

EUROPE'S LEADING AEM DEVELOPER CONFERENCE 28th – 30th SEPTEMBER 2020

Creating Print Media at Scale with AEM Harold Putman – Sr. Web Developer, Lexmark International



About Harold Putman

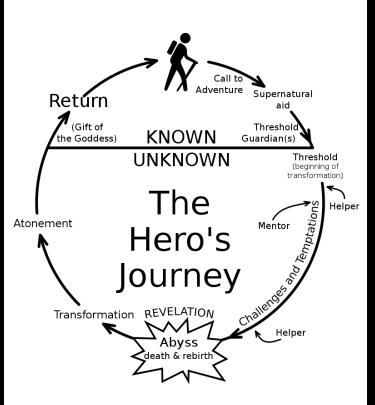


- Certified AEM Developer/Architect
- Lexington, Kentucky USA
- Using AEM at Lexmark since 5.6 (2013)





An AEM Story



- Ordinary life
- Call to adventure
- The ordeal
- Triumph & transformation



Ordinary Life





Problem of Print Media

- Printed datasheets ~100 new products year
- 30 languages, 59 locales
- Expensive to create
- Low impact on sales



Content Analysis









Images

Marketing

Diagram

Specs



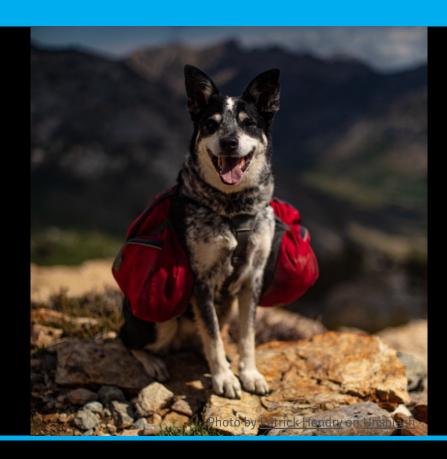
Three Major Issues

- Localization
- Layout
- Maintenance

Photo by Giorgio Parravicini on Unsplash



The Call to Adventure





The promise of AEM Sites

- Already integrated with PIM
- Established localization process
- HTML layout is flexible
- AEM development is in marketing not IT



Refusing the Call





Doubts

- Are HTML documents suitable for printing?
- Can AEM create PDF we need?
- New users in AEM authoring environment?
- Could reviewers give up control?

<mark>Phot</mark>o by <u>Ronaldo de Oliveira</u> on <u>Unsplas</u>



Meeting the Mentor





Sprint Zero

- Simplified universal brochure design
- PDF generation proof of concept
- AEM 6.4 structured content fragments

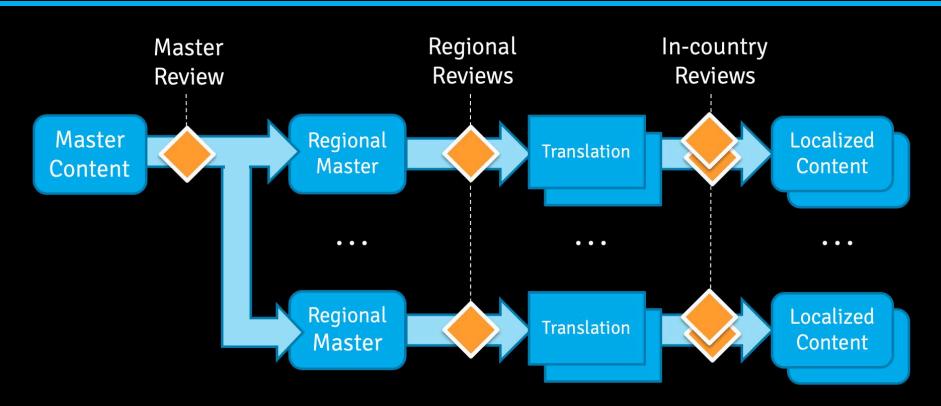


Crossing the Threshold



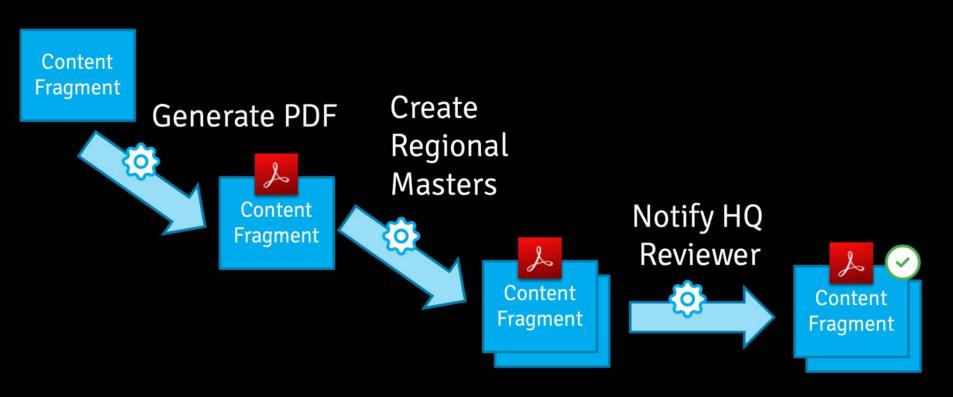


A Simplified Process



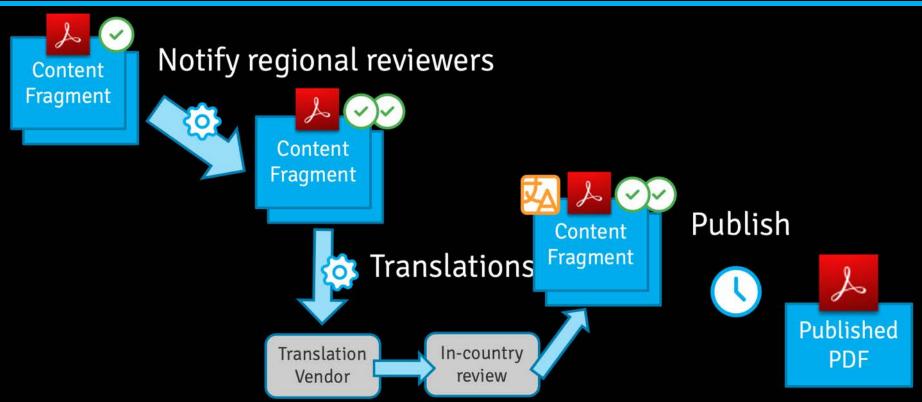


Implementation





Implementation (continued)





Demo

https://youtu.be/Mu7YefRIIXw

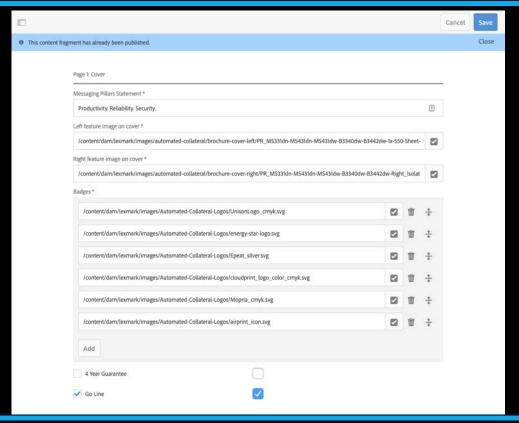


Customized Content Fragments

- Content Fragment Model defines brochure elements
- Extended Metadata Schema to include
 - Review process states
 - Translation requests
 - Publish dates



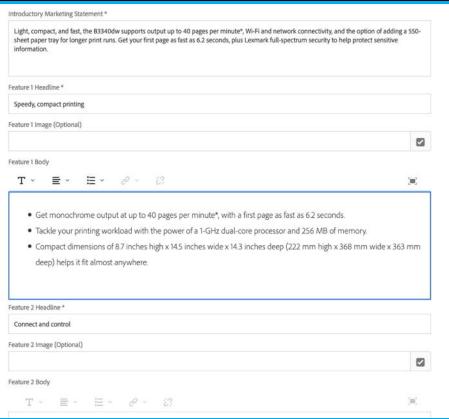
Authoring Fragments



- Model defines authoring form
- Customized creation wizard to attach product info



Entering Content



- Focus on content
- Basic formatting



Custom Field Type

- Copy and modify existing component
- Edit content fragment model reference new slingResourceType



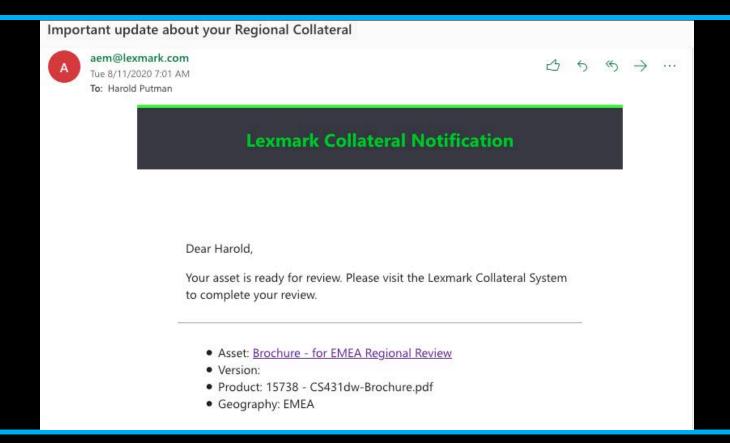


Making PDF

- Carefully crafted AEM page (HTML)
- Render PDF with Prince
- Analyze result / make it fit

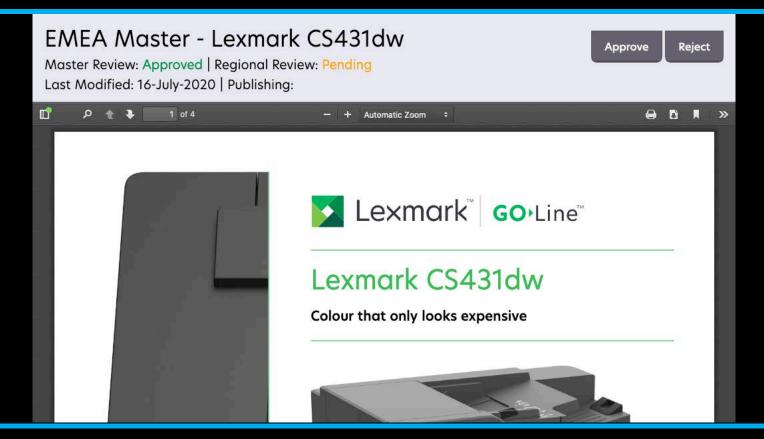


Seamless Review Experience





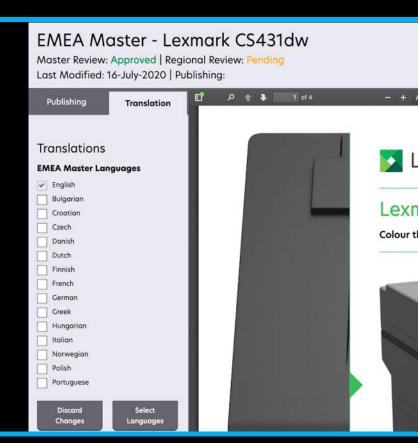
Intuitive Review Experience





Integrating with Translation Vendor

- Easily request languages
- Automate translation connector interface
- Vendor-supplied API





The Ordeal





Our Ordeal

- Colliding workflows
- Lost translations
- Troubled footnotes



Colliding Workflows

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Lost Translations

5/2/19 5:15 PM

I just tried submitting sk_sk from en_gb and it got EST words=0 and went right to NTR



Troubled Footnotes

- Custom symbols
- Mixed formats
- Breaking layout

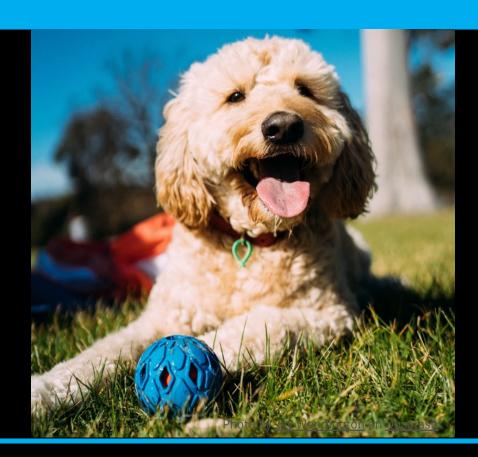


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¹ Print and copy speeds measured in accordance with ISO/IEC 24734 and ISO/IEC 24735 respective ² "Recommended Monthly Page Volume" is a range of pages that helps customers evaluate Lexm print on the device each month. Lexmark recommends that the number of pages per month be with supplies replacement intervals, paper loading intervals, speed, and typical customer usage. ³ "Most could deliver in a month using a multishift operation. This metric provides a comparison of robustric replacement cartridges designed for use in a specific geographical region. See www.lexmark.com, standard pages as listed. Declared yield value in accordance with ISO/IEC 19798. ⁶ Printers are so printerlicense for details.



Triumph





Resulting Brochure









Images

Marketing

Diagram

Specs



Lessons Learned

You can spell

AWESOME

with **AEM**

but you have to add your own

W-O-E-S



Lessons Learned

- Challenge assumptions
- Leverage management support
- Listen to stakeholder needs
- Assure stakeholders of progress
- Negotiate changes in process



Transformation





Business Transformed

- Brochures generated from AEM
- Requests for local tweaks have disappeared
- Brochures stay up to date and accurate
- InDesign authors can focus on other things

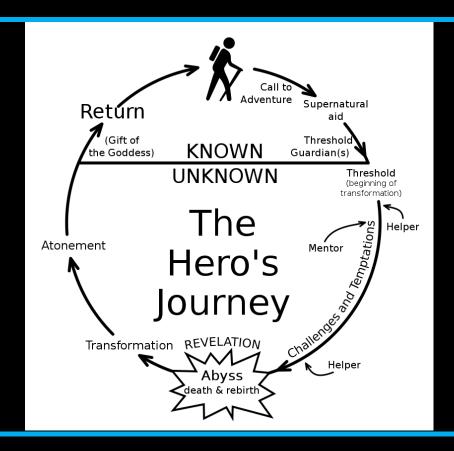


Development Team Transformed

- Embraced new features
 - Touch UI
 - Structured content fragments
- Extended the reach of AEM



Your Adventure Awaits...





Questions?



Appendix



Credits

I was first introduced to the idea of using the Hero's Journey for something other than literature by Donald Miller who created <u>StoryBrand</u>, a digital marketing company built around this idea. Inspiration for using it in a presentation came from <u>This Classic Storytelling Model Will Help You Give a Mesmerizing Presentation</u> by Alex Blinkoff. Examples from well-known movies inspired by Sarah McQuire's article <u>What Your 6 Favorite Movies Have in Common [Infographic]</u>. I never actually read the original idea from Joseph Campbell, but you can find it in his 1949 book <u>The Hero with a Thousand Faces</u>. This concept has been applied to everything from advertising to psychotherapy, so why not explore software development? Enjoy the adventure!