



FLATIRONS | SOLUTIONS
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Using DITA Concepts with Word

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About Flatirons Solutions

- Experts in Enterprise Content Management (ECM) solutions for commercial and government clients
- Specialists in XML-based single-source publishing, digital asset management, web content management, and content globalization
- Full lifecycle services including strategy, architecture, design, and implementation
- Active participants in the OASIS DITA, DocBook and CMIS committees
- Offices in Boulder, CO, Washington, DC and Dallas, TX
- Inc. 500 company with over 125 consultants



DITA in its Essence

DITA's Vision

To provide a simple way of expressing and accessing content

Straightforward information in topic format

Easily reusable in any desired context

To support dynamic content delivery

Easily customized to meet each user's needs

Easily transformable to any desired output type

To easily integrate and exchange content

Across multiple functional areas

Across business partners

To be scalable across both simple and complex applications

Topic types can range from very simple to highly specialized

DITA is a Concept, Not Just a Syntax

- Authoring simple, straightforward content in topics
- Allowing reuse of topic content across multiple contexts
- Creating flexible assemblies of topics using maps
- Filtering topics to be included based on metadata
- Flexible output to multiple media types
- Allowing dynamic search and custom assembly from a pool of topics

DITA Can be Easy or Hard

Basic (Unspecialized) DITA Topic

Topic Title

Topic Body

Sections

Paragraphs

Lists

Graphics

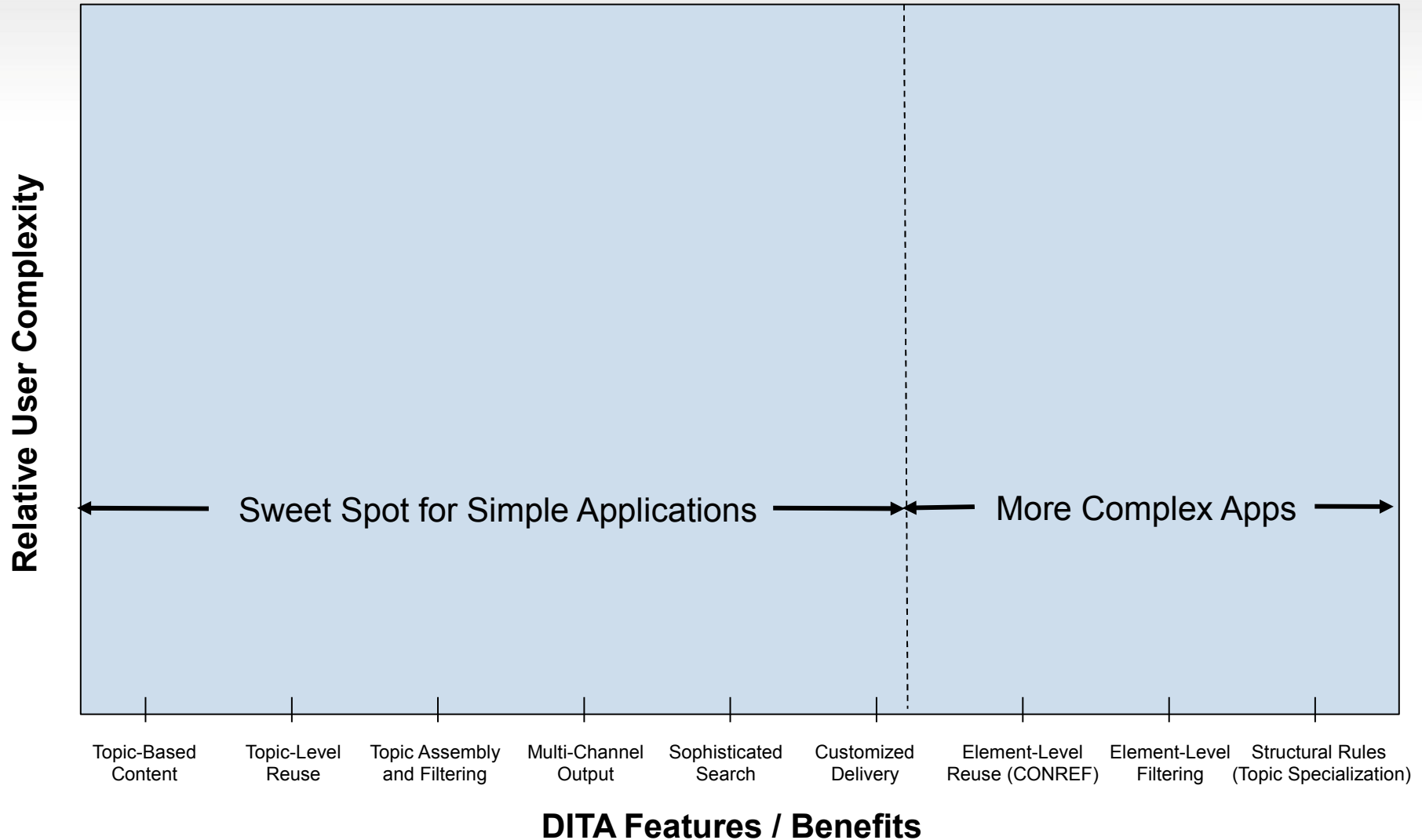
Tables

Links

But DITA Can be Complex

The screenshot displays the Oxygen XML Editor interface. The main window shows a DITA structure tree for a task named 'mytask'. The tree includes a 'SEQUENCE' container with elements like 'title', 'titlealts', 'CHOICE', 'prolog', 'taskbody', and 'mytaskbody'. The 'mytaskbody' element is selected, and a context menu is open over it, showing options such as 'Edit', 'Change Multiplicity', 'Replace', 'Specialize', 'Duplicate', 'Add choice', 'Make choice', 'Extract container', 'Pack in container', 'Divide', 'Combine', 'Delete', and 'Restore structure'. The 'Change Multiplicity' option is expanded, showing a list of cardinality options: '1..1 (Required)', '1..* (One or more)', '0..1 (Optional)', and '0..* (Zero or more)'. The 'Modules' panel on the right shows a list of modules including 'mytask', 'task', 'topic', 'utilitiesDomain', 'softwareDomain', 'indexingDomain', and 'highlightDomain'. The 'Problems' panel at the bottom shows a list of messages, including 'Content', 'DTD XML', and 'Found 0'.

DITA Cost / Benefit Tradeoffs



What About Microsoft Word?

Word is Structured Though it's not DITA

XYZ Coffee | **Standard Operating Procedure**

Making Espresso

Introduction

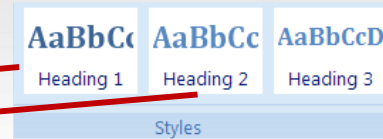
Making espresso requires four things: fine espresso coffee, an espresso machine, a grinder, and a barista!

- **The Coffee:** A common misconception about espresso is that it is a specific bean or roast level. Any bean, combination of beans from [different origins](#) (referred to as a blend), or roasting level can be used to produce authentic espresso.
- **The Espresso Machine:** The espresso machine's task is to deliver water to the grounds in a predetermined pattern of temperatures and pressures. These patterns are known as temperature profiles and pressure profiles. A quality espresso machine should be able to produce consistent temperature and pressure profiles every shot, even under heavy use.
- **The Grinder:** The grinder is the most important piece of equipment in an espresso bar. Grinders are usually overshadowed by more expensive, flashier espresso machines, but grinder quality is arguably the single most important factor in preparing a great espresso.
- **The Barista:** Although many people think preparing espresso is a simple job, a qualified barista must be well-trained and have at least a year's experience in the field.

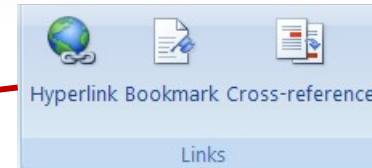


It's also critical to use the proper amount of espresso! The following table gives recommended amounts for single, double, and triple shots:

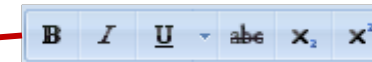
Desired Amount of Espresso	Coffee Volume in Grams	Coffee Amount in Ounces
Single Shot	7-10 grams	0.2-0.3 oz
Double Shot	12-18 grams	0.4-0.6 oz
Triple Shot	20-28 grams	0.6-0.8 oz



Headings and Titles



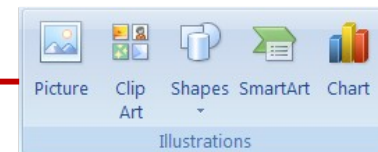
Links and References



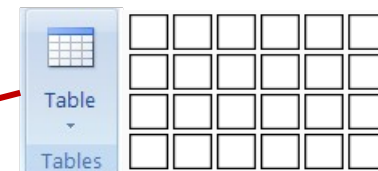
Highlighting Elements



Unordered and Ordered Lists



Graphics and Illustrations



Tables and Table Structure

Word has a Concept of Reusable Objects

The screenshot shows the Microsoft Word 2010 interface. The ribbon is set to the 'Insert' tab. The 'Quick Parts' button in the ribbon is highlighted with a red circle, and a red arrow points from it to the 'Building Blocks Organizer' dialog box. The dialog box is open, showing a list of building blocks. The 'Espresso M...' entry is selected, and its preview is shown on the right. The preview includes the text 'Espresso Machine Cleaning and Maintenance' and an image of an espresso machine.

Building Blocks Organizer

Building blocks:

Name	Gallery	Category	Template
Dots	Page Num...	Plain Number	Built-In Buil...
Circle	Page Num...	With Shapes	Built-In Buil...
Brackets 2	Page Num...	Plain Number	Built-In Buil...
Brackets 1	Page Num...	Plain Number	Built-In Buil...
Bold Num...	Page Num...	Page X of Y	Built-In Buil...
Bold Num...	Page Num...	Page X of Y	Built-In Buil...
Bold Num...	Page Num...	Page X of Y	Built-In Buil...
Accent Bar 2	Page Num...	Page X	Built-In Buil...
Accent Bar 1	Page Num...	Page X	Built-In Buil...
Espresso M...	Quick Parts	General	Building Blo...
Automatic ...	Table of C...	Built-In	Built-In Buil...
Automatic ...	Table of C...	Built-In	Built-In Buil...
Manual Table	Table of C...	Built-In	Built-In Buil...
Calendar 4	Tables	Built-In	Built-In Buil...
Calendar 3	Tables	Built-In	Built-In Buil...
Calendar 2	Tables	Built-In	Built-In Buil...
Calendar 1	Tables	Built-In	Built-In Buil...
With Subhe...	Tables	Built-In	Built-In Buil...
With Subhe...	Tables	Built-In	Built-In Buil...
Matrix	Tables	Built-In	Built-In Buil...
Tabular List	Tables	Built-In	Built-In Buil...
Double Tab...	Tables	Built-In	Built-In Buil...

Click a building block to see its preview

Espresso Machine Cleaning and Maintenance

Some people don't know that the espresso machine is a complex piece of machinery. It's not just a coffee maker. It's a machine that requires regular maintenance to keep it in good condition.

Cleaning

Most espresso machines have a descaling cycle. This is a process that removes mineral deposits from the machine. It's important to do this regularly to keep the machine running smoothly.

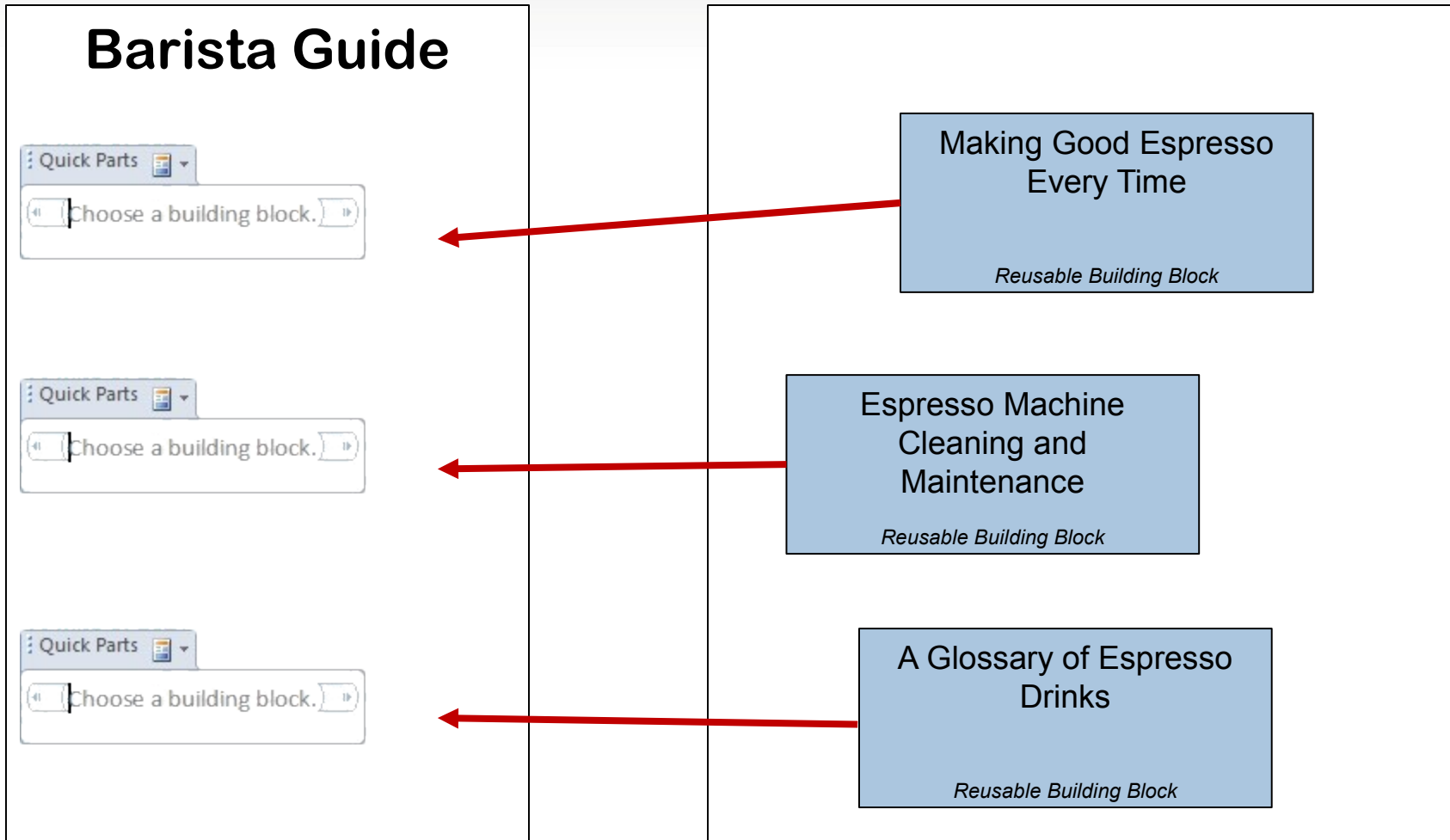
Espresso Machine

Buttons: Edit Properties..., Delete, Insert, Close

Topic-Oriented Reuse in Word

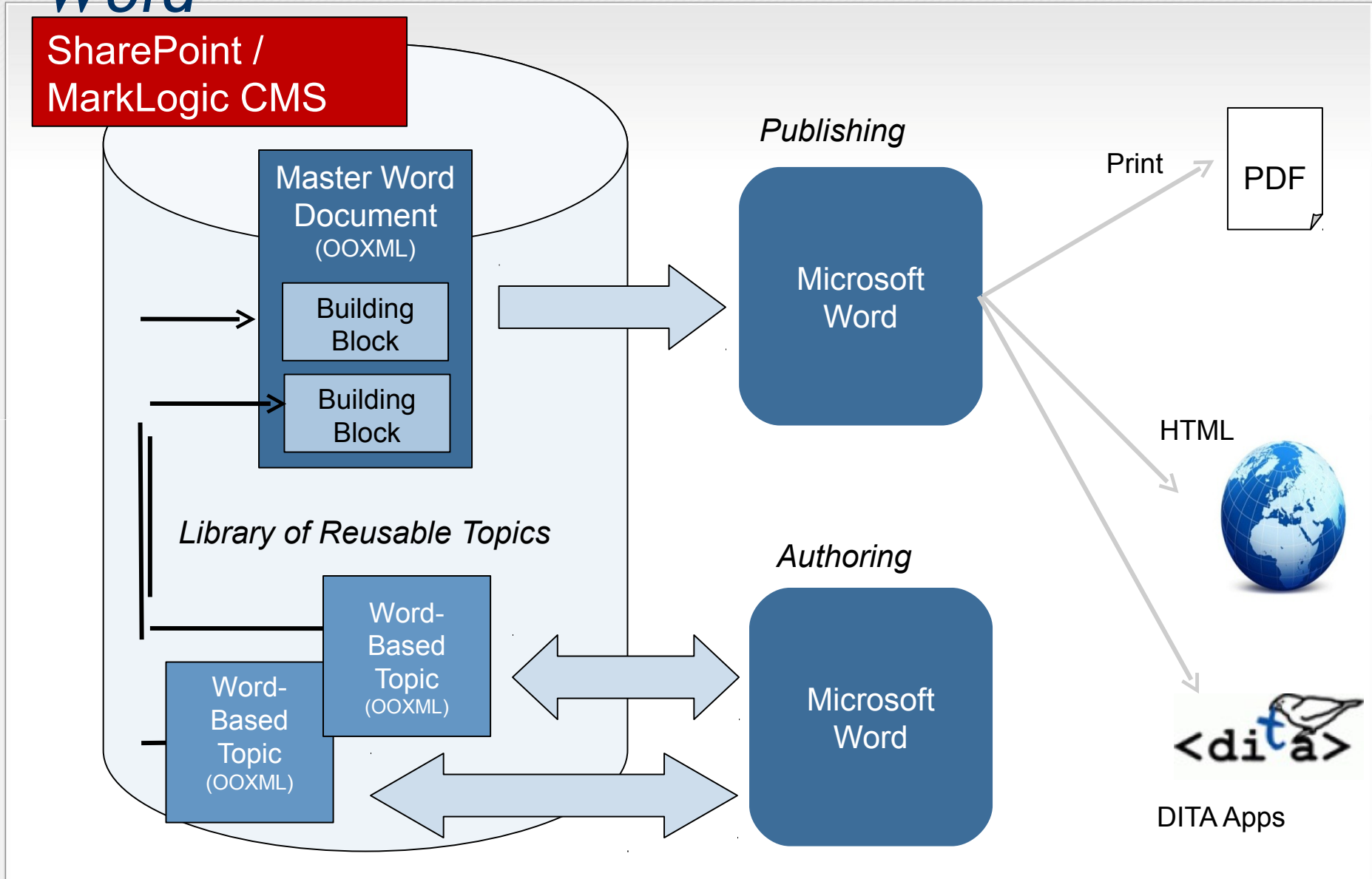
A Document Built out of Reusable Parts

Word's Reusable Document Building Blocks



Putting it Together

'DITA-Like' Architecture Using Word



DITA XML

Top-Level

<topic><title>
<section><title>

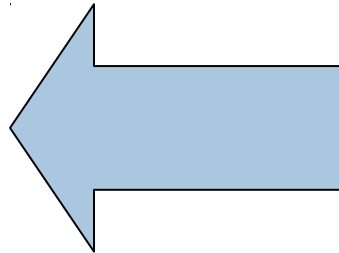
In Body

<p>
<table>
<image>

In Text

<xref>

<i>
<u>



OOXML (Simplified)

- <w:p style="heading1">
- <w:p style="heading2">
- <w:p numtype="arabic">
- <w:p numtype="bullet">
- <w:p>
- <w:tbl>
- <w:p><w:drawing>
- <w:hyperlink>
- <w:t style="bold">
- <w:t style="italic">
- <w:t style="underline">

Questions and Answers