

DOCUMENT

STRUCTURING

TECHNIQUES

Considerations

for Technical Writers

Terry Snyder for Anita Kanakis, United Airlines

Creating Smart Data Requires “Smarter” Technical Writers

- Beyond content and format . . .
- How to author within structure
- Which elements (text block types) are best for presenting information
- What metadata and links add value
- How to make a document parse
- Writing for maximum reusability
- Identifying required granularity

How Technical Writers Get Smarter

- Learn benefits of structure and markup language
- Take courses in structuring documents
- Consistently employ the right user tools to build structured documents
- Read the brilliantly enlightening book, *“Aviation Information Management – From Documents to Data”*

Essential User Tools

- Comprehensive Writing Standards
- Effective Publishing Process
- Structure Rules
 - Via Authoring Application (SGML, XML)
 - Applying structure discipline concepts while waiting for conversion to ML

Writing Standards

- Proper tense, voice, and formality
- Approved acronyms, definitions, and terminology
- Conventions with strong business cases
- Consistent with emerging industry standards

Publishing Process

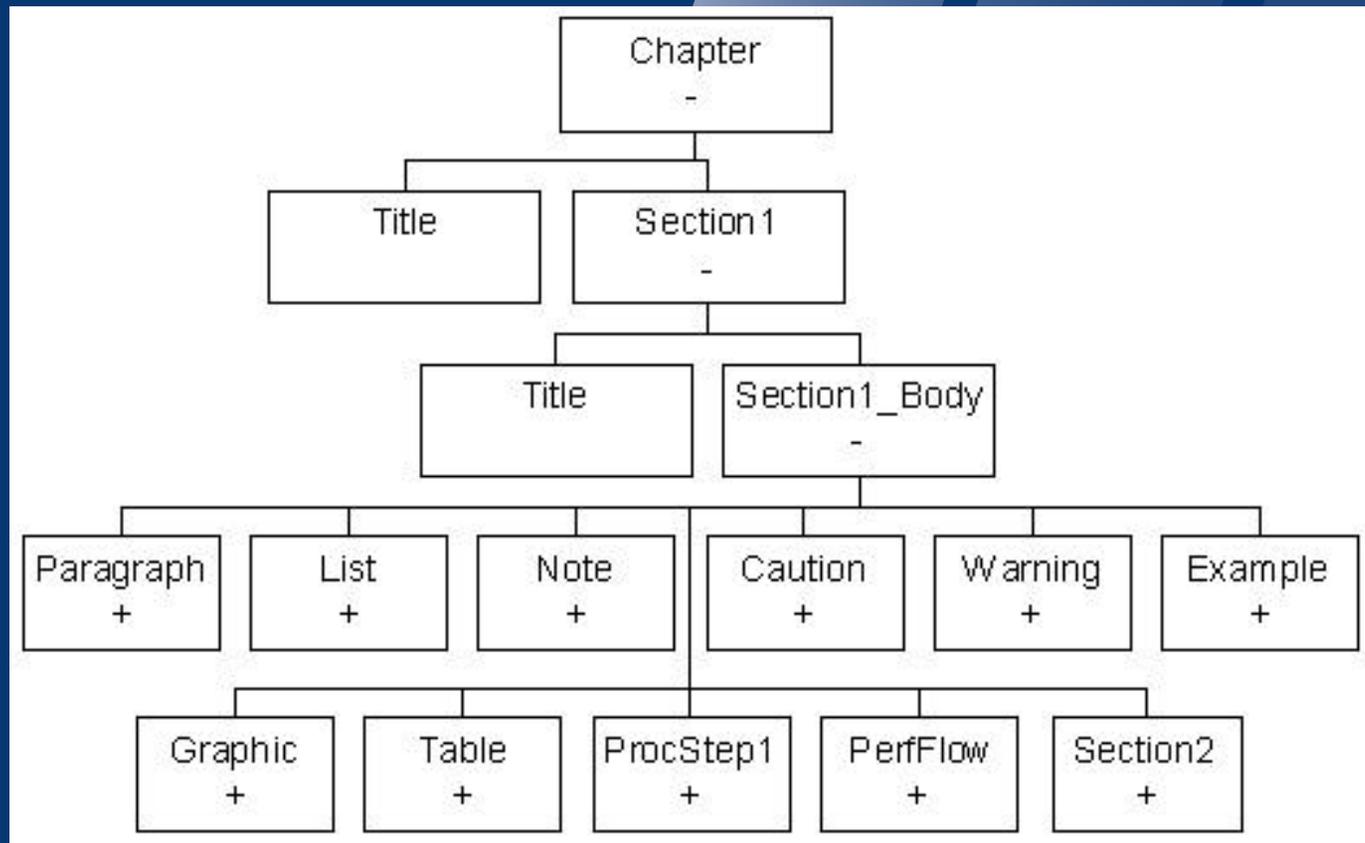
- Clearly mapped workflow
- Measurably effective
- Well-designed tools and task checklists
- Data maps to appropriate stakeholders
- Clearly defined roles and responsibilities
- Sufficient training and technical support

Structure Rules

- Structure diagram and hierarchies based on intuitive outline concepts
- A place for everything, and everything in its place
- Manageable number of clearly defined elements, attributes, and links
- Consistent contextual relationships between elements ; “parent-child”

Structure Diagrams

—Identify valid options



Proper Element Location

- Helps identify correct sequencing of information and missing titles or content

Clearly Defined Elements and Attributes

—Aid author in writing using appropriate elements

Element: **EmergencyProc**

Use: This element is used in the both EICAS and Non EICAS Procedure elements

Description: Container for an Emergency Procedure which is continued from the QRC.

Attribute: **EICAS**

Description: This attribute is used to identify if a procedure is EICAS or non-EICAS. A choice of 'yes' or 'no' is required

Elements

Chapter

Lis

t Condition

Challenge

Adjustment

Warning

Note

Procedure

Graphic

RefLink

PerfFlow

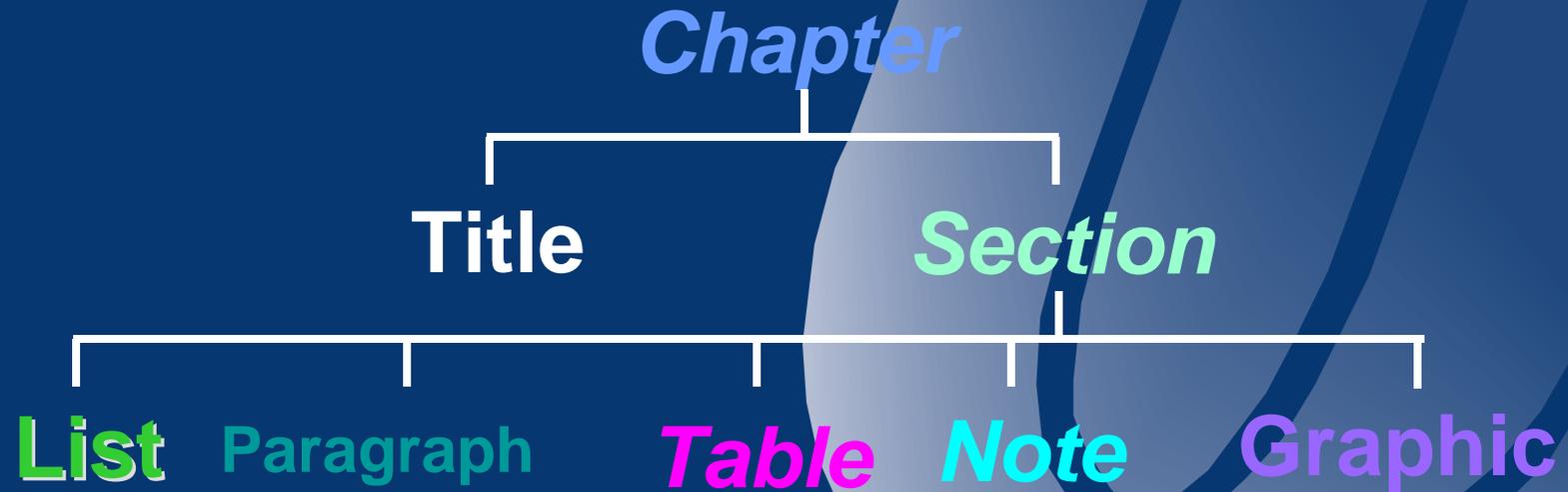
ListItem

Table

System

Pushback

Elements



Attributes

- Supplementary information about elements
- Consider potential opportunities
- Use judiciously – only when true value is added – to avoid wasted metadata storage

Attribute Types

User Note

Conditional

Model Effectivity

Security

Training Curriculum

ASPScod

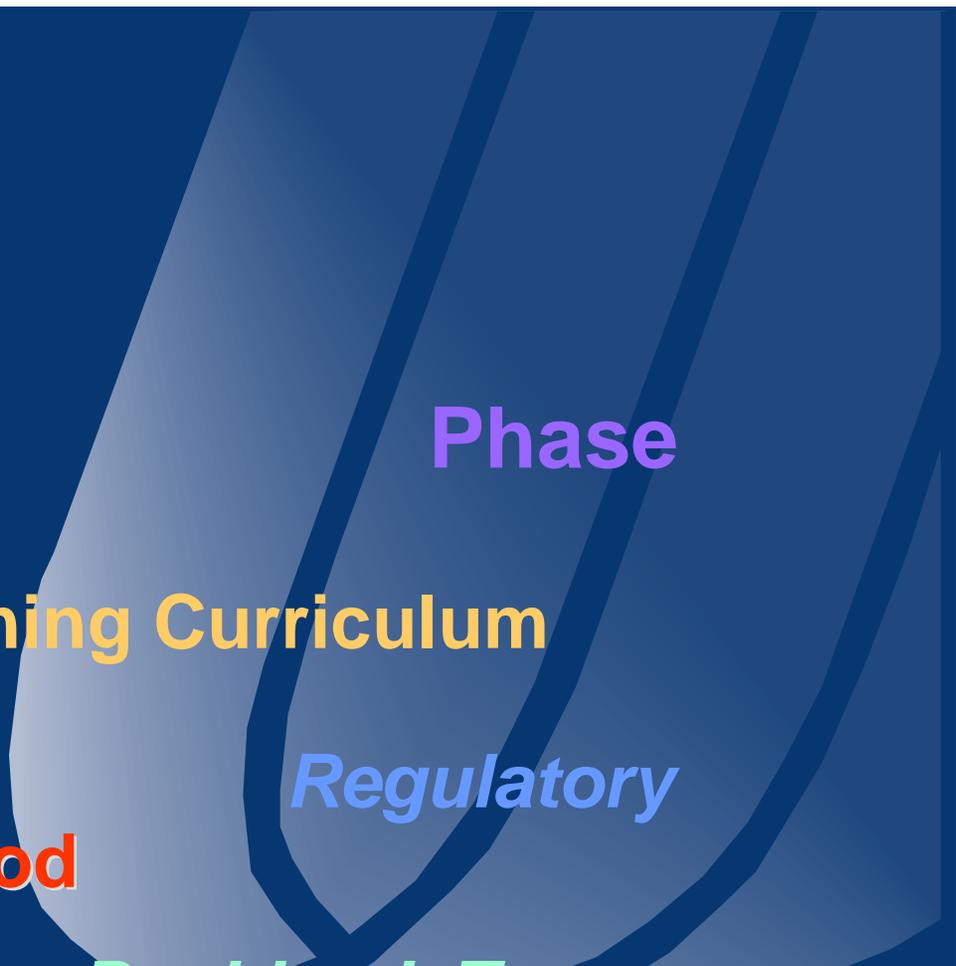
e

Pushback Type

Phase

Regulatory

Version



Links

—Directional/Cross-reference

see Hydraulics Chapter

FAR 121.589

See B777 Flight Manual

FAA

See MEL

Ops Specs

Tech Writer Resistance?

- As previously illustrated, implementation curve is steep, involves substantial investment of time and effort at the start
- When benefits of maintaining and revising structured documents are known, authors generally embrace the technology

Summary

- It is worthwhile to invest in building useful and usable tools for the author to work effectively in a structured environment
- The payoff is efficient authors producing timely, quality, reusable, and easily managed information to their customers