jQuery and YUI : A Comparison

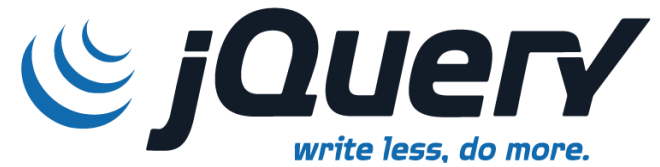# jQuery Overview

- Low Level Utility Library
- Aimed at normalizing cross browser issues
- Events, DOM Manipulation, Selection, Ajax, Animation
- Minimum set of tools to get the job done
- Pluggable with large community ecosystem
- Extremely terse language syntax
- Monolithic architecture
- Lacks real UI widgets

Terse Syntax

$("#id") .hide() .width(300) .fadeIn()

Pluggable


```
/*  jQuery Zebra Stripping Plugin */

jQuery.fn.zebra = function(odd, even) {

    return this.find("tr:odd").css("background-color", odd)

        .end().find("tr:even").css("background-color", even);

}  //or $.fn.extend({ zebra : function(){...} })


$("table").zebra("#fff", "#eee");
```

jQueryUI Overview

- Builds UI elements on top of jQuery core
- CSS Framework to enable theming
- Fully accessible
- Supports Progressive Enhancement
- Limited set of widgets
- Infrequent release schedule due to open source nature
- Inconsistent API with little to no formal architecture

Widget Stack

USER INTERFACE

Interactions

Complex behaviors like drag
and drop, resizing, selection
and sorting.

Draggable
Droppable
Resizable
Selectable
Sortable

Widgets

Full-featured UI controls —
each has a range of options
and is fully themeable.
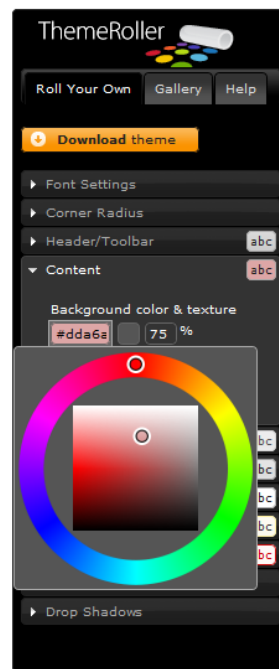
Accordion
Datepicker
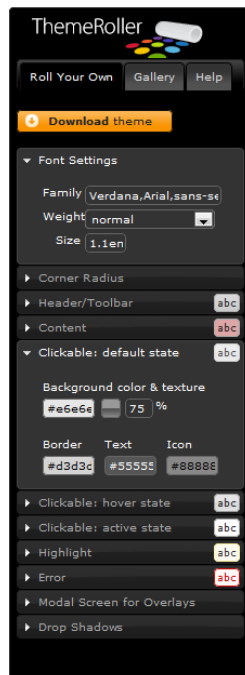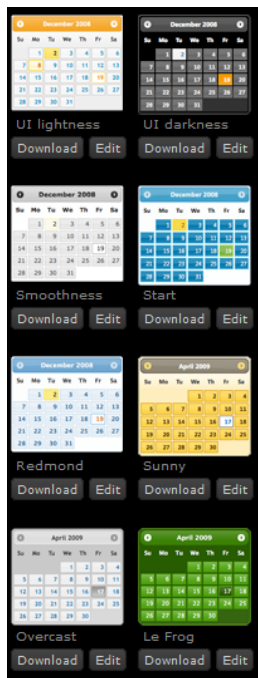Dialog
Progressbar
Slider
Tabs

Effects

Animated transitions and
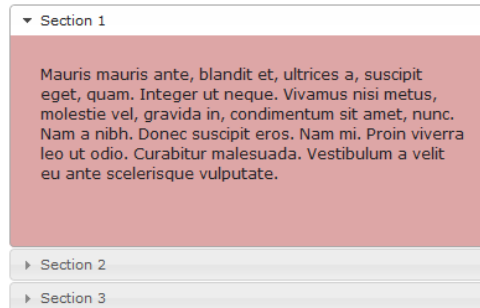easing for rich interactions.

Effect Methods

Effect, Show, Hide, Toggle, Color
animation, Add class, Remove class,
Toggle class, Switch class

Themeroller

YUI Overview
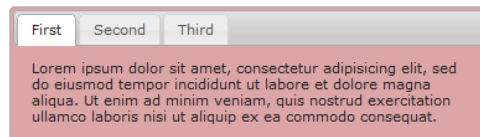
- UI Framework rather than toolset or library
- Two different versions 2 & 3
- Intricate and well documented architecture
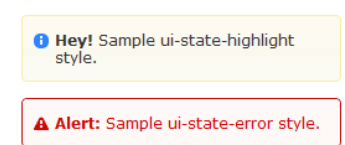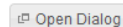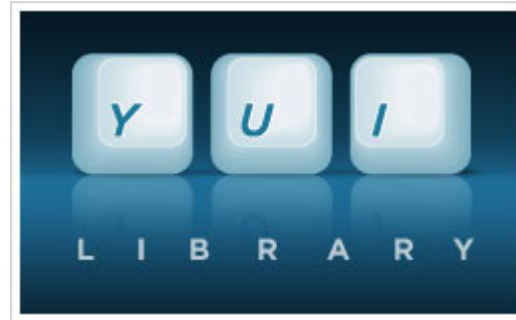- Corporate backed Open Source project
- Driven by Douglas Crockford
- Verbose syntax in v2
- Community of developers rather than "Script Kiddies"

YUI2 and YUI3

YUI 2 — ROBUST AND PROVEN

- Launched February 2006
- Used on thousands of sites around the Web — including Yahoo!
- One of the most popular, best-documented JavaScript/CSS libraries available
- Comprehensive suite of utilities and widgets

YUI 3 — YUI EVOLVED

- Launched September 2009
- YUI's next-generation framework — used on the new Yahoo! home page
- Rebuilt from the ground up to be incredibly fast, powerful, and secure
- Full suite of utilities; widgets coming in 2010
- Gallery of community-contributed components

YUI 2 Feature Set
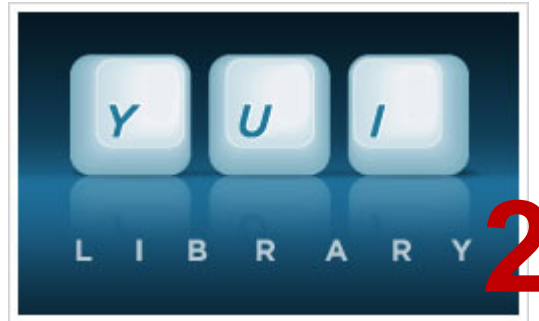
Using YUI 2:
- FAQ
- Getting Started
- Licensing
- Support & Community
- Filing Bugs & Feature Requests

Searchable API Documentation:
- Browse and search the complete YUI API.

YUI 2 Developer Tools:
- Logger Control
- Profiler (client-side, cross-browser profiling)
- ProfilerViewer Control
- YUI Test Utility

YUI 2 CSS Tools:
- CSS Reset (neutralizes browser CSS styles)
- CSS Base (applies consistent style foundation for common elements)
- CSS Fonts (foundation for typography and font-sizing)
- CSS Grids (more than 1,000 CSS-driven wireframes in a 4KB file)

UI 2 Core:
- The YAHOO Global Object (base requirement for all YUI components)
- DOM Collection (convenience methods for DOM interactions)
- Event Utility (event normalization and custom events)

UI 2 Utilities:
- Animation Utility
- Browser History Manager
- Connection Manager (for XHR/Ajax)
- Cookie Utility
- DataSource Utility
- Drag and Drop Utility
- Element Utility
- Get Utility (dynamic script/css loading)
- ImageLoader Utility
- JSON Utility
- Resize Utility
- Selector Utility
- Storage Utility BETA
- SWFStore Utility BETA
- SWF Utility BETA
- StyleSheet Utility BETA
- The YUI Loader Utility

YUI 2 Widgets:
- AutoComplete
- Button
- Calendar
- Carousel BETA
- Charts BETA
- Color Picker
- Container (including Module, Overlay, Panel, Tooltip, Dialog, SimpleDialog)
- DataTable
- ImageCropper BETA
- Layout Manager
- Menu
- Paginator
- Progress Bar BETA
- Rich Text Editor
- Slider
- TabView
- TreeView
- Uploader BETA

YUI 3 Feature Set

3
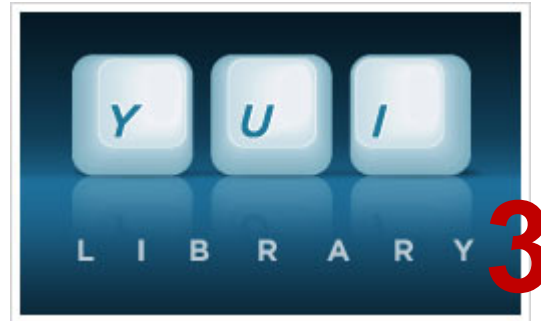
ON THIS PAGE

- Getting Started
- Licensing
- Support & Community
- Filing Bugs & Feature Requests

DOCUMENTATION

- API Docs
- Functional Examples
- Dependency Configurator

DEVELOPER TOOLS

- Console BETA
- Profiler
- Test

YUI 3 GALLERY

Visit the YUI 3 Gallery for more YUI 3-based components contributed by the YUI community.

CORE

- YUI Global Object
- Node
- Event

UTILITIES

- Animation
- AsyncQueue
- Cache
- Cookie
- DataSchema BETA
- DataSource BETA
- DataType BETA
- Drag & Drop (DD)
- Get
- History
- ImageLoader
- IO
- JSON
- StyleSheet

COMPONENT INFRASTRUCTURE

- Attribute
- Base
- Plugin BETA
- Widget BETA

WIDGETS

- Overlay BETA
- Slider BETA

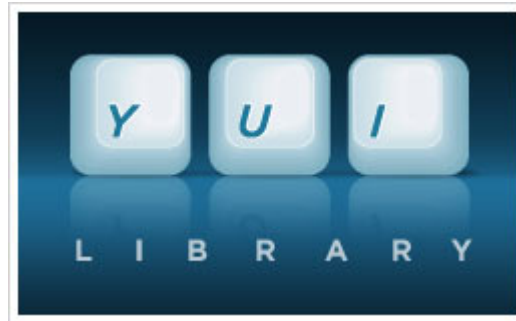**PLUGINS**

- FocusManager Node Plugin BETA
- MenuNav Node Plugin BETA
- Console Filters Plugin BETA

CSS RESOURCES

- CSS Reset
- CSS Base
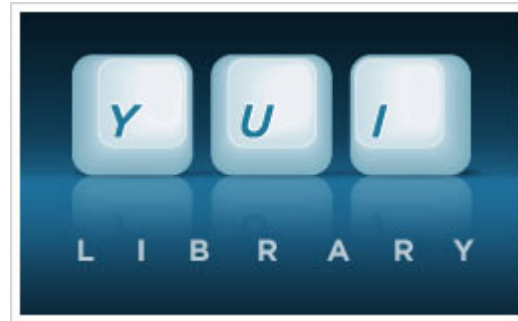- CSS Fonts

YUI 2/3 Code Comparison


```
var oElement = document.getElementById("elementid");
YAHOO.util.Event.addListener(oElement, "click", fnCallback);
```
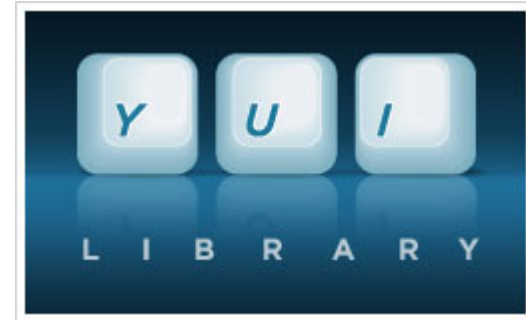
2

```
Y.one("elementid").on("click", fnCallback);
```

3

Dependency Resolution


```
YUI().use("node", function(Y) {
    Y.one("#message").setContent("Hello, World!");
});
```

Decisions... Decisions... Decisions...

jQuery or YUI Library

- Web Site or Web App?
- How rich does it need to be?
- Best of two worlds?
  - YUI2 ➜ YUI3 (trickle migration)
  - jQuery + YUI2
- The future?
  - jQuery 1.4 vs. YUI 3

Questions?