INTERNATIONAL STANDARD

ISO 14289-1

Second edition
2014-12-15

Document management applications — Electronic document file format enhancement for accessibility —

Part 1:
Use of ISO 32000-1 (PDF/UA-1)

Applications de la gestion de documents — Amélioration de format du fichier du document électronique pour l'accessibilité —

Partie 1: Utilisation de l'ISO 32000-1 (PDF/UA-1)

PDF association

Tagged PDF Best Practice Guide: **Syntax**

For developers implementing ISO 14289-1 (PDF/UA)

Version 1.0 (June 2019)

PDF association

Matterhorn Protocol 1.1
PDF/UA Conformance Testing Model

PDF

PDF Days Online 2021

Accessible PDF

How to tag content the right way

Contents

- About me / PDF/UA TWG

- Situation: PDF/UA and its Guidelines in relation to meaningful tagging

- Related documents by the PDF Association

  - The Matterhorn Protocol – what it is and how does it help?

  - Tagged PDF Best Practice Guide: Syntax – what it is and how does it help?

- Some real word examples and how to deal with them

- Future development

- Questions?

About me

- Klaas Posselt / Germany

- Consultant

- Community Chair
  PDF/UA Technical Working Group (TWG),
  with Matthew Hardy

About PDF/UA TWG

- 1 of 12 TWGs at PDF Association

- PDF/UA TWG Overview:
  https://www.pdfa.org/community/pdf-ua-technical-working-group/

- Get in touch: pdfua@pdfa.org

Situation

- We do have:
  - PDF [1.7] (ISO 32000-1)
  - Tagged PDF [chapter 14.8]
- Tagged PDF can be used for multiple purposes, e.g.:
  - Accessibility
  - Content reuse
- No precise description how an accessible PDF should look like

Situation

- Solution: PDF substandard PDF/UA-1 (ISO 14289-1)
  [UA = Universal Accessibility]

- Definition how to use 32000-1 for accessible PDFs

- Core clause 7.1, paragraph 2:
  "Content shall be marked in the structure tree with semantically appropriate tags in a logical reading order"

Why PDF/UA is not enough

- PDF/UA based on PDF

- PDF standard itself and PDF/UA:

  - Do not cover all needs / issues

  - Both are not precise in all areas

- Example, description of Tag <Sect> (Section):
  "*A container for grouping related content elements.*"
  (PDF 32000-1, Table 333)

Supporting documents

- **Matterhorn Protocol 1.1**
  (https://www.pdfa.org/resource/the-matterhorn-protocol/)

- **Tagged PDF Best Practice Guide: Syntax**
  (https://www.pdfa.org/resource/tagged-pdf-best-practice-guide-syntax/)

- Intended for software developers and document testers

Matterhorn Protocol

- Testing reference / checklist

- 31 checkpoints, 136 failure conditions

- Divided into M (Machine) / H (Human); Examples:

  - Failure conditions 06-001 / 06-004

  - Failure condition 13-008

Tagged PDF Best Practice Guide

- Intended to help understand the syntactical characteristics of tagged PDF files – compressed into one document

- Detailed explanation of tagging syntax; Examples:
  - Empty tags
  - Footnotes

- And Attributes and properties; Example:
  - ActualText

Real word examples

We like to have a footnote.

Here you go[1]!

_____

1   I am a footnote

PDF
PDF Days Online 2021

I AM A HEADING

I am a normal paragraph, tagged as <P>.

PDF association

- How to tag a documents title?
  - <Title>?
  - <H1>?
  - <P>?

PDF 32000-1:2008

First Edition
2008-7-1

Document management — Portable document format — Part 1: PDF 1.7

You need input?

- PDF/UA Reference Suite 1.1
  https://www.pdfa.org/resource/pdfua-reference-suite/

- PDF Accessibility Liaison Working Group (LWG)
  https://www.pdfa.org/community/pdf-accessibility-liaison-working-group/

  - Development of set of Techniques for PDF accessibility / examples

  - Membership open to AT developers, testers, accessibility subject matter experts

Future development

- PDF/UA-2 (14289-2)
  - Based on PDF 2.0
  - E.g. new tags
  - Issues addressed (e.g. <Caption>)
- Still work in progress strongly forced by the PDF/UA TWG (association with ISO TC 171 SC 2 WG 9)

Questions?

- Thanks for you attention