

EPUB3 Now!

Benefits of EPUB3

- audio/video
- Asian language text, right to left progression
- improved accessibility
- media overlays (Read Aloud)
- scripting and interactivity

Benefits of EPUB3

- semantic markup
- MathML
- Fixed Layout

Promise

One file

Benefits

- Less expensive to produce
- Facilitates changes, updates, corrections (in a single file)
- Facilitates quality control

Standards

- Followed by ereader manufacturers and ebook production people alike
- For differently-able ereaders, use progressive enhancement and graceful degradation

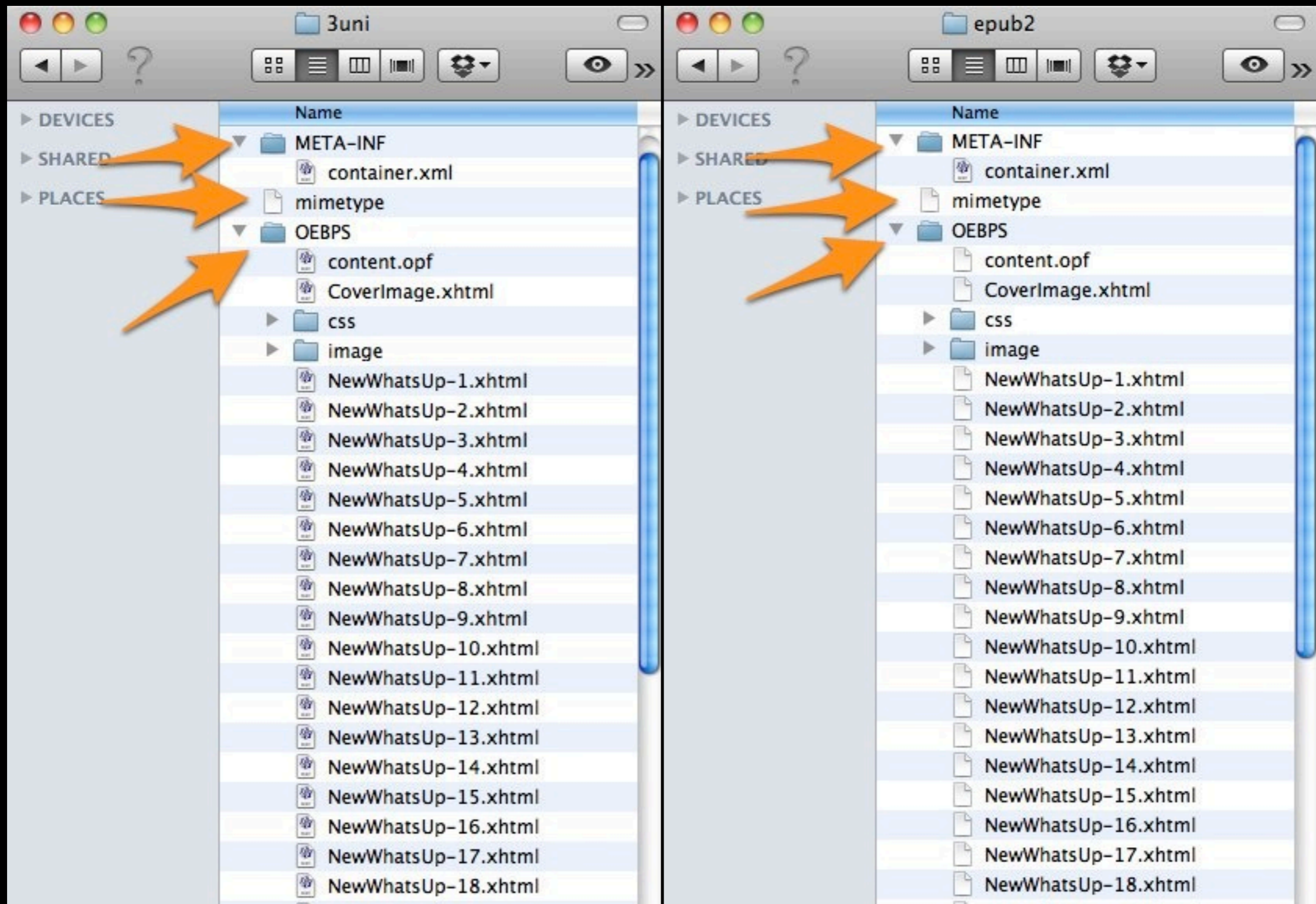
EPUB3 in old ereaders

- Designed to be backwards compatible
- What did use to work in an old ereader mostly still does.
- What didn't use to work still won't.

Minimal changes to convert to EPUB3

- Changes to content.opf file (including metadata)
- Navigation file (toc.ncx and new TOC)

Structure of EPUB3



Required changes to content.opf

- Version number in package element:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>  
<package xmlns="http://www.idpf.org/2007/opf"  
unique-identifier="bookid" version="3.0"  
prefix="ibooks:"  
http://vocabulary.itunes.apple.com/rdf/ibooks/vocabulary-  
extensions-1.0/"><!--new in 1.1-->
```

Required changes to content.opf

- dcterms:modified and dc:identifier

```
<meta property="dcterms:modified">2013-05-23T14:29:51Z</meta>  
<dc:identifier id="bookid">978-1-61150-033-2</dc:identifier>
```

Required changes to content.opf

- properties="nav" in NAV item manifest

```
<manifest>
  <item id="CoverImage" href="CoverImage.xhtml"
media-type="application/xhtml+xml" />
  <item id="NewWhatsUp" href="NewWhatsUp.xhtml"
media-type="application/xhtml+xml" />
  <item id="NewWhatsUpNAV" href="NewWhatsUpNAV.xhtml"
media-type="application/xhtml+xml" properties="nav" />
  <item id="NewWhatsUpCopy" href="NewWhatsUpCopy.xhtml"
media-type="application/xhtml+xml" />
```



Recommended changes to content.opf

- `properties="cover-image"` in cover image item manifest

```
<item id="What-sup-FrontCover-final1600.jpg"  
href="image/What%27sup-FrontCover-final1600.jpg" media-type="image/jpeg"  
properties="cover-image" />  
</manifest>
```



```
<meta name="cover" content="What-sup-FrontCover-final1600.jpg" />
```

Things you still need

- dc:title, dc: language

```
<dc:language>en</dc:language>  
<dc:title id="title">What's up with Catalonia?</dc:title>
```

More on dc:title

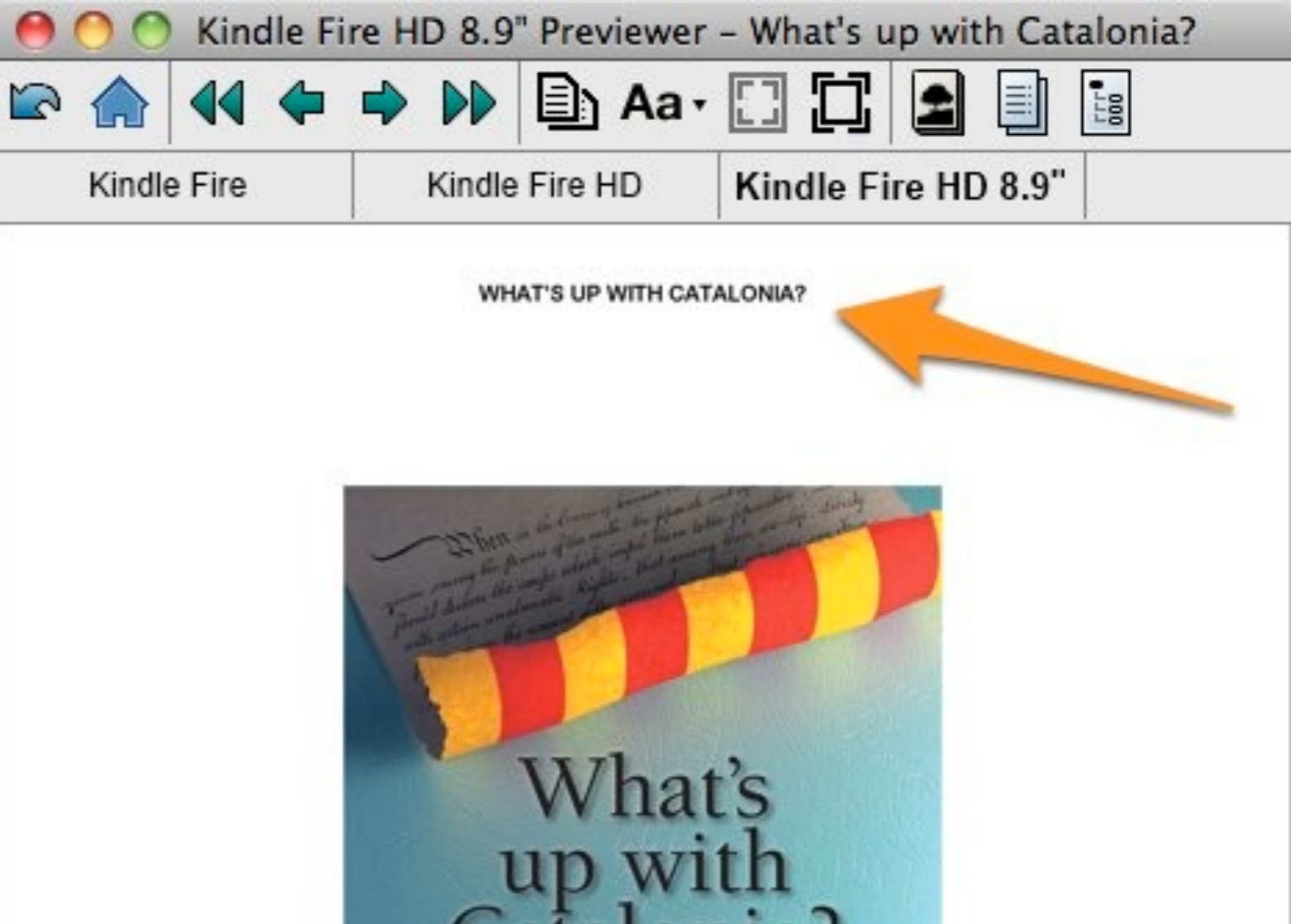
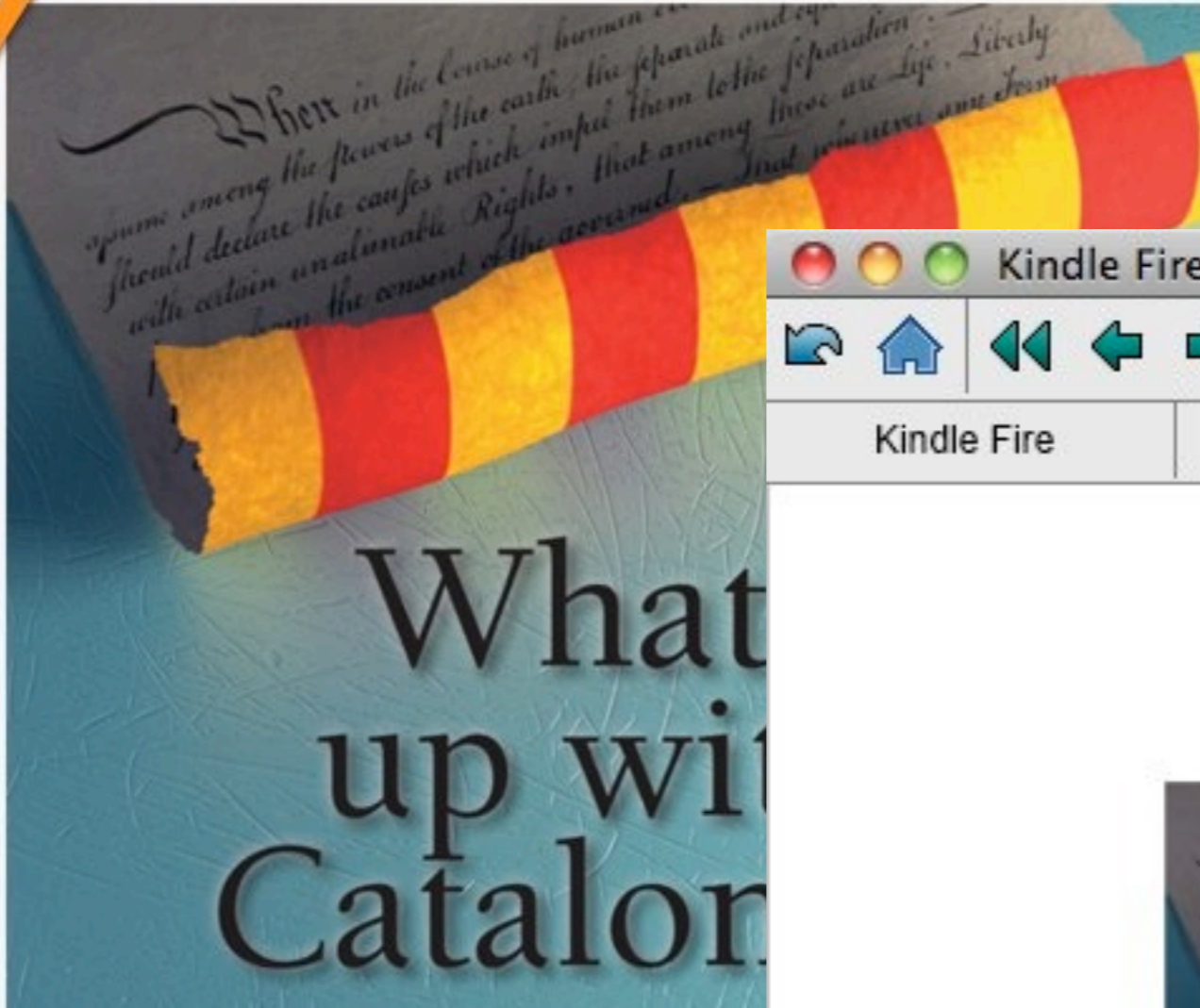
- dc:title has new possibilities
Once you've added an id, you can add information *about* the title. And create a subtitle, and information about it.

```
<dc:language>en</dc:language>  
<dc:title id="title">What's up with Catalonia?</dc:title>  
<meta refines="#title" property="title-type">main</meta>  
<dc:title id="subtitle">The causes which impel them to the  
separation</dc:title>  
<meta refines="#subtitle" property="title-type">subtitle</meta>
```


But...

- `dc:title`'s new possibilities are not yet supported, and ereaders don't know what to do with multiple `dc:title` elements

The causes which impel them to the separation



More metadata

- Other metadata is still recommended: dc:date, dc:publisher, etc.
- EPUB3 offers meta elements with refines attribute for adding additional metadata

You don't need...

- The <guide>

The only ereaders who used it now use EPUB3 navigation landmarks, which I'll get to shortly.

The new Navigation

- For both kinds of TOC
- Unlike toc.ncx, it's a regular XHTML file
- Regular content with some special formatting

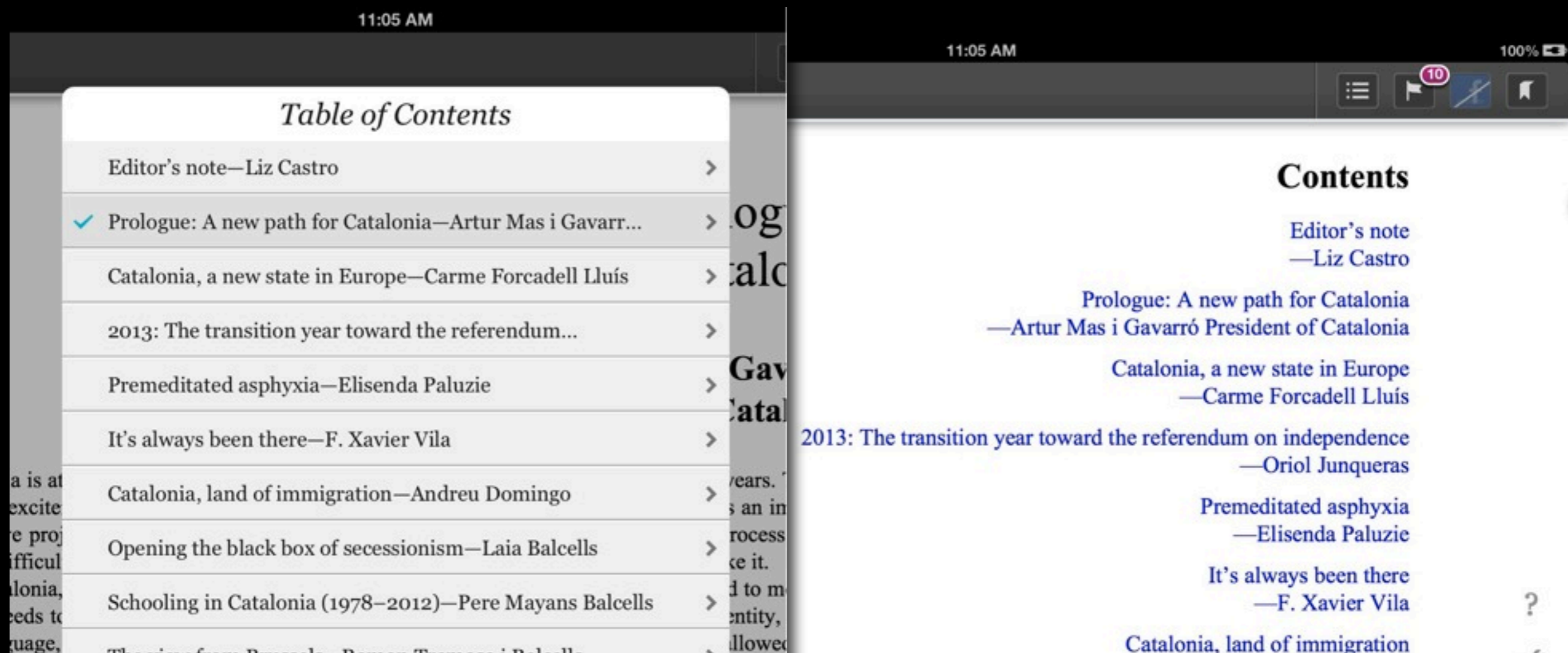
TOC in the Nav file

- Regular XHTML file, except for special formatting: nav is just the start

```
<body id="NewWhatsUp" xml:lang="en-US">
<nav id="toc" epub:type="toc">
  <h1>Contents</h1>
  <ol>
    <li><a href="NewWhatsUp-1.xhtml#toc_marker-1-1"
class="Toc-header1">Editor's note<br />-Liz Castro</a>
    </li>
```

The new TOC

- Used both for navigational system and as content right in ebook





What's up with Catalonia?

spending to meet the deficit objectives that are disproportionately, unjustly, and disloyally imposed by Spain, and that suffers the consequences of having to shoulder the return of a debt of massive dimensions. It faces this difficult and complex situation without any of the tools that states have at their disposal, and with the growing sensation that the state that we helped to construct neither protects us, nor defends us, nor respects us.

The lack of instruments and tools keeps us from being able to respond satisfactorily to our people's problems, despite the fact that we have the necessary capacity and resources to meet the current challenges. We must have the power to decide if we want to be responsible for our own decisions and if we want to continue within a state that wants to minimize our nationhood, stymie our economic growth, and interfere with the maintenance of our well-being.

Therefore, during the legislature that has just begun in Catalonia, we Catalans will be called to the polls to be consulted on our political and national future. This referendum will be held within a legal framework and with the explicit desire of arriving at the widest consensus possible among all the political and social forces in the country. At the same time as we prepare the referendum, the Government of Catalonia will work to define and develop the structures of state that we must have at the ready for this new scenario. We will also dedicate our efforts to explaining to Europe and the world the democratic process that we have begun and to make very clear that what we aspire to is simply to be a normal country in the European Union.

In Catalonia, we are facing crucial, momentous, and vital turning points in our history and we do so convinced that it will lead us to a better country. It is our duty and our responsibility to leave to future generations a country of which they can feel very proud.



also created several online communication and web design startups as well as one focused on archaeology. He wrote a pioneering blog in 1998 in which he narrated the adventures of a medieval knight in the United States (in Old Catalan). Currently, he directs the design studio Mortensen.co, is part of a startup, gives classes at the Universitat Pompeu Fabra, contributes to RAC1 radio, and is working on a book. He writes at Ganyet.com and speaks six languages.

"We don't inherit language from our ancestors, we borrow it from our children."

Loose adaption of a Native American proverb

A tweet from 2012

On December 4, 2012, I was riding the train to work listening to the radio and following my Twitter stream,

Keep Calm and Speak Catalan—Jose...

page 71 of 235

of the day was the Spanish education

point, only national chapters had

of Wikipedia is world renowned

with various cultural institutions,

Wiki initiative²⁵, which has

ions. We have collaborated with

ns like the Picasso Museum, the

the Dalí Theatre-Museum, the

Museum, and the network of

government. When we present

nces and workshops around the

ask us why we write them in

Spanish or French. After we

is, we also add that Catalans are

equal and that it would be very

easy to consult or write a wiki in Spanish, French, or

Italian—languages with a much larger audience

potential—but that that would probably be a death

sentence for our

Yet another wiki?—Àlex Hinojo

page 143 of 235

Catalan as Espanya, cap
Politics of High-Speed Rail:
(Lexi

In Catalonia, there is a port

has always believed that cre

priority. A very relevant fac

that a new part of the popula

objective, even though it

preferred model. About these, we could say that they

are in favor of the creation of a sovereign state as a

second choice

which was re

Strangers in our own land—Germà Bel

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They are also

They are also

They are also

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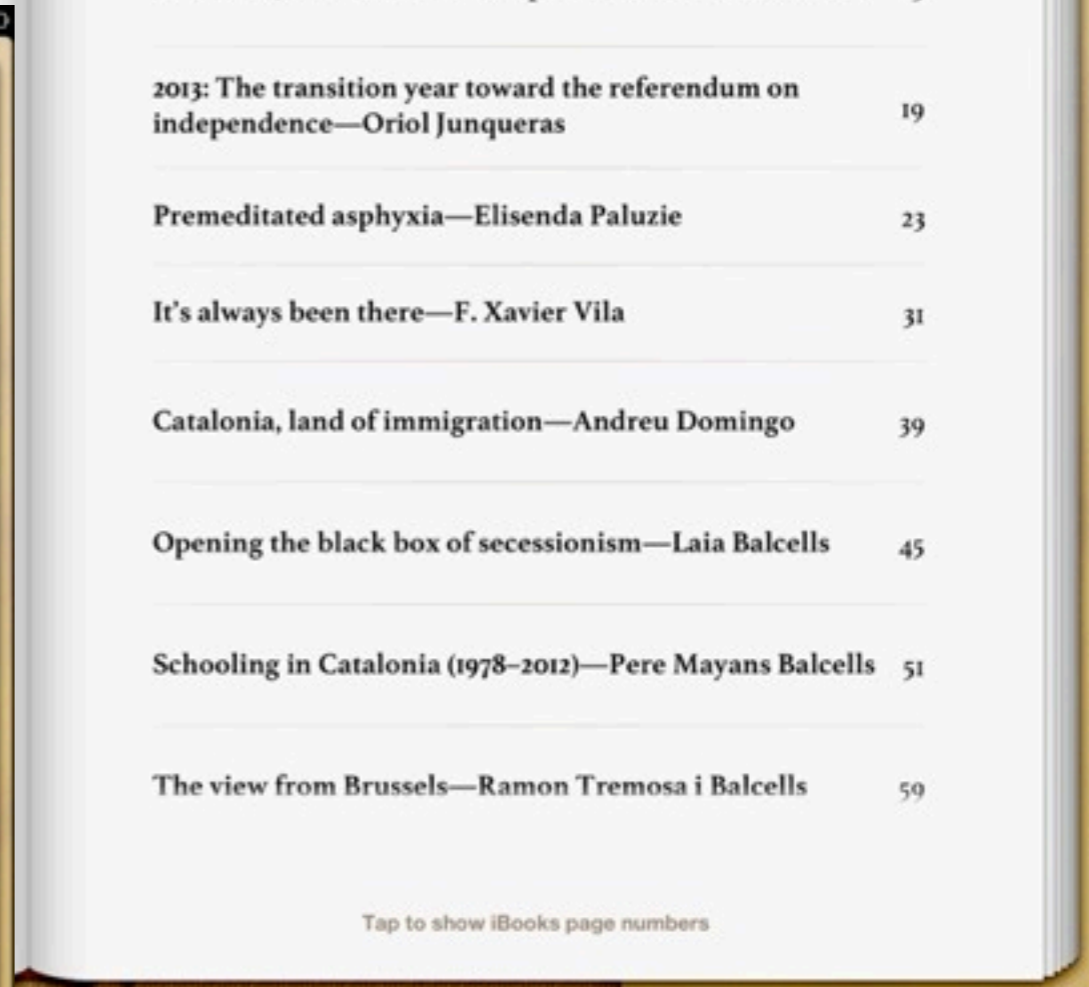
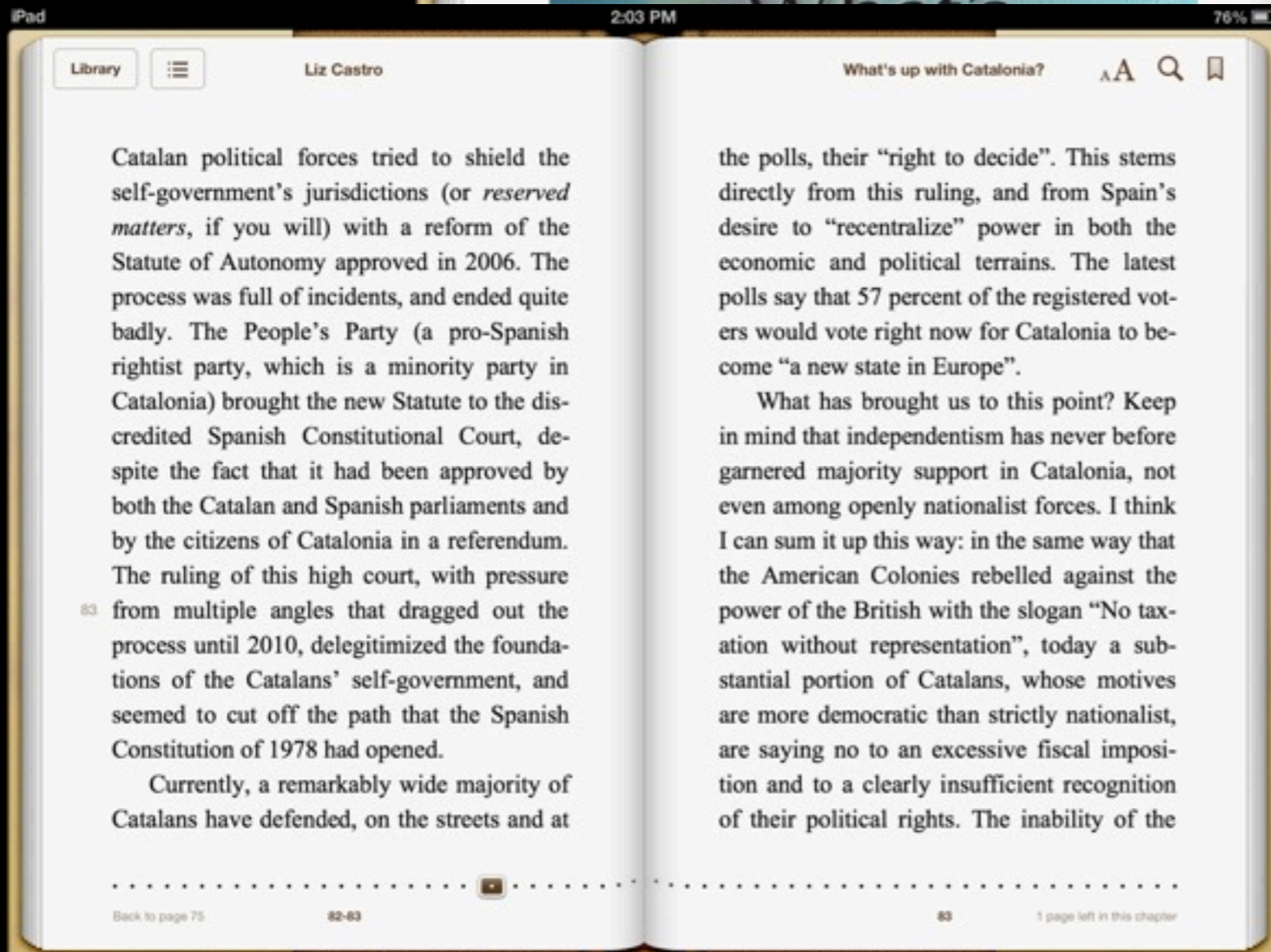
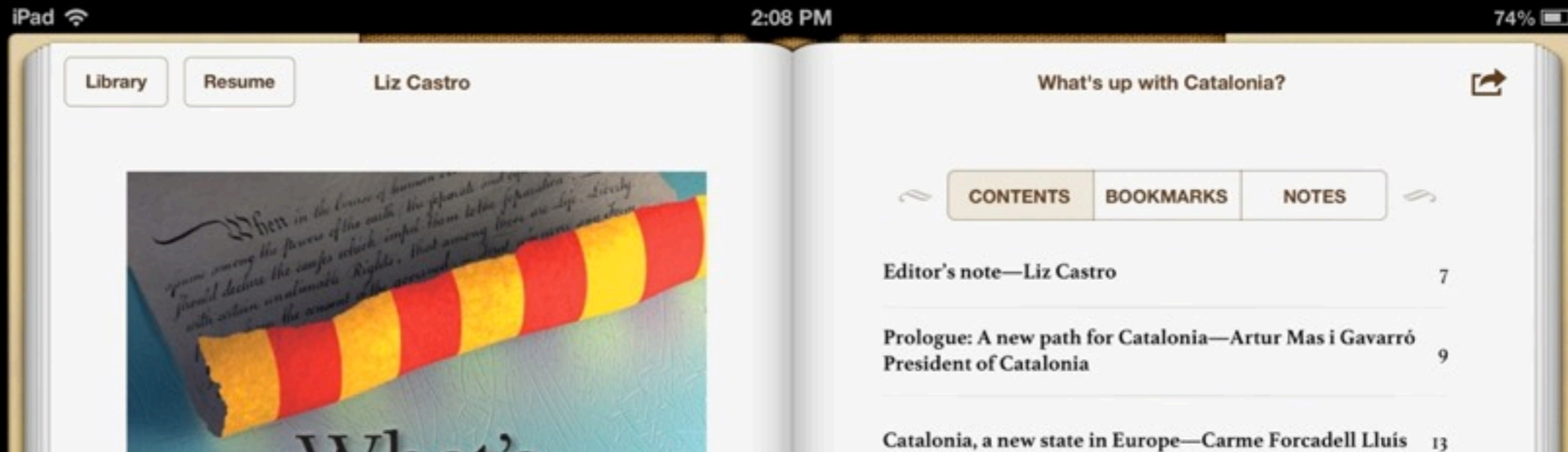
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On the prickly matter of language—J.C. Majo 91

iBooks



iBooks

of defeat in the hands of the United States, convinced many Catalans of the practical impossibility of that "fashioning" or modernizing. Catalonia instead turned back on itself. Vicens underlines how the two great social and political movements at the turn of the 20th century in Catalonia saw both a bourgeois Catalanism and a working class anarchism, which shared a common mistrust of the Spanish State and the real possibility of effectively modernizing it.

The history of the 20th century has not been very different in some respects. Catalonia has continued to be one of the economic powerhouses of Spain (it represents 16 percent of the total Spanish population).

Judo in Madrid – Alfred Bosch
Page 118

tural reality, as well as a differentiated social and political one. In 20th-century Spain, there has been no democracy without a simultaneous recognition of the right of Catalonia to self-government, and there has been no dictatorship without a simultaneous recognition or prohibition of this right. That century began with a meek attempt at self-governance in the form of the *Mancomunitat* of Catalonia of 1914, which was overthrown in 1923 by the dictatorship of General Primo de Rivera. The Second Republic was proclaimed in 1931 with the explicit agreement to draft the Statute of Autonomy of Catalonia, which was approved (not without resistance)

been very different in some respects. Catalonia has continued to be one of the economic powerhouses of Spain (it represents 16 percent of the total Spanish population).

Schooling in Catalonia (1978–2012) – Pere M. ...
Page 57

de Rivera. The Second Republic was proclaimed in 1931 with the explicit agreement to draft the Statute of Autonomy of Catalonia, which was approved

been very different in some respects. Catalonia has continued to be one of the economic powerhouses of Spain (it represents 16 percent of the total Spanish population).

Opening the black box of secessionism – Laia ...
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de Rivera. The Second Republic was proclaimed in 1931 with the explicit agreement to draft the Statute of Autonomy of Catalonia, which was approved

Kindle Fire and old Kindle both use new TOC

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—Artur Mas i Gavarró President of Catalonia

Catalonia, a new state in Europe

—Carme Forcadell Lluís

2013: The transition year toward the referendum
on independence

—Oriol Junqueras

Premeditated asphyxia

—Elisenda Paluzie

It's always been there

—F. Xavier Vila

1%

WHAT'S UP WITH CATALONIA?

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—Elisenda Paluzie

It's always been there

—F. Xavier Vila

Catalonia, land of immigration

—Andreu Domingo

Opening the black box of secessionism

—Laia Balcells

Old ereaders still use ncx for navigation

- The XHTML file still works as content, but older ereaders will use toc.ncx for navigational menu

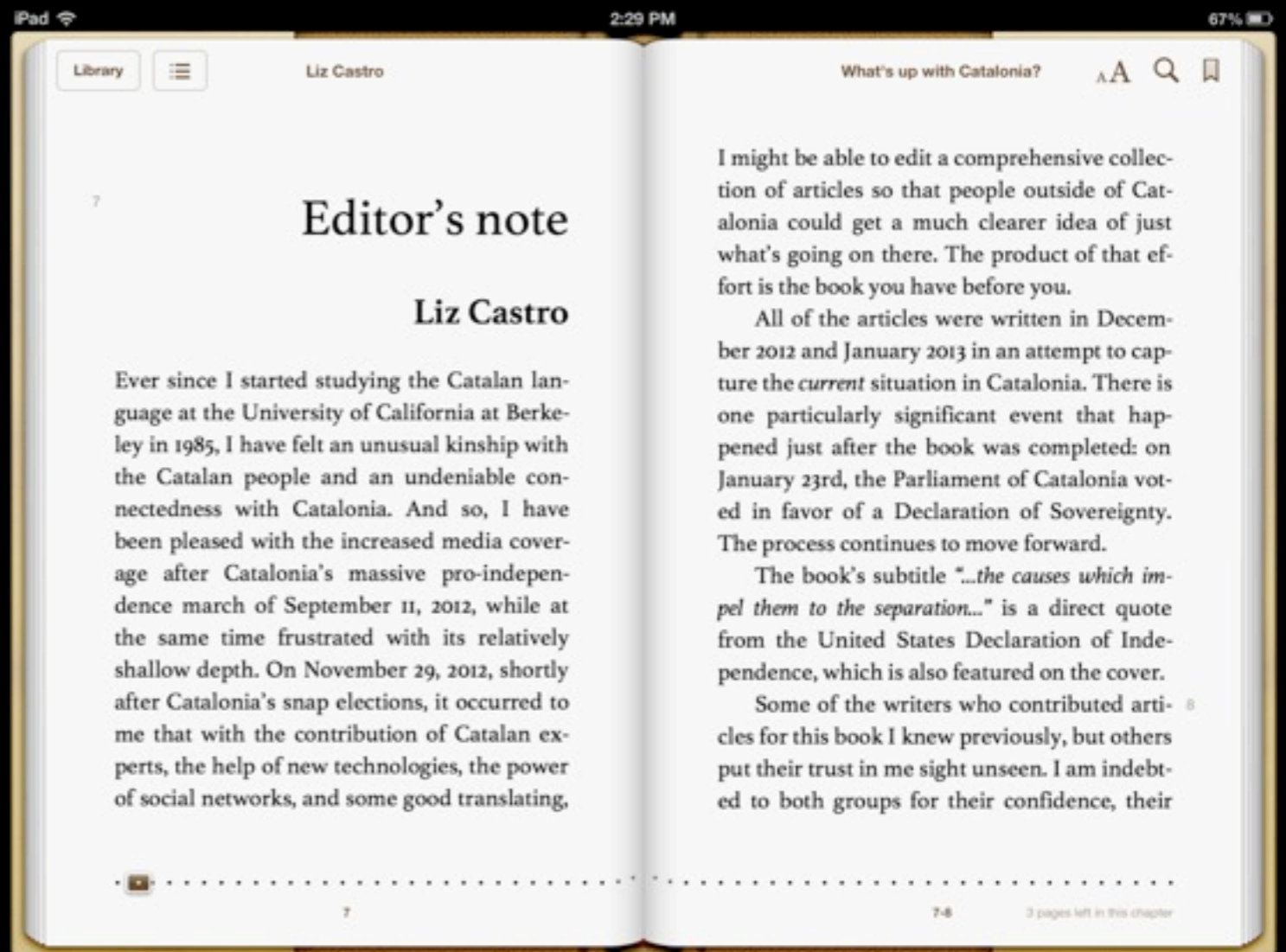


More 'nav': landmarks

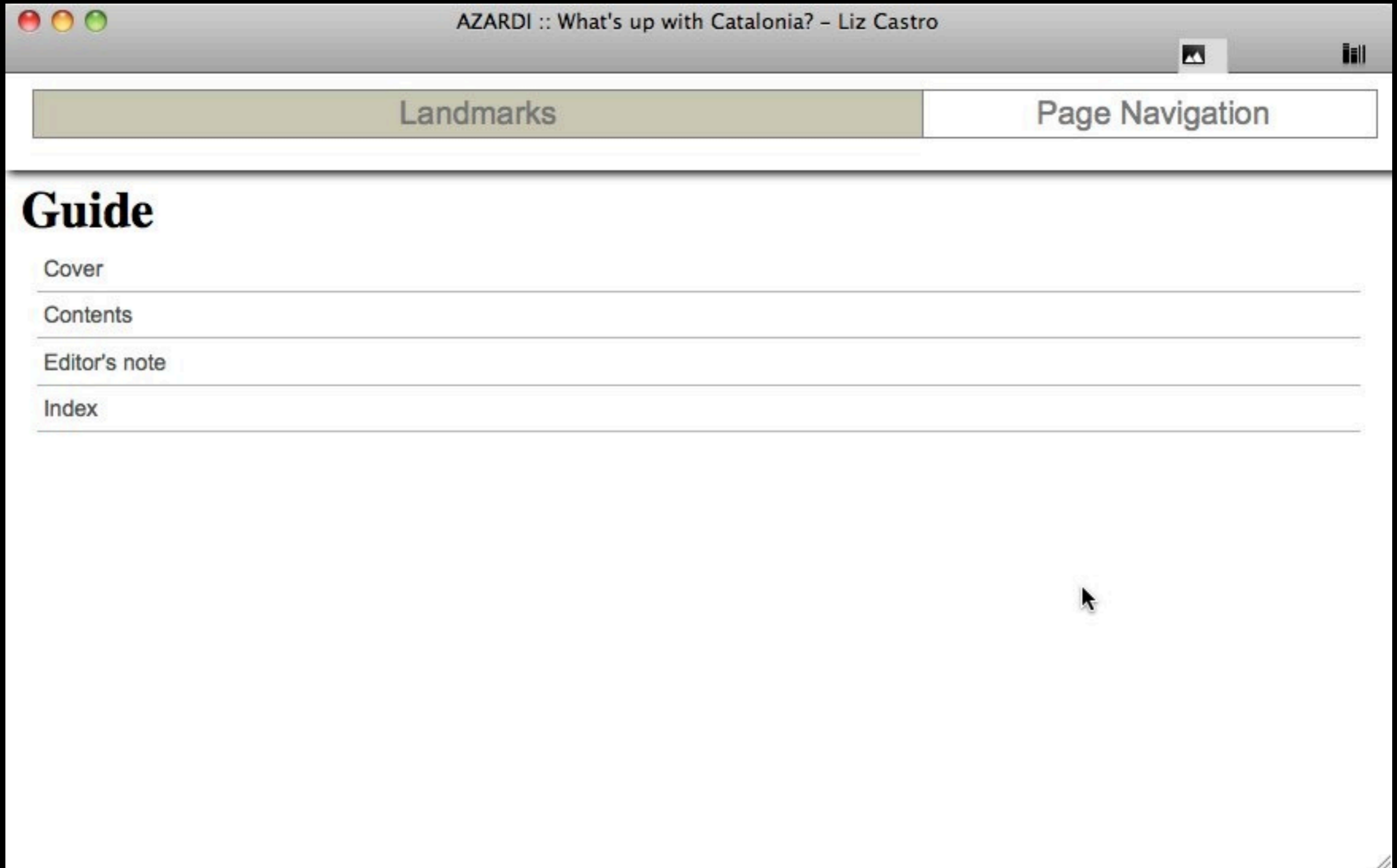
- New way to specify cover, toc, index, and starting page.
- Key bit is `epub:type="landmarks"` in nav element

```
<nav epub:type="landmarks" class="hide">
<h1>Guide</h1>
<ol>
<li><a href="CoverImage.xhtml" epub:type="cover">Cover</a></li>
<li><a href="NewWhatsUpTOC.xhtml" epub:type="toc">Contents</a></li>
<li><a href="NewWhatsUp-1.xhtml" epub:type="bodymatter">Editor's note</a></li>
<li><a href="NewWhatsUp-38.xhtml" epub:type="index">Index</a></li>
</ol>
</nav>
```

Landmarks



Landmarks



A screenshot of a web browser window. The title bar reads "AZARDI :: What's up with Catalonia? - Liz Castro". The browser has a tab and a window control icon. Below the title bar is a navigation bar with two buttons: "Landmarks" (highlighted) and "Page Navigation". Below the navigation bar is a section titled "Guide" with a list of links: "Cover", "Contents", "Editor's note", and "Index".

AZARDI :: What's up with Catalonia? - Liz Castro

Landmarks Page Navigation

Guide

- Cover
- Contents
- Editor's note
- Index

Page markers in text

- Add an id and the all-important important `epub:type="pagebreak"`

```
</head>
<body id="NewWhatsUp" xml:lang="en-US">
  <div><span id="page013" epub:type="pagebreak" title="013"></span>
    <p id="toc_marker-3" class="Article-title">Catalonia, a new
state in Europe</p>
    <p id="toc_marker-3-1" class="Author">Carme Forcadell
Lluís</p>
```

More 'nav': page-list

- Specify page list with nav and epub:type="page-list"

```
<nav epub:type="page-list" class="hide">
<h1>Pages</h1>
<ol>
<li><a href="NewWhatsUp-1.xhtml#page007">7</a></li>
<li><a href="NewWhatsUp-1.xhtml#page008">8</a></li>

<li><a href="NewWhatsUp-2.xhtml#page009">9</a></li>
<li><a href="NewWhatsUp-2.xhtml#page010">10</a></li>
<li><a href="NewWhatsUp-2.xhtml#page011">11</a></li>
<li><a href="NewWhatsUp-2.xhtml#page012">12</a></li>

<li><a href="NewWhatsUp-3.xhtml#page013">13</a></li>
<li><a href="NewWhatsUp-3.xhtml#page014">14</a></li>
```

Source for page numbers

- The dc:source element can be used to show which edition of the book the page numbers correspond to

```
<dc:source id="print">urn:isbn:9781611500325</dc:source>
```

What's up with Catalonia?



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Tap to show printed page numbers

What's up with Catalonia?



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Since September 11, 1714, as a consequence of a military defeat, Catalonia has formed part of the Kingdom of Spain. And each September 11 we commemorate our National Day, not to remember our defeat, but on the contrary, to remember that despite the defeat, and the subsequent suffering and the attempts to wipe us out, we continue to exist. During the almost 300 years that Catalonia has lived as part of the Spanish State, we have tried several times to recover our national freedoms that we lost by force of arms, but it hasn't been until now, in the 21st century, that we have had the political, social, cultural, and economic conditions necessary to achieve independence.

14



On September 11, 2012, more than 1.5 million people came out on the streets of Barcelona to demonstrate behind a placard that read *Catalonia: New State in Europe*. A demonstration of 1.5 million people in a country of 7.5 million inhabitants can easily be qualified as one of the largest, if not the largest, in history. And if we add to this the fact that the demonstration was celebrated in an absolutely democratic and peaceful manner, and that it was convoked by the civil society, it is even more ex-



14 • *Catalonia, a new state in Europe*



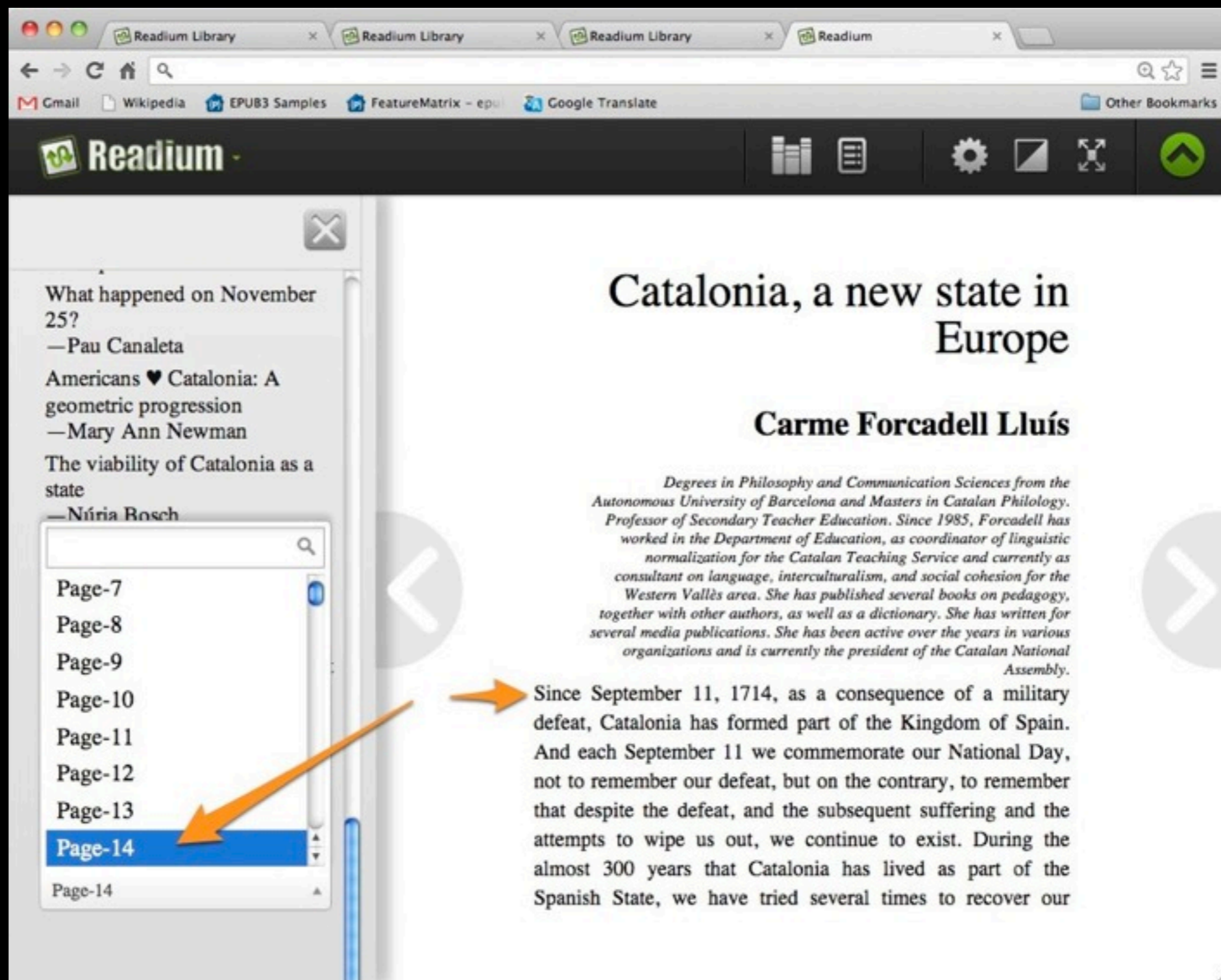
Since September 11, 1714, as a consequence of a military defeat, Catalonia has formed part of the Kingdom of Spain. And each September 11 we commemorate our National Day, not to remember our defeat, but on the contrary, to remember that despite the defeat, and the subsequent suffering and the attempts to wipe us out, we continue to exist. During the almost 300 years that Catalonia has lived as part of the Spanish State, we have tried several times to recover our national freedoms that we lost by force of arms, but it hasn't been until now, in the 21st century, that we have had the political, social, cultural, and economic conditions necessary to achieve independence.

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This demonstration was in fact convoked and organized by the Catalan National Assembly (ANC), an entity formed by people of various ideologies and different social classes that pursue a common objective: the independence of Catalonia. We plan to dissolve once we have achieved our goal. The Assembly was formally constituted six months before the demonstration, on March 10, 2012, even though we were working on this project a full two years earlier. I was invited to join by Miquel Strubell, one of the founders of the Assembly, when there were only 20 members.

From the very beginning, we were clear that the goal of the ANC was to achieve Catalonia's independence, and thus the only thing that we had to decide was how and when. To do so, we elaborated a road map which explained the steps necessary for reaching our goal. One of the things that emerged was organizing

Radium uses the page-list to create a menu for navigating quickly through the book



Page-list in Azardi

AZARDI :: What's up with Catalonia? - Liz Castro

Landmarks Page Navigation

Pages

7	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36	37	39	40	41	42
43	44	45	46	47	48	49	51	52	53	54	55	56	57	59	60	61
62	63	64	65	67	68	69	70	71	72	73	74	75	76	77	78	79
80	81	82	83	85	86	87	88	89	90	91	92	93	95	96	97	98
99	100	101	102	103	104	105	106	107	108	109	110	111	113	114	115	116
117	118	119	120	121	122	123	124	125	126	127	129	130	131	132	133	135
136	137	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
154	155	157	158	159	160	161	162	163	164	165	167	168	169	170	171	172
173	174	175	177	178	179	180	181	183	184	185	186	187	189	190	191	192
193	194	195	196	197	198	199	201	202	203	204	205	207	208	209	210	211
212	213	215														

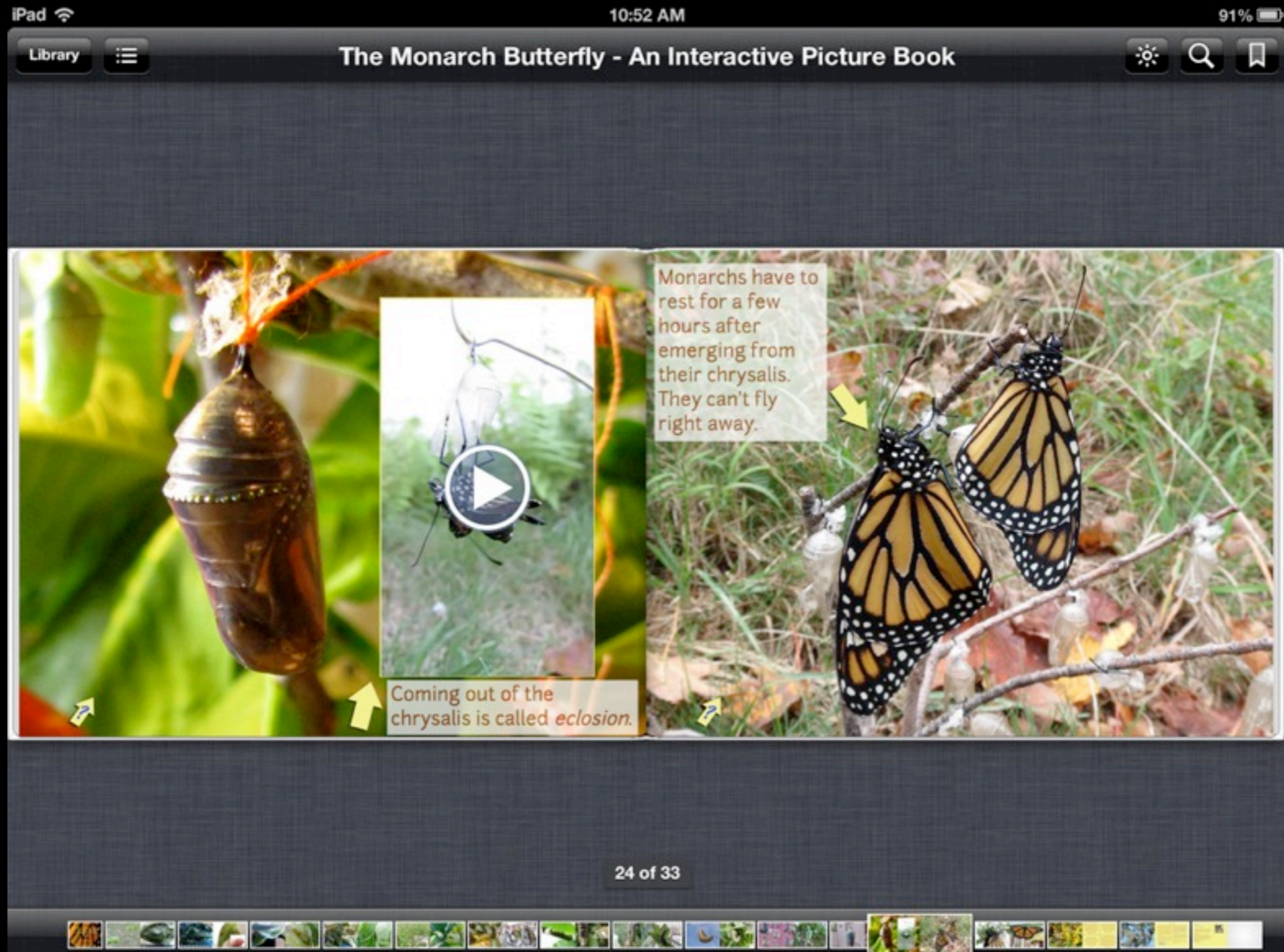
Content files

- HTML5 but with XHTML syntax

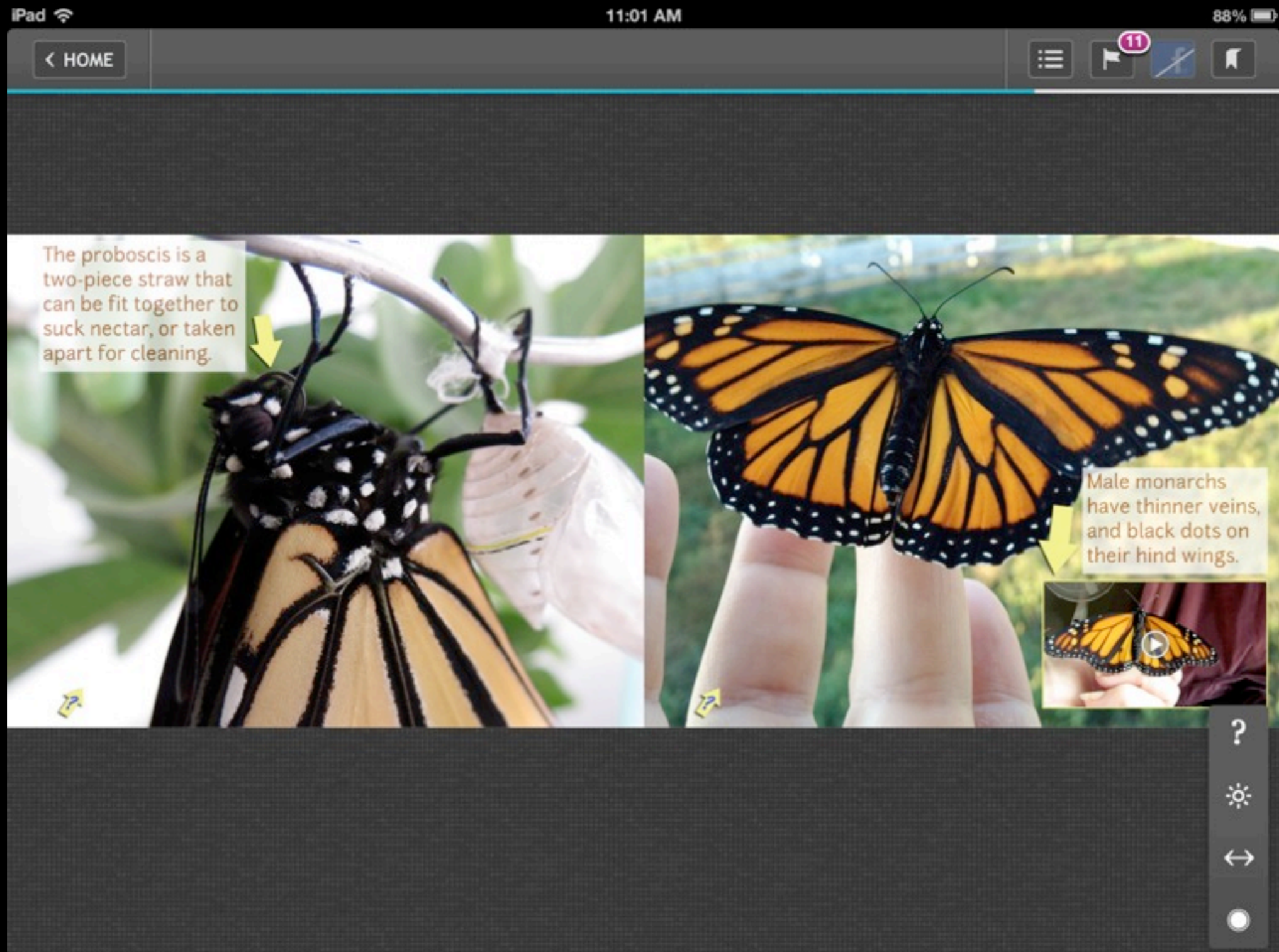
```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
xmlns:epub="http://www.idpf.org/2007/ops">
  <head>
    <meta charset="UTF-8" />
    <title>What's up with Catalonia? 2</title>
    <link href="css/whatsupcat.css" rel="stylesheet" type="text/css" />
  </head>
  <body id="NewWhatsUp" xml:lang="en-US">
    <div><span id="page009" epub:type="pagebreak" title="009"></span>
      <p id="toc_marker-2" class="Article-title">Prologue: <br
```


EPUB3 power

Fixed layout - iBooks



Fixed layout



Google Play



11:16

Barcelona Beyond Gaudí
Elizabeth Castro



Aa



Barcelona Beyond Gaudí
page 11 of 101



Epub3 Fixed Layout

```
<?xml version="1.0" encoding="utf-8"?>  
<package xmlns="http://www.idpf.org/2007/opf"  
unique-identifier="bookid" version="3.0" prefix="rendition:  
http://www.idpf.org/vocab/rendition/# ibooks:  
http://vocabulary.itunes.apple.com/rdf/ibooks/vocabulary-extensions-1  
.0/"><!--new in 1.1-->
```

Epub3 Fixed Layout

```
<meta property="rendition:layout">pre-paginated</meta>  
<meta property="rendition:orientation">auto</meta>  
<meta property="rendition:spread">auto</meta>
```

Epub3 Fixed Layout

```
<spine toc="ncx">  
<itemref idref="cover" />  
  <itemref idref="copy" />  
  <itemref idref="intro" properties="rendition:layout-reflowable"/>  
  <itemref idref="pg006" />  
  <itemref idref="pg007" />
```

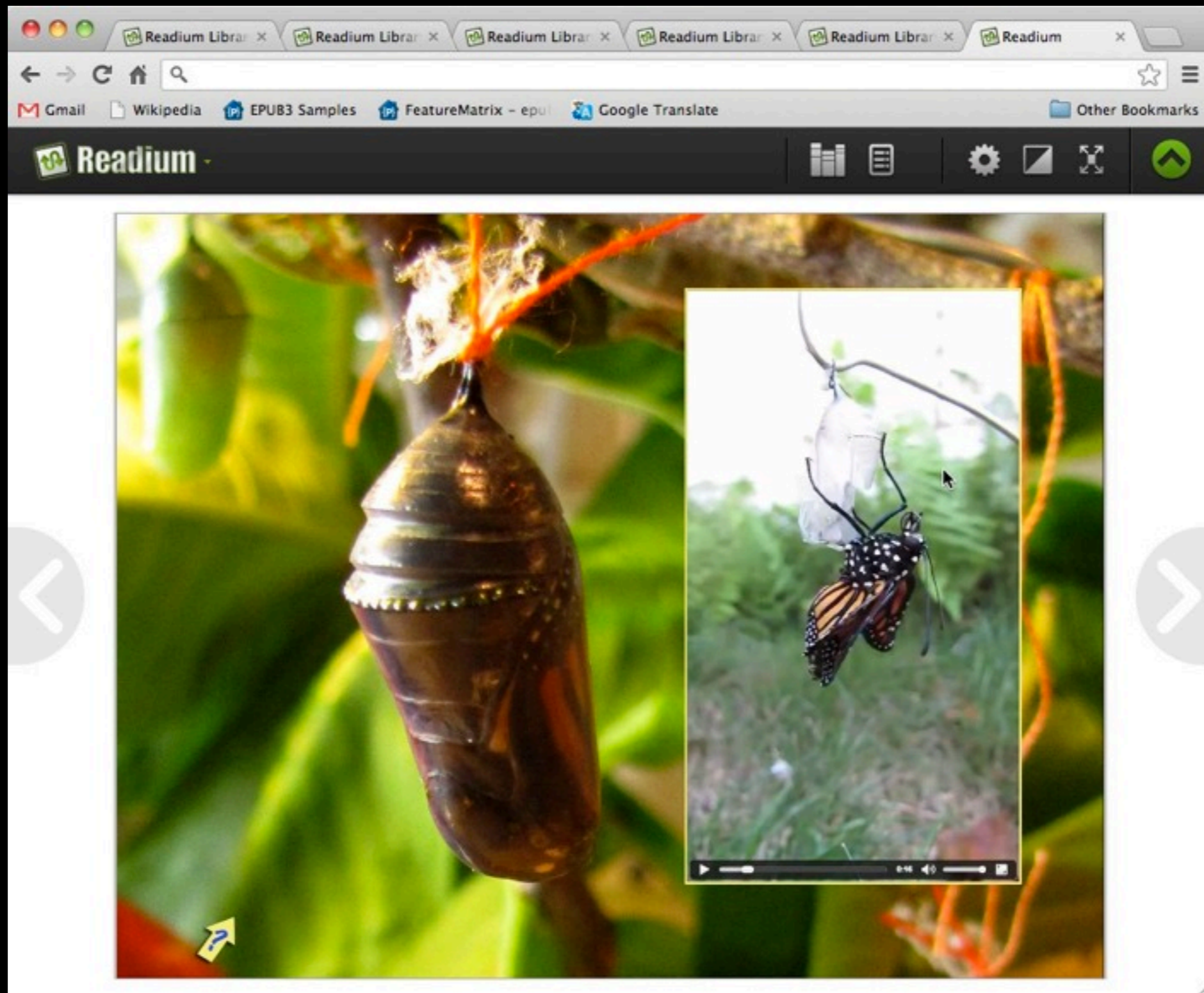
Radium



Audio/Video

```
<div id="video"><video src="video/eclosion-rotated.mp4"  
controls="controls"  
poster="eclosion/eclosionposter.jpg"></video></div>
```

Audio/Video




Remote video files

```
<video controls="controls" poster="image/poster.jpg" width="384"
height="276">
  <source src="http://www.elizabethcastro.com/epub/examples/catbox2.mp4" />
  <source src="http://www.elizabethcastro.com/epub/examples/catbox2.wvm" />
  <p><a href="http://www.elizabethcastro.com/epub/examples/catbox.mp4"><br />Click to play the video</a> and then return to read the rest of the
book. </p>
</video>
```

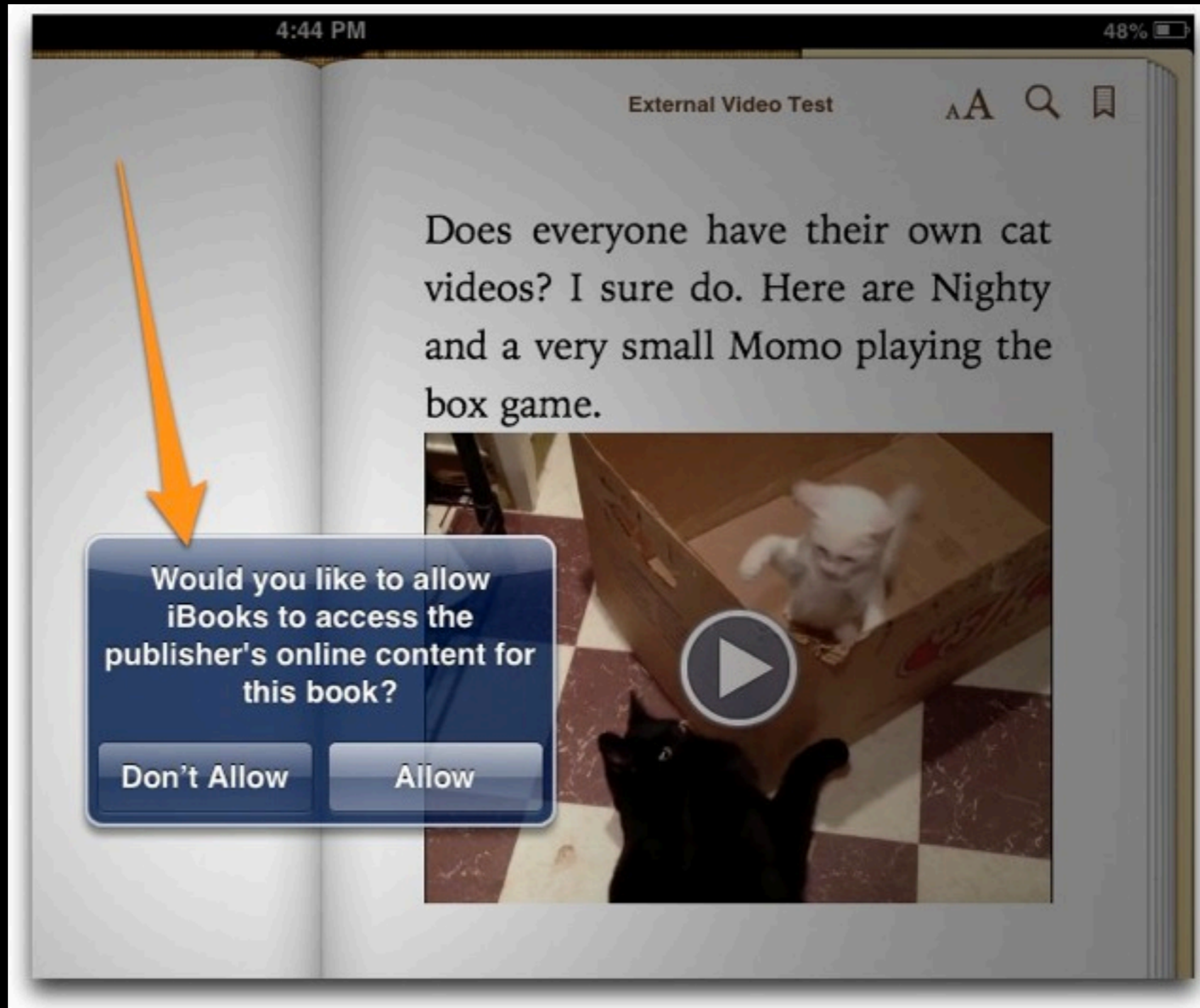
Remote video files

```
<manifest>  
  <item id="outvideo" href="outvideo.xhtml"  
media-type="application/xhtml+xml" properties="remote-resources" />
```

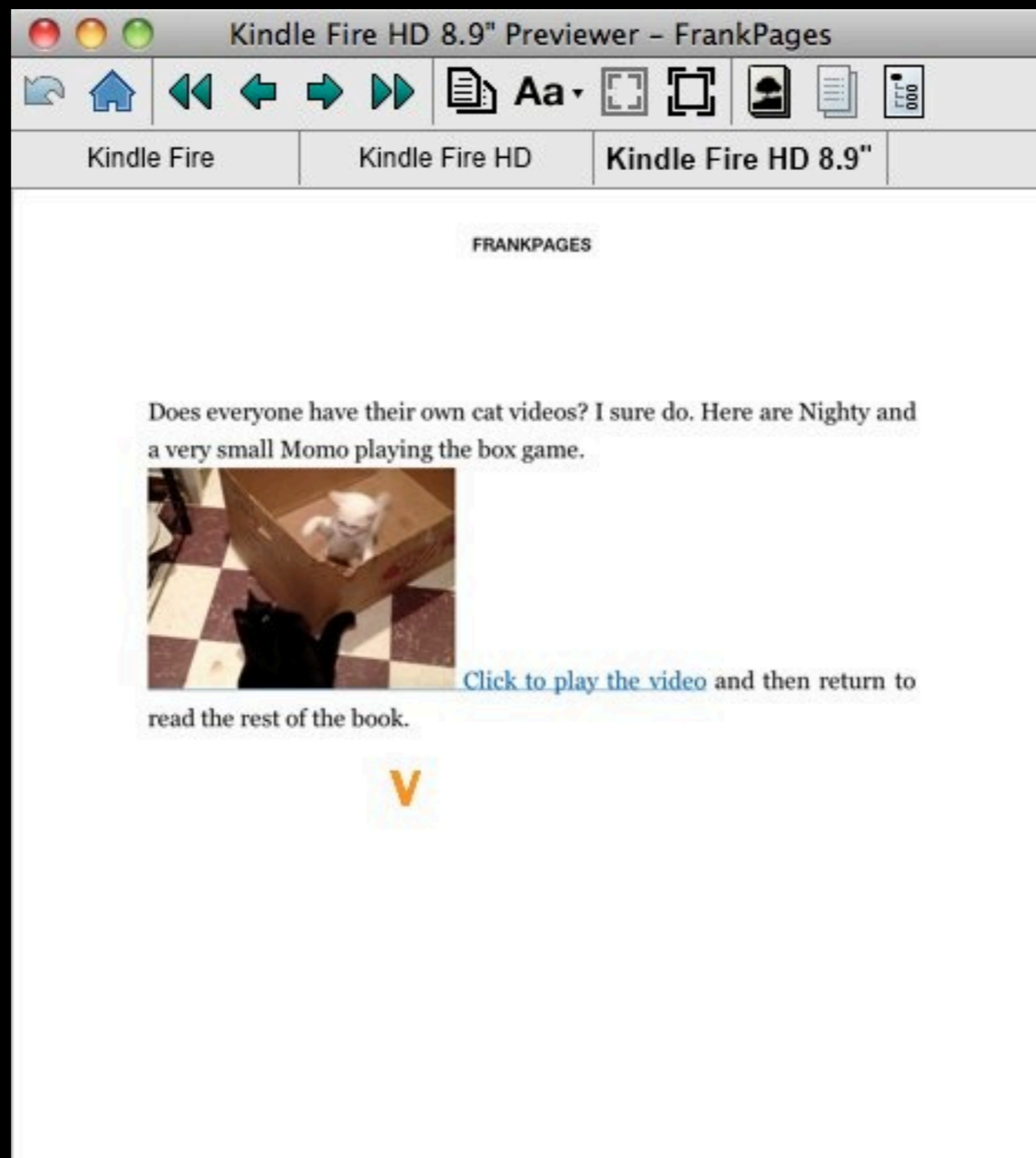


```
  <item id="vid"  
href="http://www.elizabethcastro.com/epub/examples/catbox2.mp4"  
media-type="video/quicktime" />  
  <item id="vid2"  
href="http://www.elizabethcastro.com/epub/examples/catbox2.wvm"  
media-type="video/webm" />
```

Remote video



Remote video on Kindle Fire



Liz Castro

- Pigs, Gourds, and Wikis
<http://www.pigsgourdsandwikis.com>
- Twitter: @lizcastro
- What's up with Catalonia?
<http://www.CataloniaPress.com>
- The Monarch Butterfly Book
- Barcelona Beyond Gaudí