

Microcontent Migration

Making the Move to New Content Opportunities

Josh Anderson, CPTC





Who I Am

- Associate Information Architect at Precision Content
- Sessional Instructional Assistant at the University of Toronto
- Master of Information from the University of Toronto
- Certified Professional Technical Communicator (CPTC)
- Grew up in Chicagoland





About Precision Content

We are experts in structured content.

We're a full-service, end-to-end technical communications consultancy, technology innovator, and systems integrator offering professional services, training, and technology.





Areas of Expertise

Precision Content is home to thought leaders and expertise in the areas of

- structured authoring methods
- · content lifecycle management
- DITA/XML design and implementation
- · information architecture
- · content strategy,
- and structured content delivery.



Introduction to the problem

 Our employee handbook was unstructured, out-of-date, and unable to be easily published in the formats we desired









What we *could* do with our handbook vs. what we wanted to be able to do

- Things we could do
 - Print the Word document
- Things we wanted to be able to do
 - Make collaboration easier
 - Reuse some topics
 - Track old revisions of specific topics
 - Load topics into a component content management system (CCMS)
 - Future-proof the content
 - Use variables to provide specific names rather than roles within the handbook (e.g., "Chris" instead of "COO")



Microcontent

Is content that is

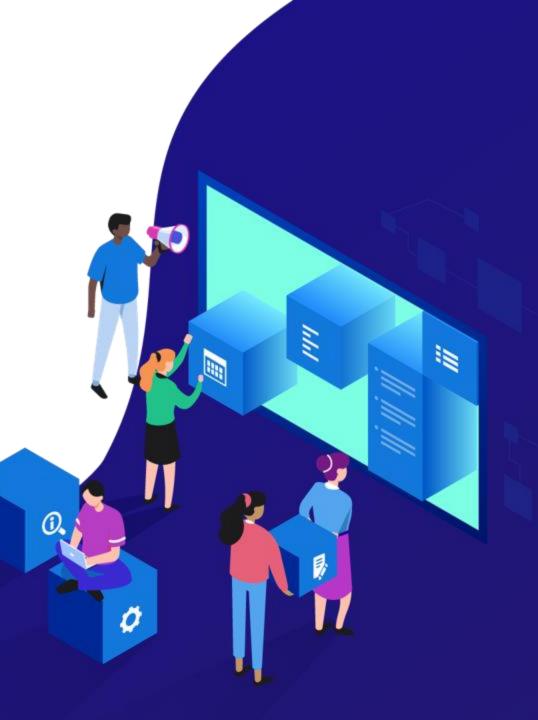
about one primary idea, fact, or concept

easily scannable

 labelled for clear identification and meaning, and

 appropriately written and formatted for use anywhere and anytime it is needed

It's not microcontent just because it's small!





Four Principles of Intelligent Microcontent



Focus



Function



Structure

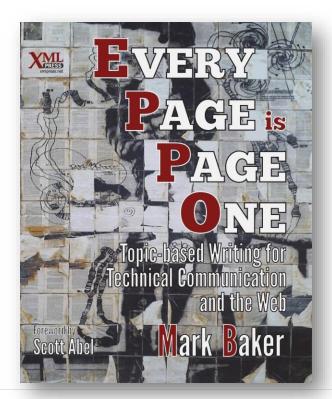


Context





- Microcontent must be about only one subject
- Allows content to operate as building blocks of information
- "Every Page is Page One"





- Where would you look for information about unplanned absences?
- Unfocused content has a poor "information scent"



Compensation
Pay dates
Pay stubs
Income tax documents
Payroll errors
Hours of work
Overtime
Bonuses and other compensation
Employee Health Benefits
Professional development
Time away
Statutory holidays
Company vacation shutdown
Vacation time and vacation pay
Appointments
Personal Emergency Leave
Sick leave
Compassionate leave
Parental leave
Jury duty
Unpaid leave



Information about hours of work

Information about lunch breaks

Requirement for planned absences

Requirement for unplanned absences

Hours of work

The typical office hours for PRECISION CONTENT are 9 a.m. to 5 p.m. Monday through Friday inclusive (excluding holidays). Core hours are between 10:30 a.m. and 3:30 p.m. During core hours employees are expected to be reachable at their desk outside of their lunch break. For example, an employee can work 6:30 a.m. to 3:30 p.m. All employees are expected to work 8 hours per day, inclusive of a paid lunch break of one hour. All employees are encouraged to take a physical break from their workstation, every day during their lunch break.

Employees may also be expected to work such other hours as may be requested or required, from time to time. Employees hired on a part time basis will have schedules determined on a case by case basis.

Employees are required to notify Martina Piasecki, in advance, of planned days away from the office.

Unplanned absences from the office should be reported to Rob Hanna or Chris MacMillan, and to Martina Piasecki as soon as can be reasonably be expected.



- Microcontent must be typed to identify user intent
- Precision Content information types
 - Reference
 - Task
 - Concept
 - Process
 - Principle
- "Information is what information does"



Function

Hours of work

The typical office hours for DDECICION CONTENT

Work hour expectations

Reference information

Full-time employees are expected to work 37.5 hours per week. Unless otherwise stipulated in your employment contract, your core hours are between 10:30 am and 3:30 pm Eastern Time. During core hours, you should be reachable at your desk outside of your lunch break.

their lunch break. For example, an employee can work 6:30 a.m. to 3:30 p.m. All employees are expected to work 8 hours per day, inclusive of a paid lunch break of one hour. All employees are encouraged to take a physical break from their workstation, every day during their lunch break.

Employees may also be expected to work such other hours as may be requested or required, from time to time. Employees hired on a part time basis will have schedules determined on a case by case basis.

Employees are required to notify Martina Piasecki, in advance, of planned days away from the office.

Principle information

Unplanned absence guideline

In the case of emergencies or unplanned absences, you should attempt to notify your team and project manager as well as anyone else who will be affected by your absence.

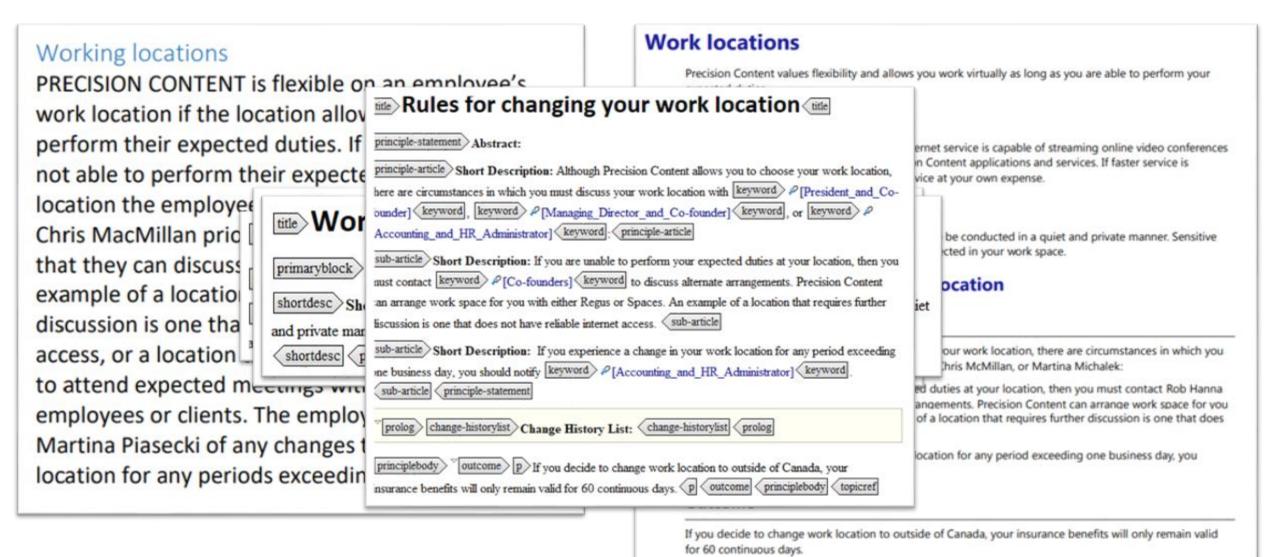


Structure

- Microcontent must use predictable patterns and language
- Structured authoring
 - Systematic labelling
 - Modular, topic-based architecture
 - Constrained writing environments
 - Separation of content and form



What it means to be "unstructured"





Topic title begins with noun

Employee Health Benefits

PRECISION CONTENT offers employee health benefits through Sun Life Financial. Full-time employees who have been employed by PRECISION CONTENT over three months become eligible for employee health benefits. PRECISION CONTENT pays a portion of the monthly premiums.

Employees can find specific details about their coverage at Customer Care 1-800-361-6212.

Employees must contact Customer Care to set up access to the client sign-in page.

https://www.sunnet.sunlife.com/signin/mysunlife/home.wca

Topic title begins with verb

Set up benefits

Purpose

To activate your health benefits, you need to follow the procedure.

Procedure

Attention If you don't complete the procedure within 30 days of becoming eligible, you will be required to provide proof of good health.

- 1. Fill out the Group Benefit Enrollment Form , and email it to the Accounting and HR Manager.
- 2. Send a hard copy of the form to the Accounting and HR Manager:

Related links

- *⇒ Group Benefit Enrollment Form*
- ⇒ Sun Life client sign in page



- Microcontent must be easily relatable to other content
- Microcontent is designed to fit within a larger ecosystem of information





▼ ■ Your work environment

- <title> Your work environment
- Work environment
 - ▼ Mork hour expectations
 - Time tracking requirement
 - Work hour limits
 - Overtime policy
 - Time-in-lieu policy
 - Use time-in-lieu for time off
 - Work locations
 - Home internet requirement
 - Work space requirement
 - Rules for changing your work location
 - In-person company meeting policy
 - Collaboration tool requirement

```
1 🗏 kmap format="ditamap" id="map-279" scope="local" type="map"
          <title>Your work environment</title>
 3 ⊟
         <topicref format="dita" href="HRFT W0LK9N 00 WorkEnvironment.dita" scope="local" type="reference">
 4 ⊟
             <topicref format="dita" href="HRFT PRI W04869 00 WorkHourExpectations.dita" scope="local" type="principle">
                 <topicref format="dita" href="HRFT PRI TOADF4 00 TimeTrackingRequirement.dita" scope="local" type="principle"/>
                 <topicref format="dita" href="HRFT PRI W09446 00 WorkHourLimits.dita" scope="local" type="principle"/>
                 <topicref format="dita" href="HRFT REF 00F30E 00 Overtime.dita" scope="local" type="reference"/>
                 <topicref format="dita" href="HRFT PRI T0113C 00 Time-In-LieuPolicy.dita" scope="local" type="principle"/>
                 <topicref format="dita" href="HRFT TSK U0113C 00 UseTime-in-lieuForTimeOff.dita" scope="local" type="task"/>
10
             </topicref>
             <topicref format="dita" href="HRFT_REF_W0506B_00_WorkingLocations.dita" scope="local" type="reference">
11 ⊟
12
                 <topicref format="dita" href="HRFT REF H0371B 00 HomeInternetRequirement.dita" scope="local" type="reference"/>
13
                 <topicref format="dita" href="HRFT REF H07BC3 00 WorkSpaceRequirement.dita" scope="local" type="reference"/>
                 <topicref format="dita" href="HRFT_PRI_R0C1E8_00_RulesForChangingYourWorkingLocat.dita" scope="local" type="principle"/>
                 <topicref format="dita" href="HRFT_PRI_I0F93A_00_In-PersonCompanyMeetingPolicy.dita" scope="local" type="principle"/>
                 <topicref format="dita" href="HRFT PRI C08EB2 00 CollaborationToolRequirement.dita" scope="local" type="principle"/>
17
             </topicref>
         </topicref>
     </map>
```



Four Principles of Intelligent Microcontent



Focus



Function



Structure



Context





Making the Migration



Stakeholder interviews

We identified other topics we would want through stakeholder

interviews

- Who we interviewed:
 - HR Director
 - President
 - Accounting and HR Manager
 - Managing Director



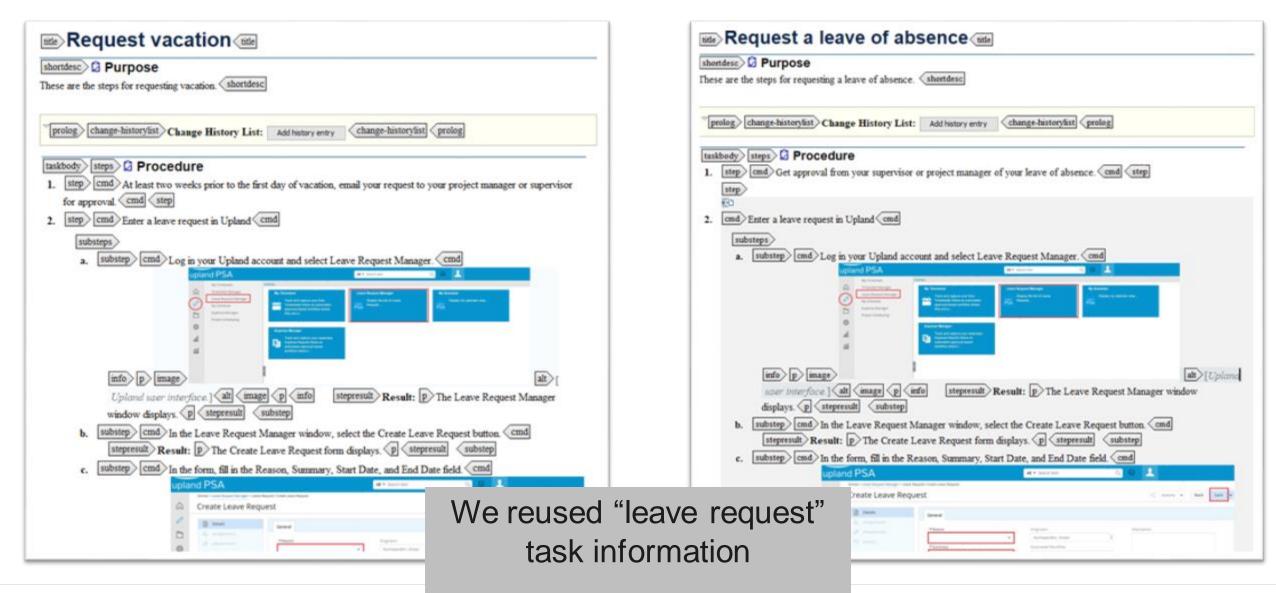


Reuse analysis

- We analyzed our content for places where we could leverage DITA's reuse features
- The employee handbook content set was small enough that we could do this easily
- For large content sets, reuse analysis should be done programmatically

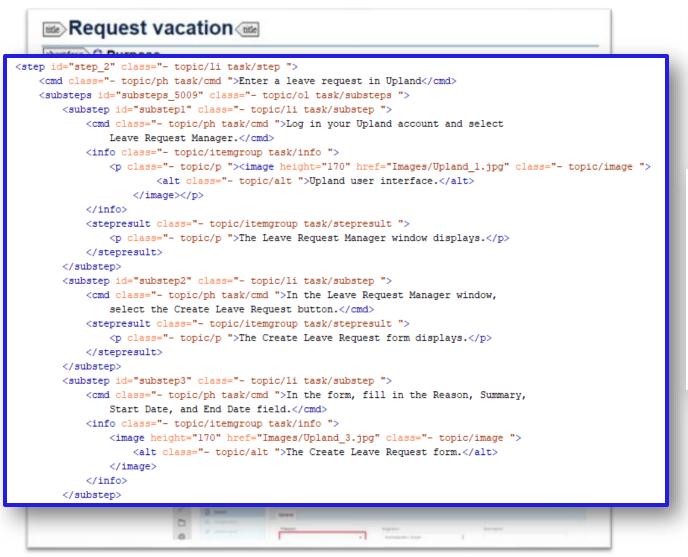


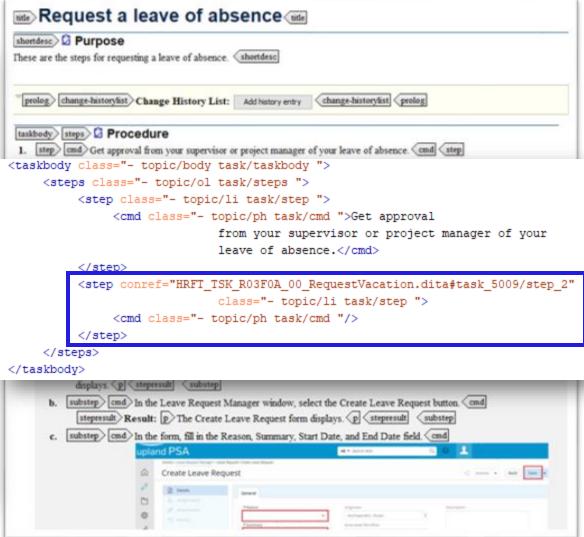
How DITA's reuse features work





How DITA's reuse features work

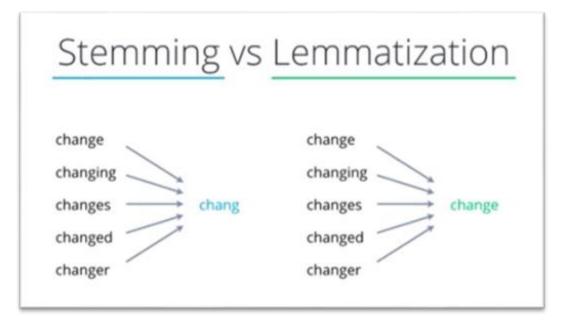






Reuse analysis methods

If you want	then the solution is a
exact matches	custom XQuery script with hash functions
fuzzy matches	third party content analysis tool such as DCL, Stilo





What does the reuse analysis script do?

Generate a database from the content set

Map text strings to the number of times they appear

Gather information of each text string (such as its file name, manual name, and word count, etc.)

Generate a report in CSV format



Opting-into employee benefits

Income tax documents

Employee referral bonus amounts

Pay date

Bonuses

Terminations

Policies for resolving payroll errors

Refer an employee

Employee benefit eligibility

Resignations

Employee referral bonus pay schedule

Opting-out of employee benefits

Exit interviews

Pay stubs



Employee information

Payment information

Opting-into employee benefits

Income tax documents

Employee referral bonus amounts

Pay date

Bonuses

Terminations

Policies for resolving payroll errors

Refer an employee

Employee benefit eligibility

Resignations

Employee referral bonus pay schedule

Opting-out of employee benefits

Exit interviews

Pay stubs



Opting-into employee benefits

Income tax documents

Employee referral bonus amounts

Pay date

Bonuses

Terminations

Policies for resolving payroll errors

Refer an employee

Employee benefit eligibility

Resignations

Employee referral bonus pay schedule

Opting-out of employee benefits

Exit interviews

Pay stubs



Employee exit

Employee benefits

Payroll and compensation

Opting-into employee benefits

Income tax documents

Employee referral bonus amounts

Pay date

Bonuses

Terminations

Policies for resolving payroll errors

Employee referral policy

Refer an employee

Employee benefit eligibility

Resignations

Employee referral bonus pay schedule

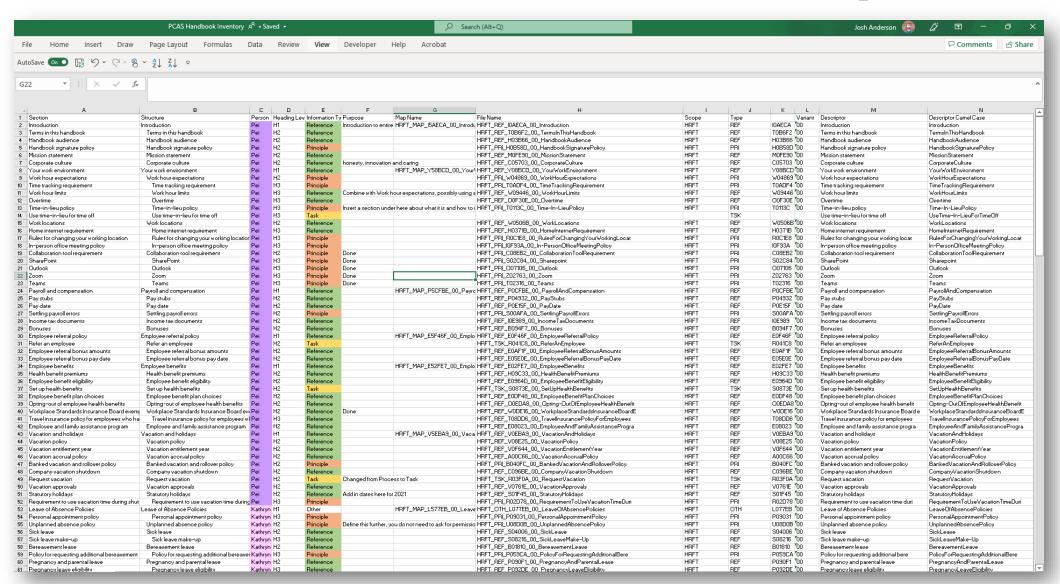
Opting-out of employee benefits

Exit interviews

Pay stubs



We drafted an outline for all our topics





Columns in our outline

- Section
- Person
- Heading Level
- Information Type
- Purpose
- Map Name

- File Name
 - Scope
 - Type
 - Variant





Example topic in our outline

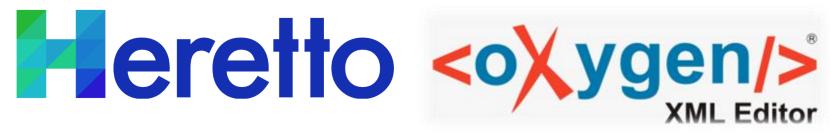
Section	Work hour limits
Person	Pei
Heading Level	H3
Information Type	Reference
Purpose	Give the maximum hours employees can work per day.
Map Name	HRFT_MAP_Y58BCD_00_YourWorkEnvironment.ditamap
File Name	HRFT_REF_W09446_00_WorkHourLimits.dita



How we tackled this as a team

- For each topic in our outline, we created a DITA file in our component content management system (CCMS)
- We divvied our topics among the three of us using DITA maps
- Each team member edited and rewrote content in Oxygen XML Editor
- Our CCMS let us set up automatic workflows







Content suitable for a CCMS....

- Has a lifecycle
- Receives incremental changes
- Has a required workflow
- Is the responsibility of a team
- Is assembled from smaller pieces
- Has statuses that need to be tracked (e.g., draft, expired, active)
- Will be reused
- Could be translated



How information types inform writing style

- Semantic structure of topics and blocks
- Rules for titles
- Rules for short descriptions
- Writing style for voice and tense
- Specific authoring models



Strategic rewrites

In-person office meetings

Employees living less than 60 km from the PRECISION CONTENT headquarters at 7111 Syntex Dr. Mississauga are expected to be able to attend meetings as needed at headquarters or other facilities any work day at their own expense.

Employees living between 60-120 km from the PRECISION CONTENT headquarters at 7111 Syntex Dr. Mississauga are expected to be able to attend meetings as needed at headquarters or other nearby facilities up to twice per month at their own expense.

Employees living beyond 120 km from the PRECISION CONTENT headquarters at 7111 Syntex Dr. Mississauga are expected to be able to attend meetings, including training, as needed at headquarters or other nearby facilities up to six times per year at their own expense. These employees are required to submit receipts for food and lodging to receive reimbursement for other related travel expenses.

Employees required to travel more frequently to the PRECISION CONTENT headquarters than otherwise stipulated are required to submit expense claims for mileage at \$0.555/km for reimbursement of travel expenses.

Travel distance is always calculated by Google Maps using the most direct route to PRECISION CONTENT headquarters. Highway tolls for trips to the office are not reimbursable.

In-person company meeting policy

You are required to attend in-person company meetings from time-to-time. The time and location of inperson meetings will be provided to you as soon as available.

- The expected frequency of in-person meetings is based on the distance between your location and the meeting location.
- Depending on the distance of travel, Precision Content may reimburse reasonable travel, meal and lodging expenses.

Applicability

Based on your location, the expected frequency of your in-person meetings may differ.

Table 2: Expected frequency of in-person meetings

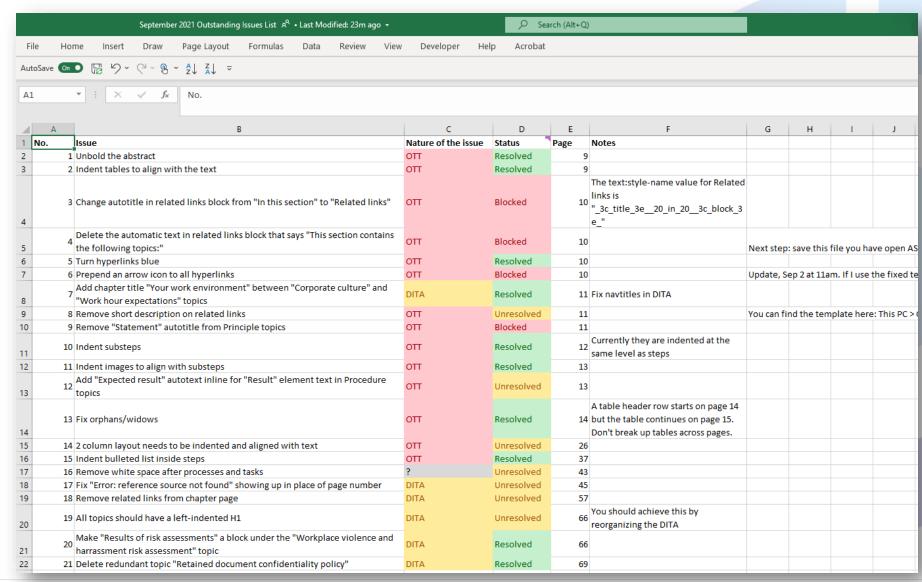
If you live	You are expected to attend in-person meetings
less than 60 km from the meeting location,	on any workday at your own expense.
60 - 120 km from the meeting location,	up to twice per month at your own expense.
120 - 500 km from the meeting location,	up to six times per year at your own expense.
beyond 500 km from the meeting location,	as needed at the expense of Precision Content.

Related links

□ In-person meeting expense reimbursement policies on page 50



- We then moved our issues into a spreadsheet
- Here, we categorized issues by nature and status





Content governance

- Originally, there wasn't a clear strategy in place for updating or maintaining the content
 - All content updates were sent to one specific employee
- What we needed from a governance strategy
 - Regularly scheduled revisions
 - Clearly defined roles



Yearly meetings

- We established yearly meetings with HR and senior leadership
- Changes to the employee handbook can be proposed at any time
- Every year, we review the proposals and choose which ones to implement
- Changes can happen immediately if they are the result of federal or provincial law

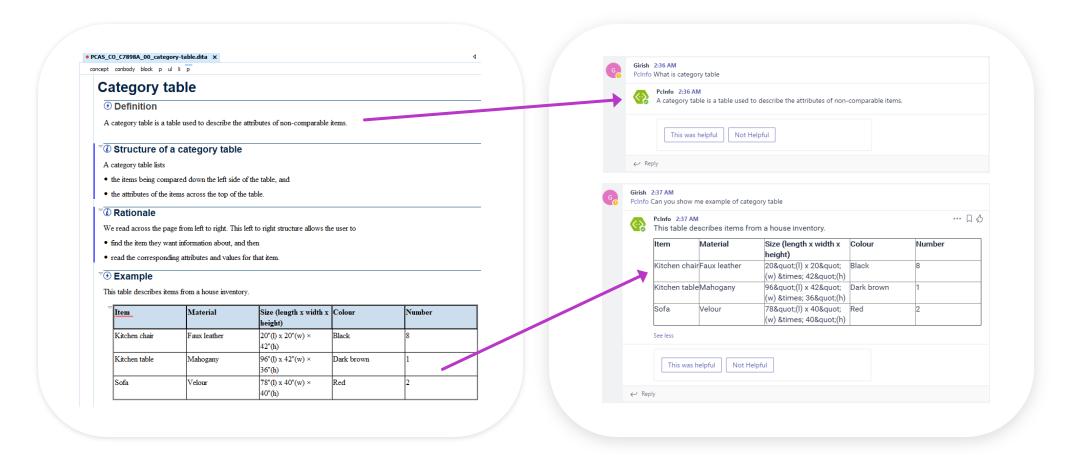


Unlocked benefits of microcontent

- Content is ready to be quickly transformed into other formats
- We can "Create Once, Publish Everywhere" (COPE)
- Topics can be reused rather than rewritten
- Our content can act as a "single source of truth"
- The CCMS allows for much smoother collaboration
- Automated workflows makes governing the content lifecycle easier
- Our content is now written according to a (micro)content standard
- Our microcontent can fuel Al-powered conversational interfaces

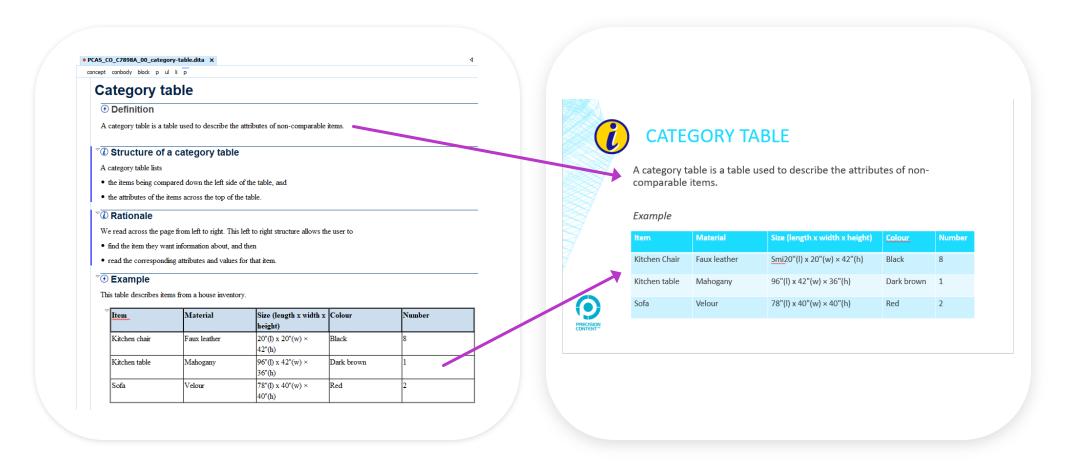


Microcontent to Chatbot





Microcontent to PowerPoint





Conclusion

By paying close attention to the

- focus
- function
- structure, and
- context

of the content, we have improved its usability and potential.





Thank you!



Come work with us at PrecisionContent.com/careers

