



# How the Text was Won

## Shine: Rich Text Editor

**James Long**

May 6th, 2008



# Overview

---

- Core blog tool used by both Shine's Editors and Users
- Base: YUI's Rich Text Editor 2.4 (now 2.5)
  - <http://developer.yahoo.com/yui/editor/>
- Worked with Sr. YUI Engineer Dav Glass throughout the project
  - Bugs
  - Feature Requests
  - Code Reviews



# Overview Cont.

Before:

The screenshot shows a rich text editor interface. The toolbar is titled "Text Editing Tools" and includes sections for "Font Name and Size" (Arial, 13), "Font Style" (Bold, Italic, Underline, Strikethrough, Superscript, Subscript), "Alignment" (Left, Center, Right, Justify), "Paragraph Style" (Normal), "Indenting and Lists" (Bulleted, Numbered, Indent Left, Indent Right), and "Insert Item" (Link, Image, Video). The content area contains seven lines of text: "This is some more test text.", "This is some more test text.", "This is some more test text.", "This is some more test text.", "This is some more test text.", "This is some more test text.", and "This is some more test text.". The word "more" in the third line is highlighted in blue. The status bar at the bottom shows "body".

After:

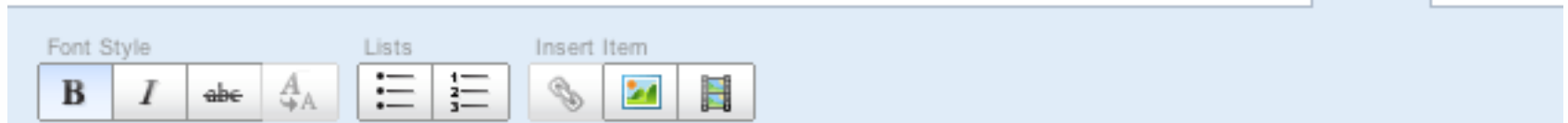
The screenshot shows the same rich text editor interface after a change. The toolbar is now titled "\* Content" and has tabs for "Visual" and "HTML". The "Visual" tab is active, showing a simplified toolbar with "Font Style" (Bold, Italic, abc, Aa), "Lists" (Bulleted, Numbered), and "Insert Item" (Link, Image, Video). The content area now contains a single line of text: "The Good, The Bad, and The PHUGC|". The status bar at the bottom shows "body".



# Custom Toolbar

\* Content

Visual HTML



- Limited Buttons (less is more)
- Addition of Several
  - Strikethrough
  - Media
  - Visual/HTML Tabs
- Easy to modify the base toolbar configuration



## Custom Toolbar Cont.

- To add a button to the toolbar just modify the toolbar config:
  - Add the following to a button group:
    - { type: 'push', label: 'Strike Through', value: 'strikethrough' }
  - Detecting Event
    - myEditor.toolbar.on ( 'insertimageClick', function() {});



# Rich Text/HTML mode

- Based on YUI RTE Code Editor Example:
  - [http://developer.yahoo.com/yui/examples/editor/code\\_editor.html](http://developer.yahoo.com/yui/examples/editor/code_editor.html)
- HTML mode disables the toolbar, saves the iframe's body innerHTML to the textarea, moves the iframe off the screen and displays the textarea in place of the iframe
- Visual mode does the opposite



# Window Changes: General


- Usability concerns from UED
  - Close button not intuitive
    - Replaced with a Done button
    - `myEditor.closeWindow();`
  - General Styling and Font
  - Many of the windows options were not explained well
    - Converted image window to a step process
- How do you make these changes?
  - Manipulating the DOM after the window renders





# Image Window


Before:




This is some more test text.  
This is some more test text.

**Image Options**

Image Url:

Size:  x  Text Flow: 

Padding:  Border:  

Description:

Link URL:

Open in a new window.

After:



**Image Options**

\* We accept *jpg* and *gif* images with a **5MB** max file upload size

**Add an image from your computer**

Step 1. Click Browse to select an image on your computer


File:

Step 2. And then Upload it

**Or Add an image from the web**

Image Url:

**Edit Your Image**

Size:  x  Text Flow: 

[More edit options »](#)

Description:

**Want to add a link to your image?**

Link URL:

Open in a new window.



# Image Window Cont.

- Removed Display image inline button, border and padding options (display:none)
- Moved link and description (photo credit) options into an advanced menu
- Dom Manipulation after window render
  - Insert content before and after existing elements
- Image Uploader based on Dennis Muhlestein's example:
  - <http://allmybrain.com/2007/10/16/an-image-upload-extension-for-yui-rich-text-editor/>
  - Added error handling, cancel upload functionality, and visual enhancements
  - Checks image size and inserts best option



# Auto Image Resizing

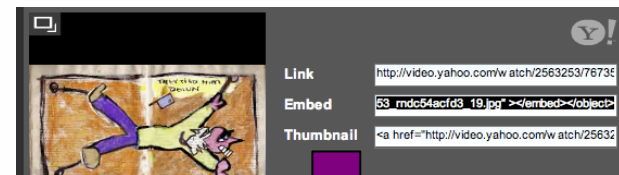
- What happens if a user inserts a image via image url or in html mode and that image is massive?
  - it overfills the right column
- Terrible user experience huh? Solution:
  - A function that resizes all images after you insert an image, or saves the RTE window down to under 575px.
  - The function keeps the aspect ratio and writes in the height and width attributes into the image
- Needed Photo dimensions for photo credit



# Media Window

- Concept: Provide an easy way for a user to add video into your blog post without going through the HTML view and allow the users to preview on the fly.

video.yahoo.com



Edit Media

Want to add a video (or a poll) to your blog? If it is hosted on another site, it will be easy to add to your blog. Just paste the html **EMBED** tag into the box below.

```
value="id=7673512&vid=2563253/7673512/2563253_rndc54ecfd3_19.jpg" /></embed>
src="http://d.yimg.com/static/video/2563253/7673512/2563253_rndc54ecfd3_19.jpg"
type="application/x-shockwave-flash"
width="512" height="323"
allowFullScreen="true"
flashVars="id=7673512&vid=2563253/7673512/2563253_rndc54ecfd3_19.jpg"
/></embed></object>
```



**\*Yahoo! Video Users:**

You can find this tag in the **Add to Site box**, at the bottom of the video

**\*Bix Users:**

You can find the embed tag after clicking on the **put on website** link under the Vote For Section in the embed box

**\*YouTube Users:**

You can find the **embed tag** under the About this Video Section in the embed box.

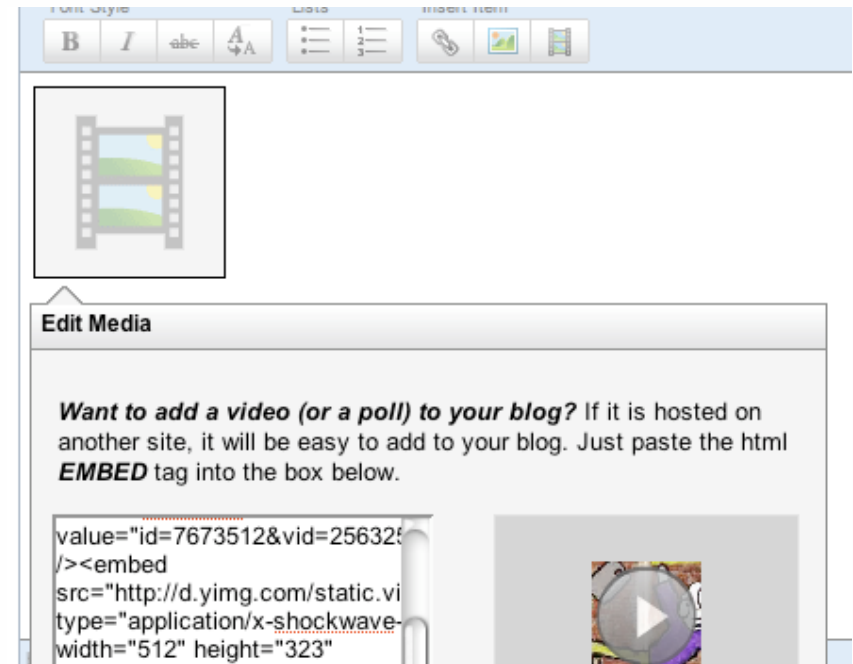
Preview

Done



# Media Window Cont.

- Proxy Image since you can display flash easily in design mode
  - Span with a class
    - Adds background and does a display:none on child objects
  - Contains embed content (display:none in rte iframe)





# Media Window Cont.

- Creating a new window: `win = new YAHOO.widget.EditorWindow('insertmedia', {});`
- Provide user's preview in the window
  - Difficulties in IE with innerHTML of an embed within a object tag
- Error handling
  - Try Catch based around a `getElementsByTagName['embed'][0]`
- Double clicking on the proxy reopens the menu and inserts embedded content held within the span proxy
- In preview the styling for the span is removed, displaying the child embed



# RTE Window Resizing

- As you add content the window grows, now built into the library.
  - Was based on Dav Glass's example:
  - <http://blog.davglass.com/files/yui/editor27/>
- onNodeChange or onKeyPress fire resize function
- The resize function detects the window's scroll height and sets the iframe's height based on that.

- Accessing the body of the RTE Iframe:
  - `var doc = myEditor._getDoc(), body = doc.body;`
- Saving the RTE Iframe back to the textarea:
  - `myEditor.saveHTML();`
- Useful Custom Events
  - 'toolbarLoaded'
  - 'afterNodeChange'
  - 'afterRender'
  - 'editorKeyPress'
  - 'editorDoubleClick'
- Adding CSS to the RTE Iframe
  - Overwrite the `extracss` object under the RTE's config
- Overwriting library functions
  - `YAHOO.widget.SimpleEditor.prototype.filter_safari = function(html) {`



# Conclusion

---

- YUI Rich Text Editor Very Easy is very easy to modify and to bend to your consumer's need.
- Questions?
- Contact: