Introduction to Bricolage

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World Health Organization

- 4,000 documents
- Over 100 departments & users
- Published in English, Spanish, and French
- http://www.who.int/
Mac Publishing

- 30,000+ documents
- MacCentral updated continually
- www.macworld.com
- www.maccentral.com

Microsoft drops development of Internet Explorer for Mac

Microsoft on Friday officially dropped development of Internet Explorer for Macintosh. The company's Macintosh Business Unit (MBU) will release an update for the OS X version of the browser on Monday that will have security and performance enhancements, but no new features. Microsoft said it would continue to support Internet Explorer 5 for the Mac for the foreseeable future, but development of the browser has been discontinued. Any future updates to the browser will only contain maintenance or security fixes, no new features. Read the full story...

Friday, June 13, 2003
4:25 pm Microsoft drops development of Internet Explorer for Mac
2:14 pm Apple releases security update for Mac OS X
2:40 pm Multiple Picture Viewer introduced by Monkeybread
1:30 pm Australian resellers unhappy with Apple online store

Quark's flagship desktop layout application arriving

QuarkXPress 6 for Mac OS X to ship next week
Quark Inc. announced Tuesday that it will ship QuarkXPress for Mac OS X next week. QuarkXPress 6 introduces new features like project files, collections of layouts that can vary in media type, size and orientation; style sheets, colors, hyphenation settings, lists and other properties can be shared between layouts. Read the full story... July 2008 issue

David Blitzer provides an in-depth look at a prerelease version of QuarkXPress 6.0. The major upgrade offers significant new features, including Layout Spaces, multiple undo, and the Synchronize Text palette. XPress users will be able to breath a sigh of relief and enjoy the fact that they can ditch Classic mode at last and enjoy the benefits of OS X... June 2003 issue

Quark Enters the Land of OS X

QuarkXPress 6, the leading desktop publishing application for Macs, is now available for Mac OS X 10.2 Jaguar. The new version of QuarkXPress includes a number of new features, including support for project files and collections of layouts that can vary in size, orientation and media type. QuarkXPress 6 also introduces new features like style sheets, colors, hyphenation settings, lists and other properties that can be shared between layouts. Read the full story... July 2008 issue

www.maccentral.com
www.macworld.com
The Register

- 45,000+ Documents
- Millions of readers
- 30 new stories daily
- August 2003 launch
- www.theregister.co.uk
- www.theregister.com
Entertainment Tonight

- 15,000+ Stories
- 70 new stories daily
- 60-70 new images daily
- 50 new videos weekly
- August 2003 launch
- www.etonline.com
The Content Problem

- Lots of contributors
- Workflow not reflected in software
- Volumes of decentralized content
- Inconsistent data
- Inconsistent formatting
- Need to output to multiple formats
- Multiple destination servers
Solution: Bricolage

- Centralized document library
- Document design and management
- Document versioning and locking
- Browser!based interface
- Customizable workflow with permissions
- Multiple output channels
- Document distribution
- SOAP interface
Architecture

- Enterprise! class open! source CMS
- Written in Perl with a Mason! powered UI
- Perl! powered templating architectures
- Runs on any modern Unix system
- Runs on Apache 1.3.27
- Supports SSL
- PostgreSQL back! end
- Portable to other databases  patches welcome
An Introduction

- Document analysis
- Document type definition
- Templating
- Document editing
Document Types

• Bricolage core technology
• Two kinds of documents: “Stories” & “Media”
• Documents defined by “Elements”
• Elements are hierarchically organized content containers
• Elements can contain Subelements and Fields
• Fields displayed as different HTML form fields
Document Analysis

- Analyze existing documents
- Break them down into component parts
  - Subelements
  - Fields
- Model the structure
The Princess Bride

A look at S. Morgenstern's classic tale of true love and high adventure.

By David Wheeler, Billy Crystal, and William Goldman

I don't know about elsewhere in the world but "The Princess Bride" was barely promoted when it opened in Australia. To my mind, that was a crime. Prepare to die. It saddens me every time I meet someone who is a normal cinemaphile but has never heard of this film.

Some might see it as a satire on fairy tales but I see the film more as a warship. This is the way all fairy tales should be. To quote Peter Falk at the beginning of the film: "(It has) fencing, fighting, torture, revenge, giants, monsters, chases, escapes, true love, miracles..." What more could you want from a movie?

As you Wish

The story is a simple one. Two lovers, Wesley and Buttercup, separated for five years, (one presumed dead), are reunited despite the opposition of evil forces. I don't even exercise. No, it's not the story that makes this movie great, it is the script, acting and direction.

Outside of some of Monty Python's films, The Princess Bride would have to be the most quotable. In fact there is a subculture of fans of this film who communicate almost solely through the use of quotes. Their recognition signal is not a handshake but a password. You just have to say 'inconceivable' in the right way, and you're in.

"My name is Inigo Montoya. You killed my father. Prepare to die."
<table>
<thead>
<tr>
<th>Title</th>
<th>The Princess Bride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Teaser</td>
<td>A look at S. Morgenstern's classic tale of true love and high adventure.</td>
</tr>
<tr>
<td>Byline</td>
<td>By David Wheeler, Billy Crystal, and William Goldman</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The Princess Bride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author: William Goldman</td>
</tr>
<tr>
<td>Publisher: Ballantine</td>
</tr>
<tr>
<td>Year: 1973</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The Princess Bride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director: Rob Reiner</td>
</tr>
<tr>
<td>Stars: Cary Elwes, Robin Wright, Billy Crystal, Andre the Giant</td>
</tr>
<tr>
<td>Year: 1988</td>
</tr>
</tbody>
</table>
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Impact on Australia

I don't know about elsewhere in the world but "The Princess Bride" was barely promoted when it opened in Australia. To my mind, that was a crime. Prepare to cry. It saddens me every time I meet someone who is a normal cinemophile but has never heard of this film. I guess considering that it has no big name stars, (at least not in major roles), this situation may be understandable.

The story is a simple one. Two lovers, Wesley and Buttercup, separated for five years, (one presumed dead), are reunited despite the opposition of evil forces. I don't even exercise No, it's not the story that makes this movie great, it is the script, acting and direction. The characters are ALL eccentric and they have been given wonderfully witty dialogue. Superbly choreographed action sequences and a sense of fun also help to round out the film. Watch out for the best fencing scene in the history of film.

For the maximum fun, this film should be watched in the company of a group of friends. And it doesn't matter what age spread the group has, because it will be appreciated by all. So go ahead and schedule that movie night you have been putting off.

Once More, With Feeling

Some might see it as a satire on fairy tales but I see the film more as worship. This is the way all fairy tales should be. To quote Peter Falk at the beginning of the film, "(it has) fencing, fighting, torture, revenge, giants, monsters, chases, escapes, true love, miracles..." What more could you want from a movie?

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Document Type Definition

- **Review** (Related Media)
  - **Short Teaser**
  - **Byline**
    - Header
    - Paragraph
    - Next Text
    - Previous Text
  - **Book Profile**
    - Title
    - Author
    - Publisher
    - Publish Date
  - **Related Media**
    - Caption
    - Position
  - **Movie Profile**
    - Title
    - Director
    - Star
    - Studio
    - Release Date
  - **Pull Quote**
    - Paragraph

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Element Demo

Element Profile

Admin | Profile | Element | "Review"

1 PROPERTIES

Name: Review

Description: A book or movie review element.

Burner: Mason

Type: Document
Templating

- Based on Perl templating systems
- Current templating systems
  - Mason
  - HTML::Template
- Promised templating systems
  - Template Toolkit
  - XSLT
- Contribute one!
Template Fundamentals

- Templates are pure Mason or HTML::Template
- Contain three important global objects
  - $story
  - $burner
  - $element
$story Global

- Bricolage story object
- Access primary story properties
  - Title
  - Description
  - URI
  - Keywords
  - Contributors
$story Example

```html
<html>
<head>
  <title>% $story->get_title %</title>
  <meta name="keywords" content="% join ', ', map { $_->get_name } $story->get_keywords %" />
</head>
<body>
  <h1>% $story->get_title %</h1>
  <p>URL: % $story->get_primary_uri %</p>
</body>
</html>
```
$burner Global

- Manages templating architecture and output
- Use similarly to Mason’s $m to output metadata
- Trigger element output
- Access relevant objects and data
  - Output Channel
  - Category
  - Page file names
<body>
% # Output top navigation hints.
% my $category = $burner-&gt;get_cat;
   <h3>Category: <%= $category-&gt;get_name %></h3>
   <h4>Path:  <%= $category-&gt;get_uri %></h4>

% # Execute next template.
% $burner-&gt;chain_next;

<%perl%
   if ($burner-&gt;get_oc-&gt;get_name ne 'Printer Friendly'
       and my $next = $burner-&gt;next_page_file) {
      # Output a link to the next page.
      $m-&gt;print(qq{
                     <p class="more"><a href="$next">
                        qq{Next Page &gt;&gt;}</a></p>
                   });
   }
</%perl%
</body>
$element Global

- Element for current template
- Most important templating object
- Contains content data
  - Subelements
  - Data elements Fields
  - Element order
  - Related media
  - Related story
$element Example

```perl
<body>
<%perl%>
  # Handle related media.
  if (my $media = $element->get_related_media) {
    my $uri = $media->get_uri;
    $m->print(qq{  <img src="$uri"/>
});
  }

  # Output all subelements.
  foreach my $e ($element->get_elements) {
    if ($e->has_name('paragraph')) {
      $m->print('  <p>', $e->get_data, '</p>
');
    } elsif ($e->has_name('header')) {
      $m->print('  <h3>', $e->get_data, '</h3>
');
    } else {
      $burner->display_element($e);
    }
  }

  # Handle related story.
  if (my $relstory = $element->get_related_story) {
    my $uri = $relstory->get_primary_uri;
    my $title = $relstory->get_title;
    $m->print(qq{  <h4>See also <i><a href="$uri">$title</a></i></h4>
});
  }
</%perl%
</body>
```
Three Template Types

- Category Templates
- Element Templates
- Utility Templates
Category Templates

• Wrap execution of element templates
• Automatically executed when element templates executed
• Similar to Mason’s “autohandlers”
• Cascading execution down the category path
Category Template Example

<html>
<head>
  <title>%% $story->get_title %></title>
</head>
<body>
  <h1>%% $story->get_title %></h1>
  % # Execute next template.
  % $burner->chain_next;
  <p>Copyright © Foobar Enterprises, Ltd.</p>
</body>
</html>
Category Template
Execution

For “Review” story in /reviews/books category:

![Diagram showing the execution flow for a "Review" story in the /reviews/books category.](image-url)
Element Templates

- Correspond to a single document element
- Automatically located and executed by Burner
- Located by searching up the directory path
- Most templates of this type
<div id="content">

% # Display separate pages.
% $burner-&gt;display_pages('page');
</div>

<%perl%>

if (my $page = $element-&gt;get_container('page', $burner-&gt;get_page + 1)) {
    foreach my $e ($page-&gt;get_elements) {
        next unless $e-&gt;has_name('book_profile')
        or $e-&gt;has_name('movie_profile');
        $burner-&gt;display_element($e);
    }
}
</%perl%>

</div>
Element Template Execution

/review.mc
/reviews/review.mc
/reviews/books/review.mc
Utility Templates

• Ordinary Mason components

• Executed as standard template architecture components

• Used for utility processing common across elements

```perl
<%perl>
# Handle related media.
if (my $media = $element->get_related_media) {
  $m->comp('</util/xhtml/format_img.mc', image => $media)
  if $media->get_media_type->get_name =~ ~/image/;
}
</%perl>
```
Utility Template Example

Image formatting template

```perl
<%args>
$image
</%args>
<%perl>;
my $image = $image->get_tile;
my $h = $image->get_data('height');
my $w = $image->get_data('width');
my $url = $media->get_url;
my $caption = $element->get_data('caption');
my $class = $element->get_data('position') || 'left';
$m->print(qq{
    <div id="image" class="$class">
        <$caption ? qq{
                <p>$caption</p>
            : ()},
        qq{
            <img src="$url" height="$h" width="$w" />
        }
    </div>
});
</%perl>
```
Template Demo
Document Editing

- Document structure adheres to definition
- Easy to use HTML forms
- Check out/exclusive locking
- Check in/version control
- Hierarchical content categorization
- Keyword association
- Contributor association
- Bulk editing
Story Demo

<table>
<thead>
<tr>
<th>INFORMATION</th>
<th>Trail</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 1024</td>
<td></td>
</tr>
<tr>
<td>Story Type: Review</td>
<td></td>
</tr>
<tr>
<td>Current Version: 1</td>
<td></td>
</tr>
<tr>
<td>Published Version:</td>
<td></td>
</tr>
<tr>
<td>URI: /reviews/movie/2003/06/02/princess_bride</td>
<td></td>
</tr>
<tr>
<td>Source: Cinebook</td>
<td></td>
</tr>
<tr>
<td>Priority: Normal</td>
<td></td>
</tr>
<tr>
<td>Title: The Princess Bride</td>
<td></td>
</tr>
<tr>
<td>Description: William Goldman's classic tail of true love and high adventure outshines the much-celebrated film.</td>
<td></td>
</tr>
<tr>
<td>Slug: princess_bride</td>
<td></td>
</tr>
</tbody>
</table>

Cover Date: Jun 02 2003 10:23

Expire Date: Month Day Year Hour Minute
Where to Learn More

- The Kineticode home page
  http://kineticode.com/
- The Bricolage home page
  http://bricolage.cc/
- The O’Reilly Mason Book
  http://www.masonbook.com/
- eWeek Tech Analysis
  http://www.eweek.com/article2/0,3959,652977,00.asp