


Single-Sourcing with WebWorks ePublisher

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WebWorks ePublisher (WWeP)

Quadralay Corporation
<http://www.quadralay.com>
 (or <http://www.webworks.com>)


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Topics

- Introduction to WWeP
 - Concept
 - Capabilities
 - Robust minimal configuration
- Heavy duty single-sourcing with Word and WWeP
 - Purpose
 - Source-side implementation
 - Output-side implementation
 - Localization issues

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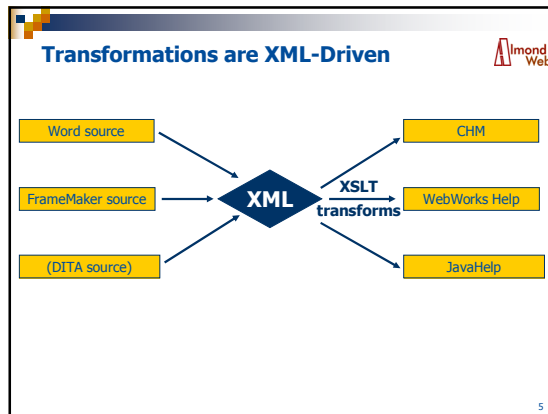



What does WebWorks do?

- Transforms source documents to output formats
- Supported sources:
 - Word
 - FrameMaker
 - (DITA, ...)
- Supported outputs:

CHM	WebWorks Help	WinHelp
JavaHelp	Oracle Help	HTML
XML	MS Reader	Palm Reader
PDF	(Custom)	(Vista, ...)

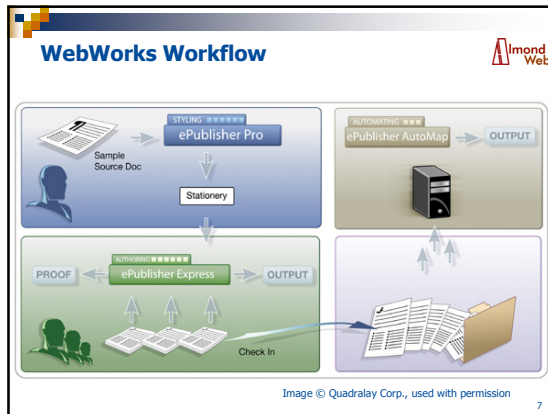
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WebWorks Workflow

1. Prepare a sample source document
 - Illustrates your styles
2. Configure WebWorks to process the sample document
 - One-time investment
3. Convert documents to online help
 - A few minutes per document
4. Update the documents and convert again
 - A few minutes per update, forever

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- ### WWeP Editions
- Pro
 - Configuration
 - Customization
 - Runtime
 - Express
 - Runtime
 - AutoMap
 - Server runtime
 - High volume/scheduled processing
 - Integrates with content management systems
 - Typical usage for a large documentation department
 - 1 Pro + multiple Express + 1 AutoMap

- ### Why Does It Work?
- All the information content is in the source
 - All the semantic structure is in the source
 - Heading hierarchy
 - Cross references
 - Index entries
 - Numbered and bulleted lists
 - Tables
 - All the format definitions are in the WWeP configuration
 - Or inherit from the source

- ### What is in the Output?
- Help topics
 - Links
 - Navigation pane
 - TOC, index, search, favorites
 - Navigation aids
 - Browse buttons, breadcrumbs
 - Boilerplate text and graphics
 - Logo, home-page link, email link, etc.
 - Fully formatted
 - Skins
 - Page-number references removed
 - Merged documentation libraries
 - Supports context-sensitive help

Sample Input

Graphics

Conceptual Figures

Use the style drawing for imported line drawings, diagrams, and other types of figures that are used to explain concepts. Two small drawings can be inserted side by side, separated by a Tab.

Sample Output

Sample Output (2)

Subheading Hierarchy

For subheadings, use Heading 2, Heading 3, and Heading 4 as illustrated throughout this book. Heading 3 must be nested within Heading 2. Heading 4 can be used without regard to nesting (even directly under a Heading 1).

The heading of this section is a Heading 4.

Drop Down Headings >

Subheading Hierarchy

For subheadings, use Heading 2, Heading 3, and Heading 4 as illustrated throughout this book. Heading 3 must be nested within Heading 2. Heading 4 can be used without regard to nesting (even directly under a Heading 1).

The heading of this section is a Heading 4.

Drop Down Headings v

To implement drop-down hotspots in a WWP help project, use the Heading 4 DropDown style.

Subheadings within Drop Downs

Within a drop-down, use Heading 5 for minor subheadings, as in this example.

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Multiple Documents in a Single Project

- Output is a single CHM, or
- Output is a merged CHM library
- Example:
 - Library of 22 independent CHMs
 - If a CHM is missing, the TOC silently omits it
 - Entire library can be generated in a single run

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Language Support

- Out-of-the-box
 - Western European
 - Eastern European
 - Asian
 - UTF-8
- Custom code pages
 - Hebrew

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Sample Hebrew CHM

The screenshot shows a web browser window displaying a Hebrew CHM. The left pane shows a table of contents with items like 'Simlac Human Milk Fortifier', 'Entamil Human Milk Fortifier', and 'Cow & Gate Nutricia Human Milk Fortifier'. The main pane shows the text of the first document, which is a technical document in Hebrew. The browser's address bar shows 'HTML Help'.

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Customization

- XSLT transformations are 100% open-source
- Project override mechanism
- An XSLT programmer can customize anything
 - Page layout
 - Text replacement
 - Style handling
 - Custom index for embedded help
 - Custom output format

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Robust Minimal Configuration

- Minimal = least possible work
- Robust = handles all kinds of formatting reliably
 - Including formatting that wasn't in the original sample document

WebWorks no longer requires that you configure all styles fully

WebWorks no longer requires rigorous style formatting

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Robust Minimal Configuration

- Configure essential default properties
 - Font family, size, margins
- Configure heading styles
 - Size and color
- Configure list styles
 - Bullets, indentation
- Inherit everything else
 - Italics, bold, underline, color, ...

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Inheritance Mechanism

- Every CSS property can:
 - Inherit from Word/FM style
 - Inherit from Word/FM direct formatting
 - Inherit from WWeP Default style
 - Inherit from parent style
 - Have explicit formatting
 - Ignore a format

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Inheritance Mechanism

Word = black, 12 pt, indent -2 cm
 WWeP Default = blue, 8 pt, indent 0 cm
MyStyle = blue, 12 pt, indent -1 cm

New style, not in sample doc

Word = brown, 10 pt, indent -2 cm
 WWeP Default = blue, 8 pt, indent 0 cm
MyStyle2 = blue, 10 pt, indent -1 cm

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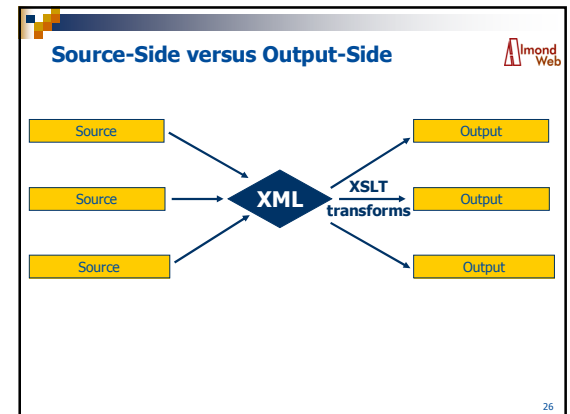
Sample of Robust Minimal Configuration

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Heavy Duty Single-Sourcing with Word and WWeP

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Source-Side Examples

- Multiple product models
 - Document PM01, PM02, ... in single source document
 - Output independent manuals for each product
- Multiple vendors
 - OEM1 sells the product under the name "Gazelle"
 - OEM2 sells the product under the name "Aardvark"
 - Different logos, legal pages, support addresses, install paths, etc.

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Output-Side Examples

- Multiple output formats
 - JavaHelp to include in product
 - WebWorks Help for web site
 - PDF for print

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Localization Issues

- Documentation is written in English
- Localized to:
 - French
 - Russian
 - Japanese
- Goal
 - Keep the versions as unified as possible

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The Single-Sourcing Problem

- Output requirement
 - 6 product models
 - X 2 OEM vendors
 - X 2 output formats
 - X 4 languages
 - = 96 output documents
- Goal
 - 1 source document per language
 - X 4 languages
 - = 4 source documents

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Source-Side Implementation in Word

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Included Text (1)


- Create a resource document
 - Formatted or unformatted text
 - Bookmark each resource
- Example:
 - ProductName = Gazelle
 - InstallPath = c:\Program Files\OEM1\Gazelle
- Use fields to import the resources


```
{ INCLUDETEXT "c:\\resources\\resource.doc"
  InstallPath \\*charformat }
```

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Included Text (2)



- Advantages:
 - Long or short resources
 - Formatted resources, graphics
 - Use one resource many times
 - Compatible with WebWorks
- Disadvantage:
 - Requires custom-macro support
- We use this approach for a 1000-page doc set X 2 vendors X 4 languages
 - Eight 10-page resource files

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Document Variables (1)



- Example
 - `ProductName = Gazelle`
- FrameMaker
 - Out-of-the-box
- Word
 - Use custom document properties as variables
 - Requires macro support
- WebWorks support
 - Set the variables in the source document, or
 - Set the variables in WWeP

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Document Variables (2)



- Advantages:
 - Variables are stored in the document
- Disadvantages:
 - Values can be short, unformatted strings only
 - You must set the variables for each output
 - Can be tedious if there are numerous variables
 - Requires macro support

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Conditional Text (1)




- Example:


```
To register the product, send an email to your distributor browse to http://www.OEM2.com.
```
- FrameMaker:
 - Out-of-the-box
- Word:
 - Full support via WWeP add-in for Word
 - Show/hide conditions in Word or in WWeP

```
{ PRIVATE WWMTE OEM1 } send an email to your distributor{ PRIVATE WWMTE OEM1 }{ PRIVATE WWMTE OEM2 } browse to http://www.OEM2.com{ PRIVATE WWMTE OEM2 }
```

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Conditional Text (2)



- Advantages:
 - Text is stored in document
 - Fully formatted
 - Can conditionalize long or short passages
 - Built-in WWeP support
- Disadvantages:
 - Can be confusing to review
 - Must conditionalize each instance independently
 - Can't conditionalize a single table row
 - Logical issue: be careful when conditionalizing numbered steps or chapters

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Output-Side Implementation



- Configure a single WWeP project for multiple outputs
 - JavaHelp
 - WebWorks Help
 - PDF
- Don't display certain pages/styles/graphics
- Show/hide conditions
- Assign variables
- Add or substitute text

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Examples of Substituting Text

- Word cross reference: *see Setup on page 26*
- Desired help link: *see Setup*

- Word chapter title: *2 Installation*
- Desired help title: *Chapter 2: Installation*

- Word heading: *Gazelle® Setup*
- Desired help TOC entry: *Gazelle Setup*

- WWeP supports out-of-the-box or with simple customization

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Localization Pitfalls (1)

- English: multiple product names
 - a Gazelle data transformation
 - a Horned Animal data transformation
- German
 - eine Gazelle-Datenumwandlung
 - eine Horned-Animal-Datenumwandlung
- In German, you need resources for
 - Horned Animal
 - Horned-Animal

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Localization Pitfalls (2)

- English:
 - Installing Gazelle
 - Installing Aardvark
- French
 - Installation de Gazelle
 - Installation d'Aardvark
- In French, you need a resource for
 - de or d'

When you plan a single-sourcing implementation, think ahead about the localization needs

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Summary

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