# Metadata in EPUB:
# The Rabbit Hole is Deeper Than You Think

## @jtallent          @firebrandtech

# ONIX for eBooks

```
<ProductForm>EA</ProductForm>
<ProductFormDetail>E101</Product
  FormDetail>
<ProductFormDescription>EPUB</Pr
  oductFormDescription>
```

# `<ProductForm>`

EA = Digital content delivered electronically (delivery method unspecified)

EB = Digital content available both by download and by online access

EC = Digital content accessed online only

ED = Digital content delivered by download only

`<ProductFormDetail>`

E101 = EPUB

E116 = Amazon Kindle

E141 = iBook

E142 = ePIB

E145 = B&N Page Perfect

# `<ProductFormDetail>`

E200 = Reflowable

E201 = Fixed format

E202 = Readable offline

E203 = Requires network connection

E204 = Content removed

`<ProductFormDetail>`

E210 = Fixed-format Landscape

E211 = Fixed-format Portrait


E222 = 4:3 aspect ratio

E223 = 3:2 aspect ratio

E224 = 16:10 aspect ratio

E225 = 16:9 aspect ratio

# `<ProductFormFeature>`

Format version

Validators used

Accessibility features

```
<ProductFormFeature>
<ProductFormFeatureType>10
  </ProductFormFeatureType>
<ProductFormFeatureValue>101B
  </ProductFormFeatureValue>
</ProductFormFeature>
```

101A = EPUB 2.0.1

101B = EPUB 3.0

101C = EPUB 3.0.1

116B = Kindle KF8

```xml
<ProductFormFeature>
<ProductFormFeatureType>16</ProductFormFeatureType>
<ProductFormFeatureDescription>EPUBCheck</ProductFormFeatureDescription>
<ProductFormFeatureValue>4.0.1</ProductFormFeatureValue>
</ProductFormFeature>
```

```xml
<ProductFormFeature>
<ProductFormFeatureType>09
  </ProductFormFeatureType>
<ProductFormFeatureValue>11
  </ProductFormFeatureValue>
</ProductFormFeature>
```

11 = Table of contents navigation

12 = Index navigation

13 = Reading order

14 = Short alternative descriptions (alt text)

15 = Full alternative descriptions (ARIA)

16 = Visualised data also available as non-graphical (often tabular) data

17 = Accessible math content (MathML)

19 = Print-equivalent page numbering

20 = Synchronised pre-recorded audio (SMIL)

22 = Language tagging provided

96 = Publisher's web page for detailed accessibility information (in ProductFormFeatureDescription)

97 = Compatibility testing description (in ProductFormFeatureDescription)

99 = Publisher contact for further accessibility information (in ProductFormFeatureDescription)

11 = Table of contents navigation

13 = Reading order

14 = Short alternative descriptions (alt text)

15 = Full alternative descriptions (ARIA)

19 = Print-equivalent page numbering

22 = Language tagging provided

96 = Publisher's web page for detailed accessibility information (in ProductFormFeatureDescription)

97 = Compatibility testing description (in ProductFormFeatureDescription)

99 = Publisher contact for further accessibility information (in ProductFormFeatureDescription)

# OPF Metadata

```xml
<dc:title id="en_title" xml:lang="en-us">The Book of Texas</dc:title>
    <meta refines="#en_title" property="title-type">main</meta>
    <meta refines="#en_title" property="file-as">Book of Texas, The</meta>
<dc:identifier id="uid">9783141592658</dc:identifier>
    <meta refines="#uid" property="identifier-type"
    scheme="xsd:string">isbn</meta>
    <meta property="dcterms:modified">2016-04-01T10:02:00Z</meta>
<dc:language>en-us</dc:language>
<dc:date>2016-03-20T15:18:00Z</dc:date>
<dc:creator id="aut">John A. Lomax</dc:creator>
    <meta refines="#aut" property="role" scheme="marc:relators">aut</meta>
    <meta refines="#aut" property="file-as">Lomax, John A.</meta>
<dc:rights xml:lang="en-us">Copyright 2016 John A. Lomax</dc:rights>
<dc:publisher xml:lang="en-us">Flashpoint Books</dc:publisher>
<meta property="rendition:spread">auto</meta>
<meta property="ibooks:specified-fonts">true</meta>
<meta property="ibooks:version">1.1</meta>
<meta property="schema:accessibilityFeature">alternativeText</meta>
<meta property="schema:accessibilityFeature">readingOrder</meta>
<meta property="schema:accessibilityFeature">structuralNavigation</meta>
<meta property="schema:accessibilityFeature">tableOfContents</meta>
<meta property="schema:accessibilityFeature">unlocked</meta>
<meta property="schema:accessibilityHazard">noFlashingHazard</meta>
<meta property="schema:accessibilityHazard">noSoundHazard</meta>
<meta name="cover" content="coverimage" />
<link rel="onix-record" href="/metadata/9783141592658.xml"/>
```

```
<dc:title id="en_title"
  xml:lang="en-us">The Book of
  Texas</dc:title>
<dc:identifier
  id="uid">9783141592658</dc:iden
  tifier>
<dc:language>en-us</dc:language>
<meta
  property="dcterms:modified">201
  6-04-01T10:02:00Z</meta>
```

```xml
<dc:title id="en_title" xml:lang="en-us">The Book of Texas</dc:title>
  <meta refines="#en_title" property="title-type">main</meta>
  <meta refines="#en_title" property="file-as">Book of Texas, The</meta>
<dc:identifier id="uid">9783141592658</dc:identifier>
  <meta refines="#uid" property="identifier-type" scheme="xsd:string">isbn</meta>
  <meta property="dcterms:modified">2016-04-01T10:02:00Z</meta>
<dc:language>en-us</dc:language>
```

```xml
<package version="3.0"
  xmlns="http://www.idpf.org/2007
  /opf" unique-identifier=
  "bookid">

<metadata ...>

<dc:identifier id="bookid">
  urn:uuid:390876DF-0369-47FA-
  93B9-06317FD92423
  </dc:identifier>

<dc:identifier>9783141592658
  </dc:identifier>
```

```xml
<package version="3.0"
  xmlns="http://www.idpf.org/2007
  /opf" unique-identifier=
  "bookid">

<metadata ...>

<dc:identifier id="bookid">
  9783141592658</dc:identifier>

<meta refines="#bookid"
  property="identifier-type"
  scheme="xsd:string">isbn</meta>
```

```xml
<dc:date>2016-03-
   20T15:18:00Z</dc:date>
<dc:creator id="aut">John A.
   Lomax</dc:creator>
   <meta refines="#aut" property="role"
   scheme="marc:relators">aut</meta>
   <meta refines="#aut" property="file-
   as">Lomax, John A.</meta>
<dc:rights xml:lang="en-us">Copyright
   2016 John A. Lomax</dc:rights>
<dc:publisher xml:lang="en-
   us">Flashpoint Books</dc:publisher>
<dc:description xml:lang="en-us">Lorem
   ipsum...</dc:publisher>
```

```
<meta
  property="rendition:spread">aut
  o</meta>
<meta
  property="ibooks:specified-
  fonts">true</meta>
<meta
  property="ibooks:version">1.1</
  meta>
<meta name="cover"
  content="coverimage" />
```

```
<meta property="schema:accessibilityFeature">
  alternativeText</meta>
<meta property="schema:accessibilityFeature">
  readingOrder</meta>
<meta property="schema:accessibilityFeature">
  structuralNavigation</meta>
<meta property="schema:accessibilityFeature">
  tableOfContents</meta>
<meta property="schema:accessibilityFeature">
  unlocked</meta>
<meta property="schema:accessibilityHazard">
  noFlashingHazard</meta>
<meta property="schema:accessibilityHazard">
  noSoundHazard</meta>
```

alternativeText

audioDescription

braille

captions

ChemML

displayTransformabilit

enhancedAudio

highContrast

largePrint

latex

longDescription
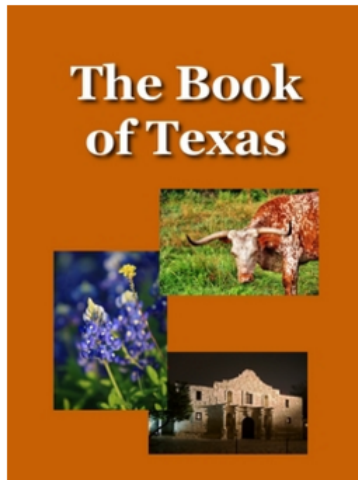
MathML

resizeText

signLanguage

structuralNavigation

tactileGraphic

tactileObject

```
<link rel="onix-record"
  href="/metadata/9783141592658.x
  ml"/>


<link rel="onix-record"
  href="http://flashpointpub.com/
  metadata/9783141592658.xml"/>
```

# ✓ FlightDeck

**Files** **Handbook** **FAQ** **Pricing**

> **Re-Upload File**

# The Book of Texas

**File:** BookOfTexas_EPUB3_backwards_v2.0.3.epub

**Author:** John A. Lomax; Joshua Tallent

**Format:** EPUB 3 Reflowable

## Title Information

| | |
|---|---|
| Title: | The Book of Texas |
| File as: | Book of Texas, The |
| Subtitle: | |
| Identifier: | 9783141592658 |

ID Type: isbn 🗑 **+Add**

| | |
|---|---|
| Publication Date: | 2014-04-23 🗓 |

Date Modified: 2015-02-26T11:36:00Z

| | |
|---|---|
| Publisher: | eBook Architects |
| Language: | English (US) ▼ |

🗑 **+Add**

📊 **Stats**

✏️ **Metadata**

☑️ **Validation** ✓

✴️ **Best Practices** ✓

🚀 **Retailer Grid**

🗑 **Delete**   ⬇️ **Download**

## Creators

| Role: | | Name: | | File as: | | |
|---|---|---|---|---|---|---|
| Author ▼ | | John A. Lomax | | Lomax, John A. | 🗑 | |
| Book designer ▼ | | Joshua Tallent | | Tallent, Joshua | 🗑 | **+Add** |

## Contributors

Contributors whose contributions are secondary to those listed in creator elements should be named in contributor elements. The specifications have more information for both EPUB 2 and EPUB 3.

| Role: | | Name: | | File as: | | |
|---|---|---|---|---|---|---|
| ▼ | | | | Lastname, Firstna | 🗑 | **+Add** |

# Semantic Markup

<cite>

<section>

<article>

<figure>

```html
<figure>
<img aria-describedby="capt_image01"
  src="images/alamo.jpg" alt="The
  Alamo, San Antonio"/>
<figcaption>The Alamo, San Antonio
<aside class="hidden"
  id="capt_image01">The picture shows
  the Alamo as seen in the early 20th
  century. It is seen in grayscale with
  a wrought iron fence in the
  forefront.</aside>
</figcaption>
</figure>
```
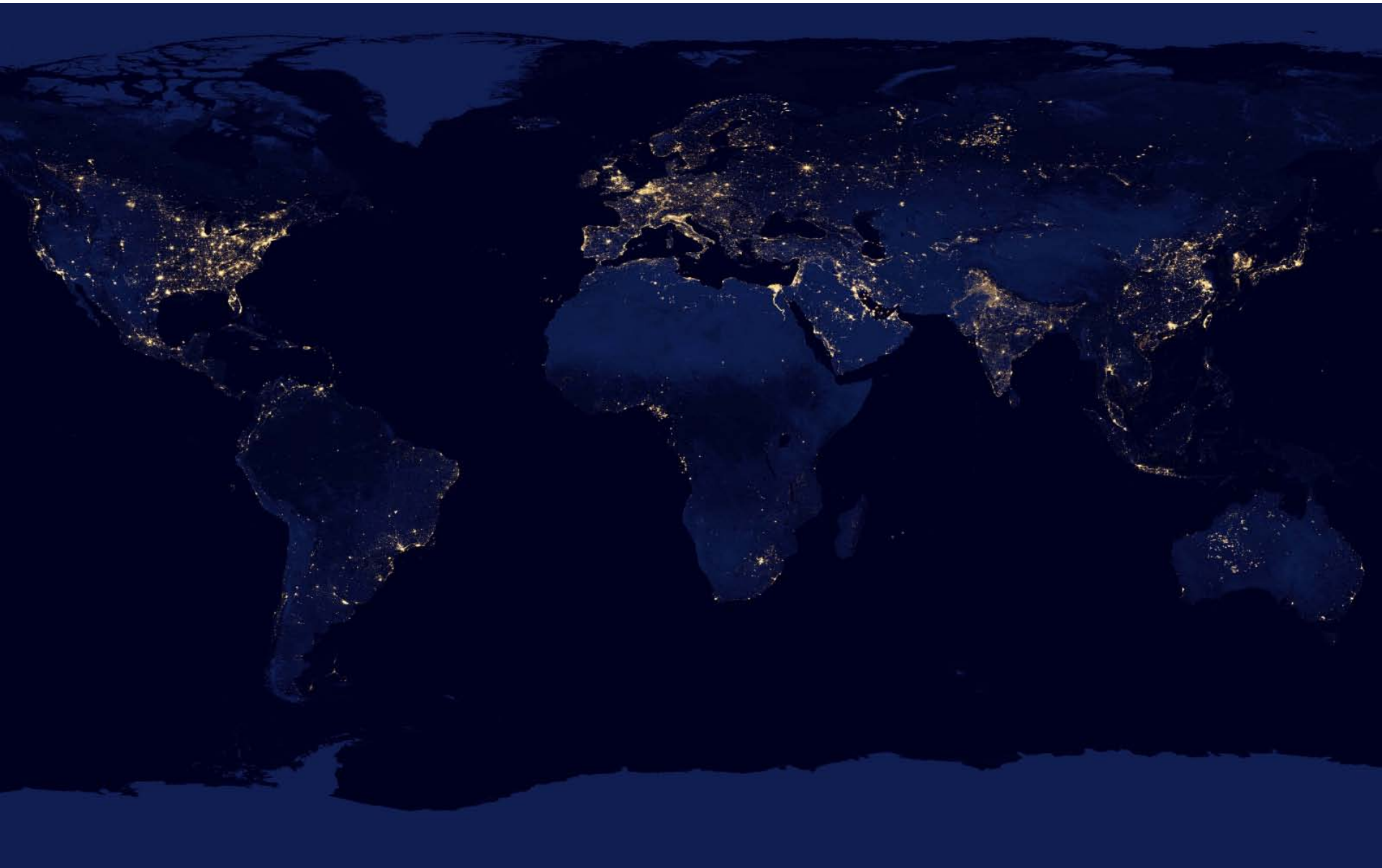
# epub:type

~~epub:type~~

role

Microdata

RDFa 1.1

[Schema.org Accessibility for OPF Files](#)

[ONIX Accessibility](#)

[Wiley Accessibility Information Page](#)

[ARIA Document Structure Roles](#)

[EPUB Structural Semantics Vocabulary](#)

[HTML Microdata](#)

[RDF 1.1 Primer](#)

[RDFa 1.1 + HTML](#)

**Joshua Tallent**

**Director of Outreach and Education**

joshua@firebrandtech.com

[www.firebrandtech.com](http://www.firebrandtech.com)

@jtallent          @firebrandtech

[https://github.com/jstallent/misc-files](https://github.com/jstallent/misc-files)