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

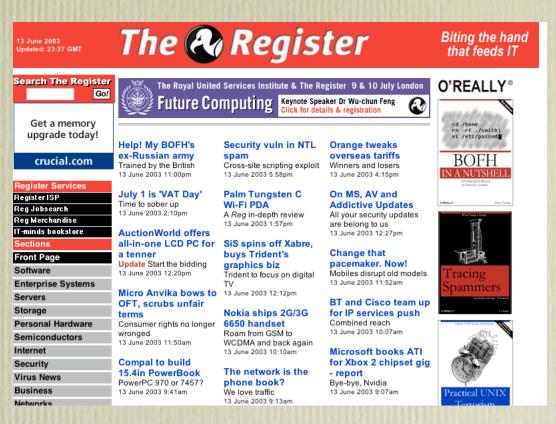




1:30 pm Australian resellers unhappy with Apple online store

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
- 7-10 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

Cinebook.org

The Princess Bride

Author: William Goldman Publisher: Ballantine

Year: 1973

The Princess Bride

Director: Rob Reiner **Stars:** Cary Ewles, Robin Wright, Billy Crystal, Andre

the Giant Year: 1988

Review



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 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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This is the caption. Let's try to make it really long, shall we?

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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

"My name is Inigo Montoya. You killed my father. Prepare to die."

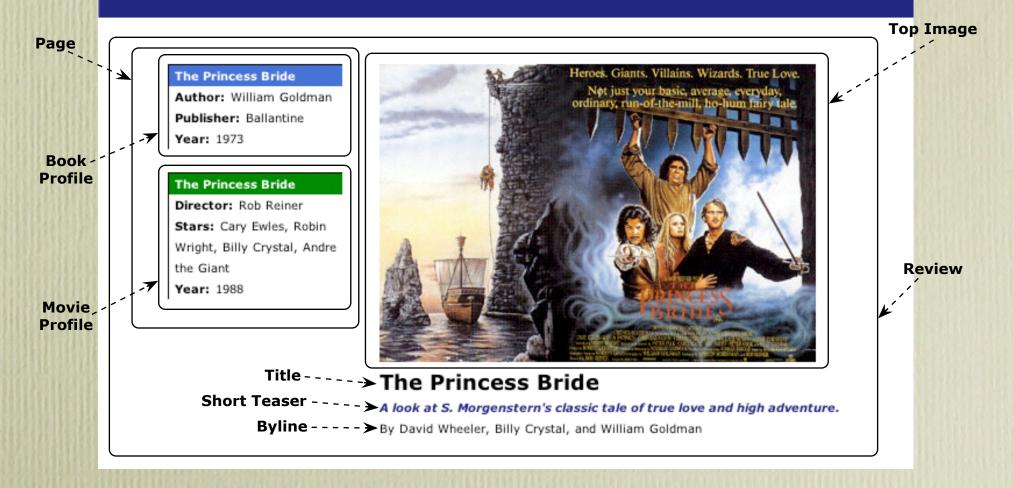
film who communicate almost solely through the use of quotes. Their recognition signal is not a handshake but a password. You just have to say 'Inconceivable' in the right way, and your in.

Next Page >>

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Cinebook.org



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e caption. Let's try

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Paragraphs

As you Wish ←----- Header

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"My name is Inigo Montoya. You killed my ___ father. Prepare to die." Pull Quote

Paragraph

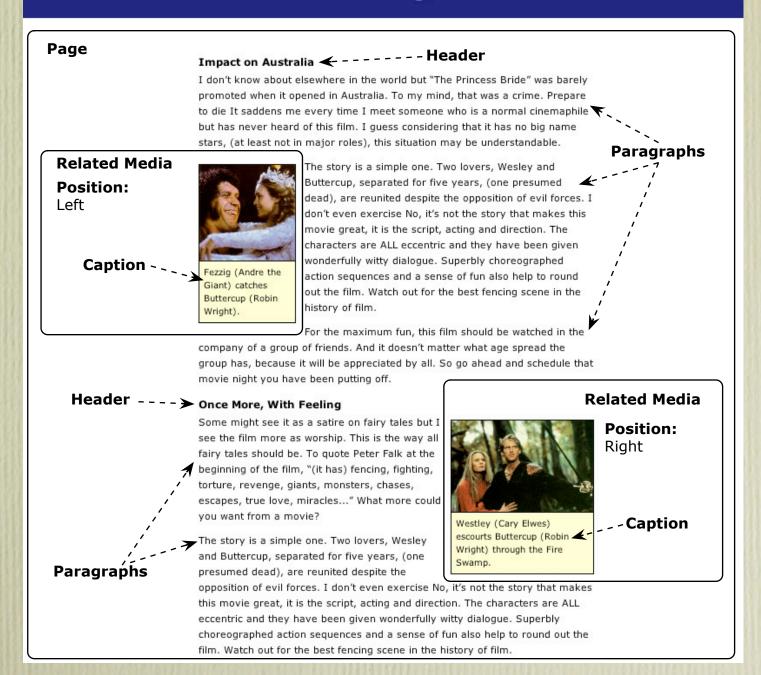
Related Media

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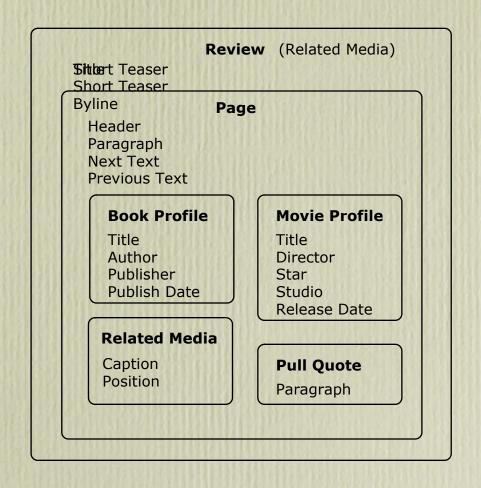
Next Text

Next Page >>

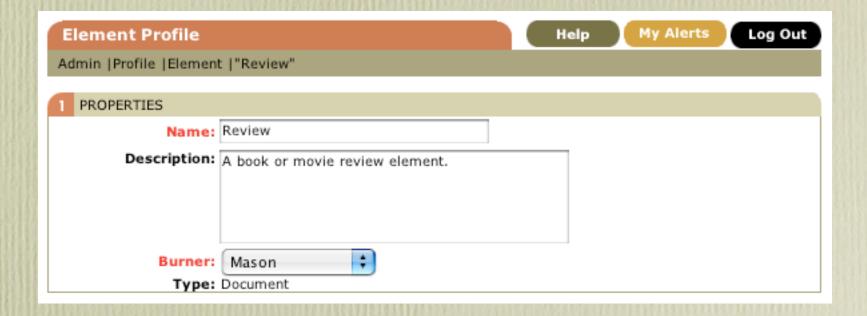
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Document Type Definition



Element Demo



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

\$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

\$burner Example

\$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

```
<body>
<%perl>:
# Handle related media.
if (my $media = $element->get_related_media) {
  my $uri = $media->get_uri;
   # Output all subelements.
foreach my $e ($element->get_elements) {
   if ($e->has_name('paragraph')) {
      } elsif ($e->has_name('header')) {
      $m->print(' <h3>', $e->get_data, "</h3>\n");
   } 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;
   </%perl>
 </body>
```

Three Template Types

- Category Templates
- Element Templates
- Utility Templates

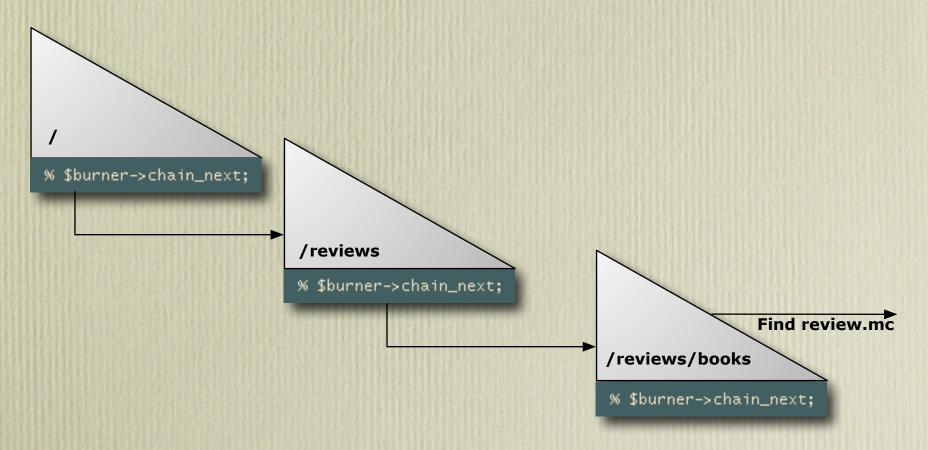
Category Templates

- 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

Category Template Execution

For "Review" story in /reviews/books category:



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

Element Template Example

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>;
# 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

```
<%args>
$image
</%angs>
<%perl>;
my $melem = $image->get_tile;
my $h = $melem->get_data('height');
my $w = $melem->get_data('width');
my $url = $media->get_uri;
my $caption = $element->get_data('caption');
my $class = $element->get_data('position') || 'left';
<img src="$url" height="$h" width="$w" />\n},
        ($caption ? qq{
                            caption \ ; ()),
              </div>\n});
        qq{
</%perl>
```

Template Demo

```
2 TEMPLATE CODE
         Element: Review (top level, related media)
    Data Elements: teaser (required) , short_teaser (required)
Container Elements: page
      <div id="content">
  <%perl>;
  unless ($burner->get page) {
      if (my $media = $element->get related media) {
          my $melem = $media->get tile;
          my $h = $melem->get data('height');
          my $w = $melem->get data('width');
          my $u = $media->get uri;
          $m->print(gg{ <img src="$u" height="$h" width="$w" />});
      $m->print('<h1>', $story->get_title, "</h1>\n");
      $m->print(qq{ },
                $element->get data('short teaser'), "\n");
      $m->print(' By ');
      $m->comp('/util/text/contributor list.mc',
               default => 'Cinebook Staff');
      $m->print("\n");
  if ($burner->get oc->get name eg 'XHTML') {
      # Display separate pages.
      $burner->display pages('page');
  } else {
```

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

1 INFORMATION	<u>Trail</u>
ID:	1024
Story Type:	Review
Current Version:	1
Published Version:	
URI:	/reviews/movie/2003/06/02/princess bride
Source:	Cinebook 🕏
Priority:	Normal
Title:	The Princess Bride
Description:	William Goldman's classic tail of true love and high adventure outshines the much-celebrated film.
Slug:	princess_bride
Cover Date:	Jun 7 02 7 2003 7 10 7 23 7
Expire Date:	Month Day Year Hour Minute 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