

Managing Knowledge in the Era of the Web

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October, 2002

Outline

- **The nature of the impact of the Web**
- **The author's changing role**
- **Asset management and content management**
- **Workflow**
- **Format and structure**
- **PDF**
- **The human factor**

My Background

- **Working in publishing since 1977**
- **Consulting to publishers about technology since 1985**
- **Five years at Seybold Seminars**
- **A gazillion articles and seminars on digital technology for publishing**
- **www.arcadiahouse.com**

How Has the Internet Changed the Role of the Author?

Role Change

If you had to choose just one:

1. It **has** changed their role completely
2. It **hasn't** changed their role at all

The Struggle

The struggle, as always, is between content and form, between commerce and creativity, between access to capital & distribution and smaller, independent voices.

The Internet Marches On

- **“49% (5.8 million of 12 million households) had at least one member that regularly used the Internet at home in 2001.”**
- **Up 1.1 million from 2000.**
 - **The Globe & Mail, July 26, 2002**

The Internet and Publishing

- **The potential impact is on every part of the publishing process:**
 - **Content and form**
 - **Commerce and creativity**
 - **Corporate concentration vs. independent voices**
- **How it actually plays out is another matter!**

Love Those New Tools!

“I mistrust this computer work. It’s too clean. The result is coming too quickly. I write all manuscripts still and first of all by hand, with pen and paper...”

— Günter Grass

Winner, Nobel Prize for Literature, 1999

First, a Simple Distinction

1. Fiction
2. Non-Fiction

**Let's focus just on non-fiction,
and call it (generalizing broadly):**

“Information Publishing”

How Has Digitization and the Web Changed Information Publishing?

Completely!

And in every way...

- **In more detail...**

The Process of Publishing

- **Authoring**
- **Production**
- **Distribution**

The Process of Publishing

- **Authoring**
 - research
 - writing
 - assembly of illustrations
- **Production**
 - editing
 - composition
- **Distribution**
 - marketing
 - physical distribution

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*Digitization
and the Web*



This is Our Biggest Yet

“When desktop publishing was launched into the world in 1984 it contained the shock of the new, and we thought we were witnessing a revolution. It was only later, when things settled down a little, that we could see that all we had achieved was the digitization of analog processes. We were still doing the same things for the same reasons, but with different tools; nothing had really changed.”

— The Columbia Guide to Digital Publishing

The Move to Content Management

- **The move from being exclusively print-focused...**
- **To encompassing multiple media — print, the Web, CD-ROM, wireless...**
- **And managing that production digitally**

Asset Management and Content Management

Terminology

Digital Assets:

Electronic files containing text, images, sounds and/or moving images.¹

1. As well as data about the assets (metadata).

Terminology

Asset Management:

Software system used to catalog digital content for archiving or reuse.

Terminology

Content Management:

Technology and processes to maintain digital assets in a form where they can be quickly and easily reclaimed and reused in publishing workflows.

What is Content Management?

Collecting, managing, and making content¹ available

- 1. Content = all digital assets: text, images, rich media, and metadata**

Content Management vs. Asset Management

- **Asset management just stores content**
- **Content management *deploys* content into multiple media**
- **Content management =
asset management + workflow**

Terminology

Workflow:

The sum of the processes involved in the creation of print and/or electronic pages.

The Workflow Problem

- **Product creation and production control functions are shared by the author, the publisher *and* printer — at different locations, at different times, and with different priorities**

The Value of Content Management

- **Control assets**
- **Improve workflow**
- **Control rights and permissions**
- **Publish to multiple media**
- **Reduce time to market**
- **Offer new products from the same content**

On the other hand,
it can be
expensive...

Figure 5 Basic Costs Of Content Management

Investment	Type	Cost	Vendors
Content management software	License	\$250,000	Vignette, Documentum, Interwoven
Professional services	Implementation*	\$180,000	Software professional services groups plus integrators like Sapien, IBM Global Services
	Training	\$3,000 [†]	
Knowledge engineering	Controlled vocabulary and content hierarchy	\$200,000 [‡]	Requisite, SAQQARA, Metacode (Interwoven)
Total:		\$633,000	

* Three developers for 8 weeks @ \$1,500/day

[†] Two-day training course for 3 staff members @ \$1,000/pupil

[‡] Average cost for 50,000 pages

Becoming a Content-centric Business

- The existing model is “product-centric”
- Clearly the *form* of the products is fast-changing
- But the *content* has enduring value
- The publisher’s core competency is content-creation and distribution
- And it’s existing customer relationships

The Importance of XML

- **XML fundamentally enables content management**
- **Combining of the power of style sheets with the power of databases**
- **Style sheets with meaning**

Format vs. Structure

- ***Format*** describes how content is intended to look when it is displayed or printed
- ***Structure*** describes the purpose or meaning of content

A Case Study

- **The Columbia Guide to Digital Publishing**
- **Author templates with full tagging for structure and format**
- **Editing handled in Microsoft Word**
- **Direct tagged output**
- **Online and print version**

PDF

- **The perfect “tweener” format**
- **Appealing to publishers in between the all-paper generation and the upcoming all- (or mostly all-) electronic generation.**

PDF for Publishing

■ Authoring

- research
- writing
- assembly of non-text materials

~~PDF~~

■ Production

- editing
- composition

~~PDF~~

PDF

■ Distribution

- marketing
- physical distribution

~~PDF~~

PDF

The Human Factor

- **This is complex and sophisticated technology**
 - **Far tougher than DTP/prepress**
- **Implementation takes time**
- **Plan to study and learn gradually**
- **The potential benefits of CMS are enormous!**

Thank you

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