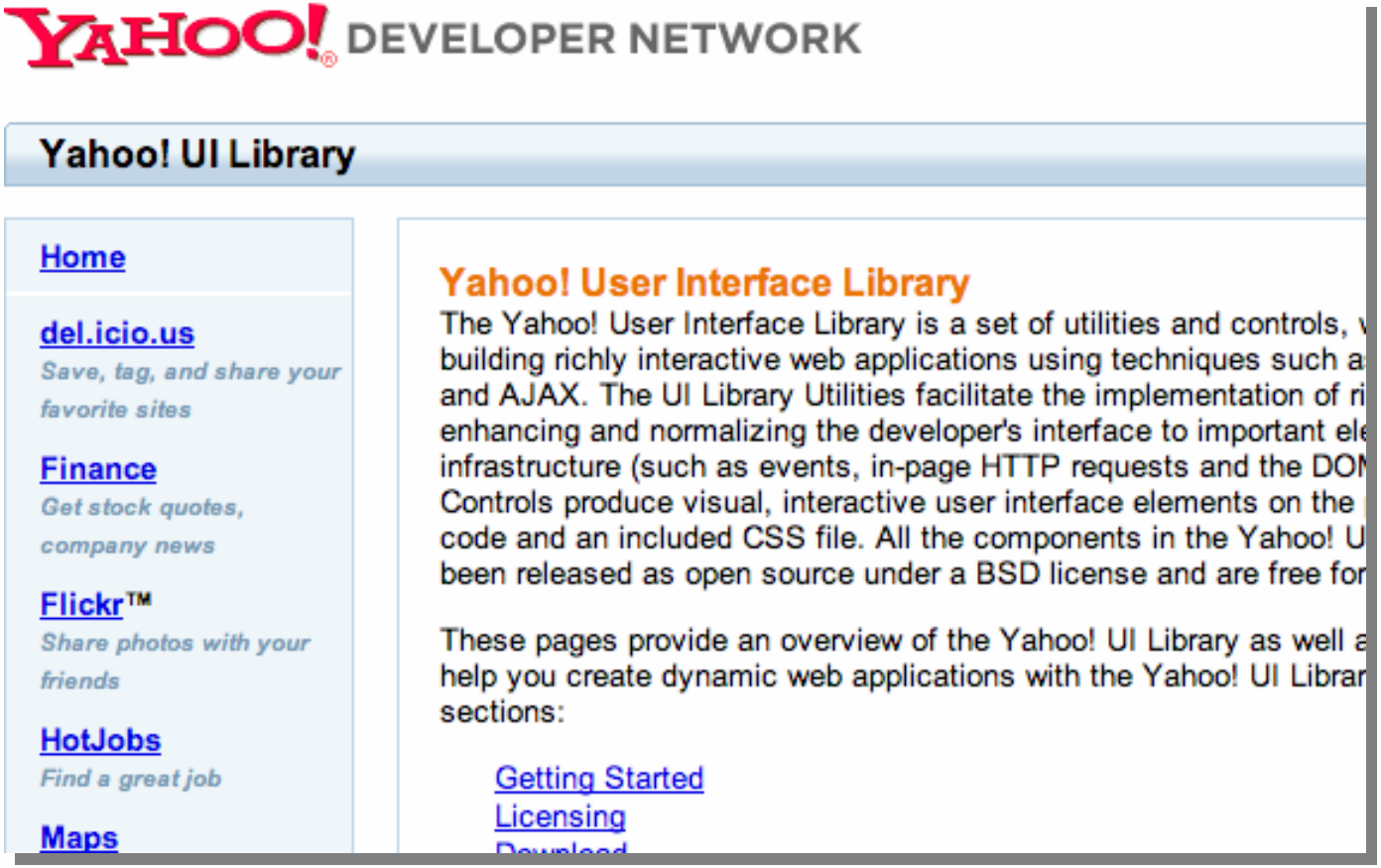
setting it free…

http://www.flickr.com/photos/ck3/98186198/

YUI Library 2/06

Open Source Release

Released on YDN under wide-open BSD license



YUI Library 2/06

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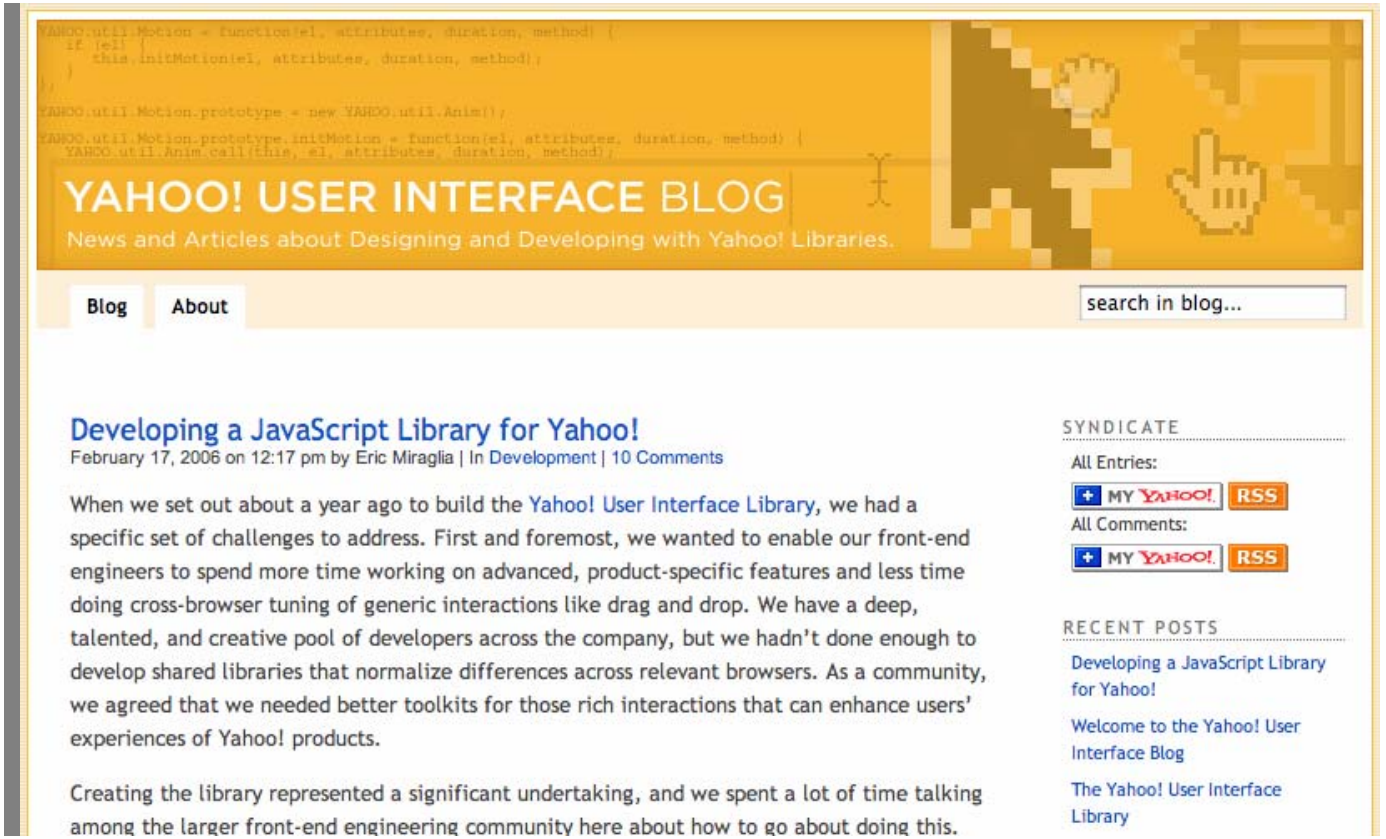


YUI Library 2/06

Open Source Release

Released on YDN under wide-open BSD license

- **Good press from key influencers:** WaSP, DOM Scripting Task Force, O'Reilly Radar, Slashdot, Boing Boing, many more
- **Top entry on delicious,** high profile on Technorati
- **Exponential spike in YDN traffic during release**
- **>36K downloads** of library in first two weeks
- **YDN-javascript group membership: ~1000**

ajaxian
DOM API support group meets Tuesdays
BACKBA
Search
GO
NEWS
PODCASTS
SHOWCASES
RESOURCES
CONFERENCE
JOBS
the ajax experience
May 10-12th, 2006
San Francisco, CA
TOPICS
.NET (24)
Accesibility (14)
Ajax (149)
Articles (63)
Books (3)
Browsers (24)
Builds (3)
Thursday, February 16th, 2006
Yahoo! does Ajax - Javas
libraries and Patterns
Category: Library , Prototype , Dojo , Yahoo!
Over on SitePoint today, in the DHTML & CSS blog section, Kevin
post that talks about some of the Javascript libraries, including the
offerings.
JavaScript is hard, but it could be a lot harder. These days,
tools can actually be most of the work.
Today, the poster children of web application success consis
beefy and interdependent JavaScript files with a light dustin
CSS. With JavaScript codebases easily outweighing markup

Yahoo! Open Sources UIs and Design Patterns

By nat on February 13, 2006

Kudos to Yahoo!, who today released two pieces of goodness into the commons. The first is their UI library, and the second is their Design Patterns Library. The UI Library is a collection of DHTML/Ajax/Javascript (pick your favourite term) controls and widgets. The Design Patterns Library is "intended to provide Web designers prescriptive guidance to help solve common design problems on the Web". I swear I didn't know they were going to do this when I wrote "I'd like to see some HIGs for Ajax interfaces" yesterday, but boy am I impressed! Best of all, Yahoo! gets open source licenses: the UI library is BSD and the Design Pattern library is Creative Commons Attribution 2.5.

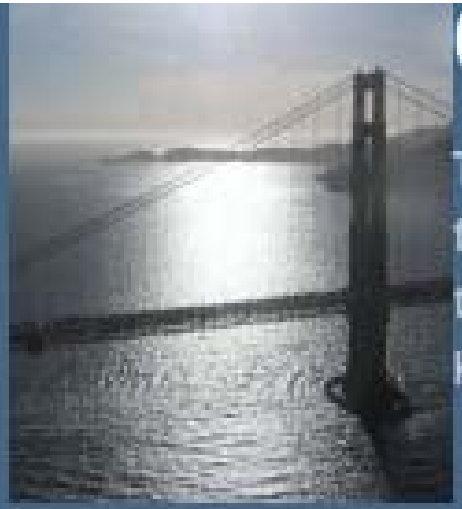
Tags: yahoo ajax ui

Yahoo is the new Google

I feel like I've been saying this a lot lately, but while Google seems to be faltering at nearly every step, Yahoo is doing lots of little things that I think will have a big reward soon. Such as releasing their UI Library and their Design Pattern LIbrary. Obviously this isn't something you are going to b interested in unless you are a web developer, but if you are it's a pretty exciting release. The UI Library includes your standard animation effects, AJAX calls, and also a really polished calendar that took me about 20 seconds to incorporate into a web app I'm working on. Everything has been released with a BSD license, which means you can use it for anything anywhere.

Technorati Tags: web2.0 ajax yahoo google

Posted Monday, February 13, 2006



Chris' Insytes

This is simply a place where I can share my Insytes about new trends from them. I see the world from a very holistic perspective, sitting at technology and communications. Here you can also learn with me as w Knowledge Economy really looks like as it emerges before our eyes.

TUESDAY, FEBRUARY 14, 2006

Yahoo! 'gets' Web 2.0 and then some...

In another significant move pointing to the deep smarts resident at Yahoo!, Yahoo! has opened up its Design Patterns and User Interface Libraries. Whenever Nate has his head down for 14 hours each day over several weeks, we know something cool is going to come from it, but this is even bigger than I could have imagined (and I have a pretty big imagination).

So why is this such a big deal? In simple terms, it means you can now

eBreakStuff

now with 80% more white

evelopment and consulting for the web

:e

:

:

shelf

acclaimed by many and now
veral thousand people, is a
to keep up with news and
usability, development,
l the Web 2.0.

be to our blog

Yahoo! releases UI and Design Patterns

Posted by Fred, February 14, 9 comments

Yahoo! keeps showing the world how much they get web 2.0. This time, they've done the unexpected and opened the sources to the UI library (that includes visual effects, connection handlers - think ajax -, dom handlers, and drag-and-drop controls) under a BSD license. Also, they're now sharing their design patterns under a Creative Commons license.

- Yahoo! UI library
- Yahoo! Design Patterns

This is clearly celebration time for the online development community and open source movements. Big players embracing the need for open standards - thus stimulating innovation instead of re-invention - are definitely something we need more of. Excellent! [via O'Reilly Radar]

YAHOO! DEVELOPERS: SETTING A STANDARD FOR THE NEW PROFESSIONALISM

In an article published Monday, February 13, 2006, **Yahoo!** Senior Web Devel
outlines the Yahoo! concept of **Graded Browser Support**.

The approach is a work of art so beautiful and sensible it literally made me
ongoing discussion regarding a new professionalism for Web desig
clear that the approach that Koechley outlines is not only logical and simple, b
practical.

One of the most powerful aspects of the document is it approaches the entir
support for sites from an enlightened point of view. Instead of calling out any g
problematic and focusing on how to manage it, Koechley points to the nature o
encouraging us to work within that context:

> "Expecting two users using different browser software to have an identical

In the Design Pattern library, they've outlined several sol
including breadcrumbing, object pagination, and autocom
practices with lots of information on why they've impleme
haven't even had a chance to look through all of these ye
accessibility issues and should be an incredibly useful set
to implement something that they've already researched.

Yahoo! makes me smile. They've even got a companion t

[via O'Reilly Radar]

This entry was posted on Tuesday, February 14th, 2006 at 2:04 am and is filed
responses to this entry through the RSS 2.0 feed. You can leave a response, or t

2006-02-24 Yahoo! UI Library でお勉強

Ajaxの主役オブジェクトのXMLHttpRequestを生成するときに
Yahoo! UI Libraryのconnection.jsの手法はなるほどという感じ
createXhrObjectというfunction内の話ですが、まずXMLHttpl

```
http = new XMLHttpRequest();
```

失敗してcatchブロックに入ると、ActiveXObjectをnewして頑張

```
http = new ActiveXObject(this._msxml_progid[i]);
obj = { conn:http, tId:transactionId };
```

Chris Wolfolk's Blog

Chris's official blog, replacement for Nerd Fed

« Mp3 player problems Don't control my windo

Yahoo are pretty nice guys

Recently I was in a conversation where someone said that Google was as the non-evil alternative to Yahoo. I have never considered this the I have always thought (and thought many others shared the same that Yahoo is the non-evil alternative to MSN.

Graded Browser Support

- 3 Grades of Browser Support
  - A-grade support (advanced support)
  - C-grade support (core support)
  - X-grade support (the X-Factor)

- http://developer.yahoo.com/yui/articles/gbs/gbs.html

	Win 98	Win 2000	Win XP	Mac 10.0	Mac 10.2	Mac 10.3	Mac 10.3.x	Mac 10.4
IE 7.0	n/a	n/a	A-grade	n/a	n/a	n/a	n/a	n/a
IE 6.0	A-grade	A-grade	A-grade	n/a	n/a	n/a	n/a	n/a
IE 5.5	A-grade	A-grade	n/a	n/a	n/a	n/a	n/a	n/a
IE 5.0	C-grade	C-grade	n/a	C-grade	C-grade	C-grade	C-grade	C-grade
Netscape 8.0	X-grade	X-grade	A-grade	n/a	n/a	n/a	n/a	n/a
Firefox 1.5	A-grade	A-grade	A-grade	A-grade	A-grade	A-grade	A-grade	A-grade
Firefox 1.0.7	A-grade	A-grade	A-grade	A-grade	A-grade	A-grade	A-grade	A-grade
Mozilla 1.7.12	X-grade	X-grade	A-grade	X-grade	X-grade	X-grade	X-grade	X-grade
Opera 8.5	X-grade	X-grade	A-grade	C-grade	C-grade	C-grade	X-grade	X-grade
Safari 1.0	n/a	n/a	n/a	X-grade	n/a	n/a	n/a	n/a
Safari 1.1	n/a	n/a	n/a	X-grade	X-grade	n/a	n/a	n/a
Safari 1.2	n/a	n/a	n/a	X-grade	X-grade	X-grade	n/a	n/a
Safari 1.3	n/a	n/a	n/a	n/a	n/a	X-grade	A-grade	n/a
Safari 2.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	A-grade

http://developer.yahoo.com/yui/articles/gbs/gbs.html

The Seasons
Are Changing