

#### NAVIGATING THE MAZE OF EPUB PUBLISHING

Chandi Perera

#### What is EPUB?

- Platform, Vendor and Device Independent open file format.
- Developed by the International Digital Publishing Forum (IDPF) – a industry consortium.

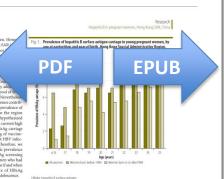
#### Reflowable

ADSTracts in عربي, 中义,

#### Introduction

It is generally held that vertical transmission is the International of hepatitis B virus (HBV) infection in regions which the case is endemic. 1-5 The neonatal immunization properties are included in the case is endemic. 1-5 The neonatal immunization properties are included in the case is endemic. 1-5 The neonatal immunization properties are included in the case is endemic. 1-6 The neonatal immunication properties are included in the case of the

In Hong Kong SAR, pregnant women receiving care constitute the only social group that undergo the during above the social group that undergo the during above the social group that undergo the social group that underg



#### Results

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The most marked increase in previlence occurred around the age of 18 years in women born both befor 1984 and in or after 1984: there was twofold and a greater than threefolincrease between the ages of 17 an 18 years in the two groups, respectively

4,92,782-789 doi: http://dx.doi.org/10.2471/813.13.133413

Abstracts in عربى, 中文, Français, Русский and Español at the end of each article.

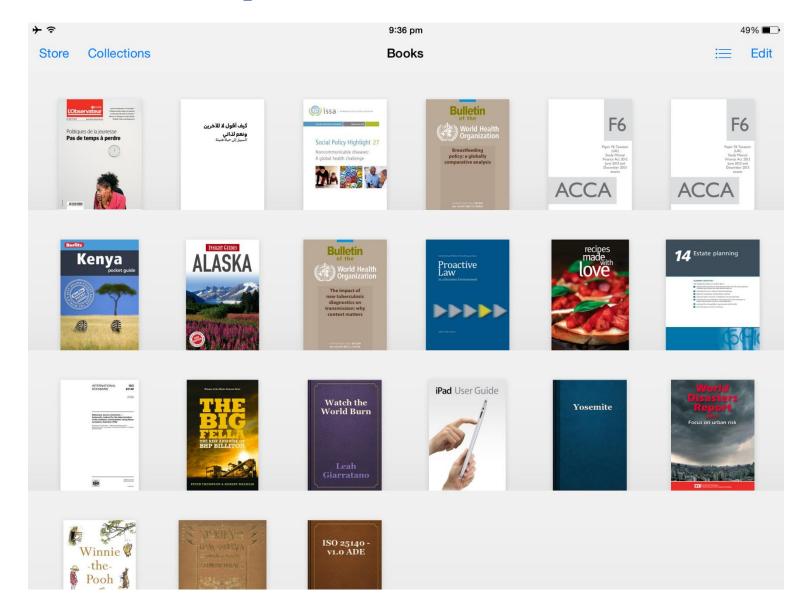
#### Introduction

It is generally held that vertical transmission is the major route of hepatitis B virus (HBV) infection in regions where the disease is endemic. 1-5 The neonatal immunization programmes using immunoglobulin and hepatitis B vaccination that have been developed to prevent vertical  $transmission^{6-10}$  have widely been reported to be effective. 11-16 Neonatal immunization was introduced to the Hong Kong Special Administrative Region (SAR), China, in 1983<sup>1</sup> and was selectively applied to neonates born to mothers found to be carrying the hepatitis B surface antigen (HBsAg) on routine antenatal screening. 17 In November 1988, neonatal HBV vaccination has become universal irrespective of maternal HBsAg status. 18,19 Since then, vaccination has

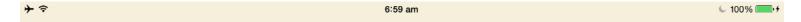
### **Portable and Offline**



### Create personal collections



### No fine grain layout control



f) operating range;

Library

g) details of the quality and the concentration of the span gases used;

International Organ...for Standardization

- h) description of plant and process;
- i) identification of the sampling plane;
- actions taken to achieve representative samples;
- k) description of the location of the sampling point(s) in the sampling plane;
- I) description of the operating conditions of the plant process;
- m) changes in the plant operations during sampling;
- n) sampling date, time and duration;
- o) time averaging on relevant periods;
- p) measured values;
- q) measurement uncertainty;
- r) results of any checks;
- s) any deviations from the requirements of this International Standard.

NOTE Requirements for the test report are specified e.g. in EN 15267-3[7] for the results of performance tests, in EN 15259[6] for the results of intermittent monitoring, and in EN 14181[5] for the results of continuous monitoring.

AnnexA (normative)

#### **Operational gases**

ISO 25140 - v1.0 iPad 🛕 🔾 🗋

#### A.1 General

A number of operational gases are required when using this International Standard.

#### A.2 Combustion air

The combustion air shall consist of synthetic (hydrocarbon-free) or purified air. The hydrocarbon volume fraction should not exceed 2,0 % of the upper limit of the measuring range used during the whole operation.

#### A.3 Fuel gas

The fuel gas for the FID usually consists of hydrogen. If required by the FID manufacturer, the fuel gas can be a hydrogen-helium mixture or a hydrogen-nitrogen mixture.

The purity of the fuel gas used shall be at least 99,999 %.

For safety reasons the fuel gas line should be made of metal.

#### A.4 Zero gas

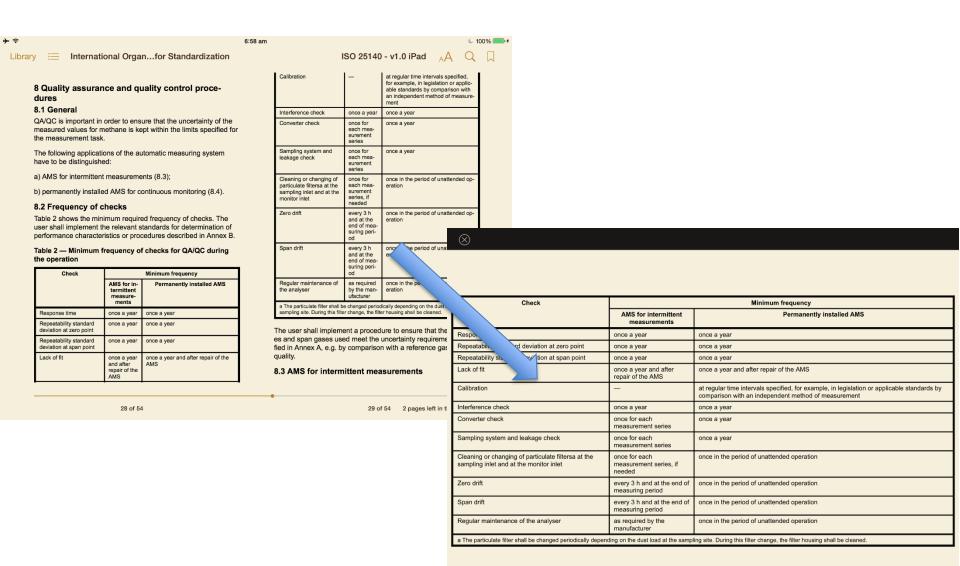
The zero gas shall consist of hydrocarbon-free synthetic air. The hydrocarbon volume fraction should not exceed 1,0 % of the upper limit of the measuring range used.

NOTE Combustion air can be suitable if it is sufficiently purified.

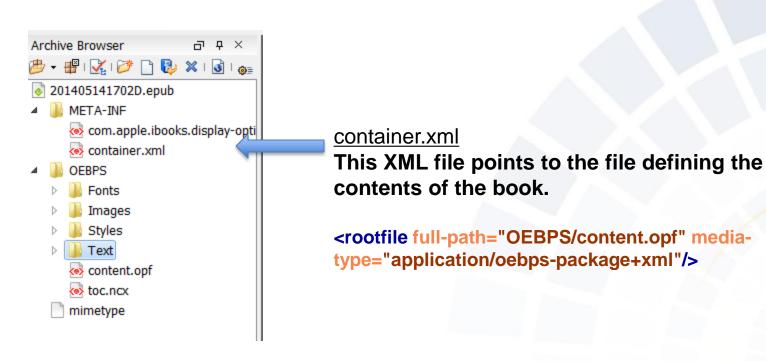
#### A.5 Span gas

Span gas shall consist of methane in synthetic air. It shall have a known concentration with a maximum permissible expanded uncertainty of 2,0 % of its nominal value traceable to applicable standards.

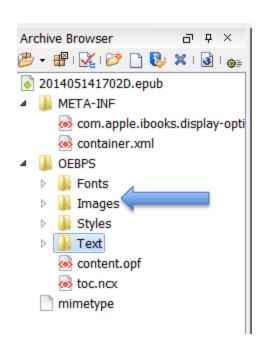
### But there are workarounds



 Really a ZIP file container (OPF - Open Container Format 2.0.1)



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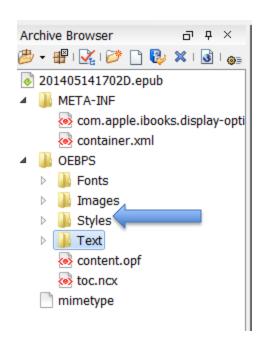
#### Fonts directory

Your licensed fonts

#### **Images directory**

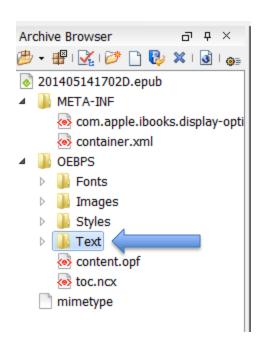
Your images (jpeg, png, svg...)

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Styles Directry CSS style sheets

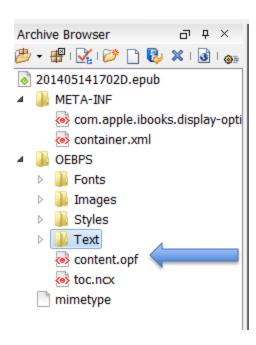
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#### **Text Directory**

Actual Content in HTML file(s). For speed it is recommended that each chapter is a single HTML file

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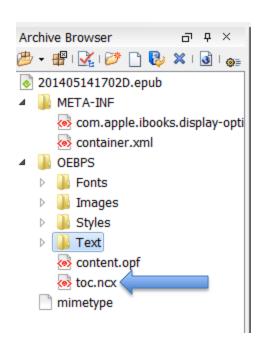
#### content.opf

- 1. EPUB book's metadata,
- 2. File manifest,
- 3. Linear reading order.

```
1 <?xml version="1.0" encoding="utf-8" standalone="yes"?>
2 < case xmlns="http://www.idpf.org/2007/opf"</pre>
     prefix="ibooks: http://vocabulary.itunes.apple.com/rdf/ibooks/vocab
     unique-identifier="ISBN" version="3.0" xml:lang="en">
     <!--prefix='ibooks' above necessary for iBooks versioning-->
      <metadata xmlns:dc="http://purl.org/dc/elements/1.1/">
          <dc:title>GCSE Maths - Pythagoras Foundation</dc:title>
          <dc:source id="src-id">urn:isbn:97803PRINTversion</dc:source>
          <dc:identifier id="TSBN">201405141702D</dc:identifier>
          <dc:identifier id="isbn-id">urn:isbn:201405141702D</dc:identifi
          <dc:creator>Cambridge University Press</dc:creator>
          <dc:publisher>Cambridge University</dc:publisher>
          <dc:language>en</dc:language>
          <meta name="cover" content="cover image"/>
          <meta property="ibooks:specified-fonts">true</meta>
          <meta property="dcterms:modified">2014-04-10T11:41:00Z</meta>
          <meta content="0.7.4" name="Sigil version"/>
      </metadata>
     <manifest> [108 lines]
     <spine toc="ncx"> [3 lines]
2 </package>
```

This file has a root element package and four child elements: <metadata>, <manifest>, <spine>, and <guide>. All of these except guide are required. Furthermore, the package node must have the unique-identifier attribute.

 Really a ZIP file container (OPF - Open Container Format 2.0.1)



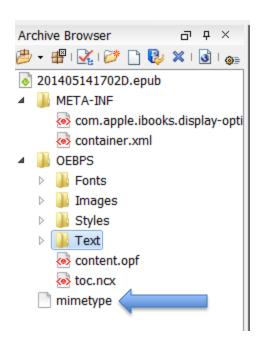
#### **Text Directory**

The NCX file (Navigation Control file for XML), traditionally named *toc.ncx*, contains the hierarchical table of contents for the EPUB file. Actual name is specified in OPF file

<item href="toc.ncx" id="ncx" mediatype="application/x-dtbncx+xml"/>



 Really a ZIP file container (OPF - Open Container Format 2.0.1)



#### <u>mimetype</u>

The *mimetype* file must be a text document in ASCII that contains the string *application/epub+zip* 

### How to produce an EPUB

- Manually create the EPUB file (like an old school website)
- Number of Word to EPUB conversion tools
- Use XML/XSLT Many JATS to EPUB tools around
  - Laura Kelly <a href="http://www.ncbi.nlm.nih.gov/books/NBK47314/">http://www.ncbi.nlm.nih.gov/books/NBK47314/</a>
- Adobe InDesign
- Outsource

## Digital Rights Management (DRM)

- Ensures EPUB files can only be opened by authorized devices
- There is no single way. Each vendor uses their own
- You do not have to use DRM

The author and publisher have provided this e-book to you without Digital Rights Management software (DRM) applied so that you can enjoy reading it on your personal devices. This e-book is for your personal use only. You may not print or post this e-book, or make this e-book publicly available in any way. You may not copy, reproduce or upload this e-book, other than to read it on one of your personal devices.

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us.macmillanusa.com/piracy.

### Digital Rights Management

Device/Application	DRM Scheme
Adobe Digital Editions	Adobe Content Server
Google Books	Lektz DRM
iBooks	FairPlay
Kindle	ZAW/TPZ & File Format
Sony	Adobe Content Server
Kobo	Adobe Content Server
Nook	Modified Adobe Content Server

#### Channels

- Go with a commercial Chanel like iBooks or Amazon. You would need to pay a commission of around 30%-50%
- Off your website without DRM (but may be behind a pay wall)
- Off your website with DRM
- Use a white label reader (Blue Fire, Hip Zone)
- Build your own reader

#### Each device is different

- Each device and application renders content slightly differently (think browser wars)
  - Eg. Formatting, Keeps, Lists, Boxes
- Need to optimize content for devices, device classes or use the lowest common denominator
- More devices you support more accessible your content will be... but!!!

### Device specific content

- Each device renders (or does not render) content differently e.g. MathML, Video
- Subset your content to different formats/devices or use lowest common denominator
- Keep content cut due to page budget







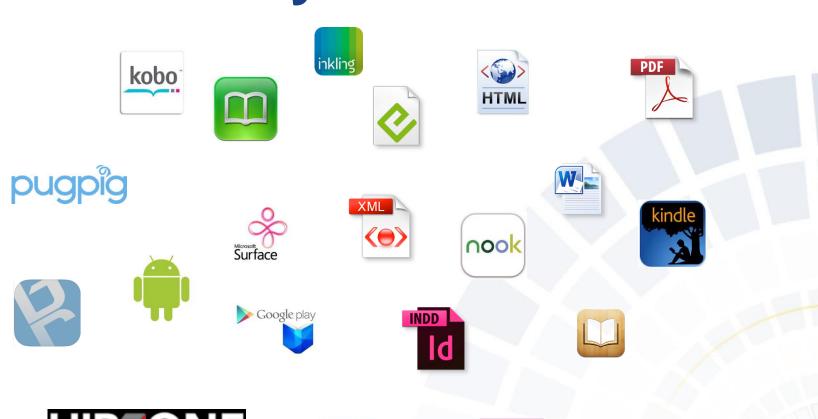
#### Revenue

- Most publishers report 80%+ revenue comes from print
- EPUBs are not yet profitable for most publishers
- Time/Money spent and sophistication of the EPUB has little correlation with revenue

### **Competing platforms**

- Adobe Digital Editions
- Inkling
- Blue Fire / Hip Zone
- Large number of HTML5 apps

# I can only proof in the final layout!!!!!









### **THANK YOU**

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