



 EDUPUB

**EDUPUB Solutions from SunTec Digital**

# What is EDUPUB?

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- EPUB 3 for educational content
- EDUPUB enables educational content of all types to be reliably distributed and interchanged between a wide variety of devices and platforms.
- Connecting the ecosystem via standards like QTI (Question and Test Interoperability), LTI (Learning Tools Interoperability), and the Caliper Analytics Framework.
- Providing the Open Web Platform standards — XML, HTML, HTTP, CSS, and many others — for easy communication and interchange.

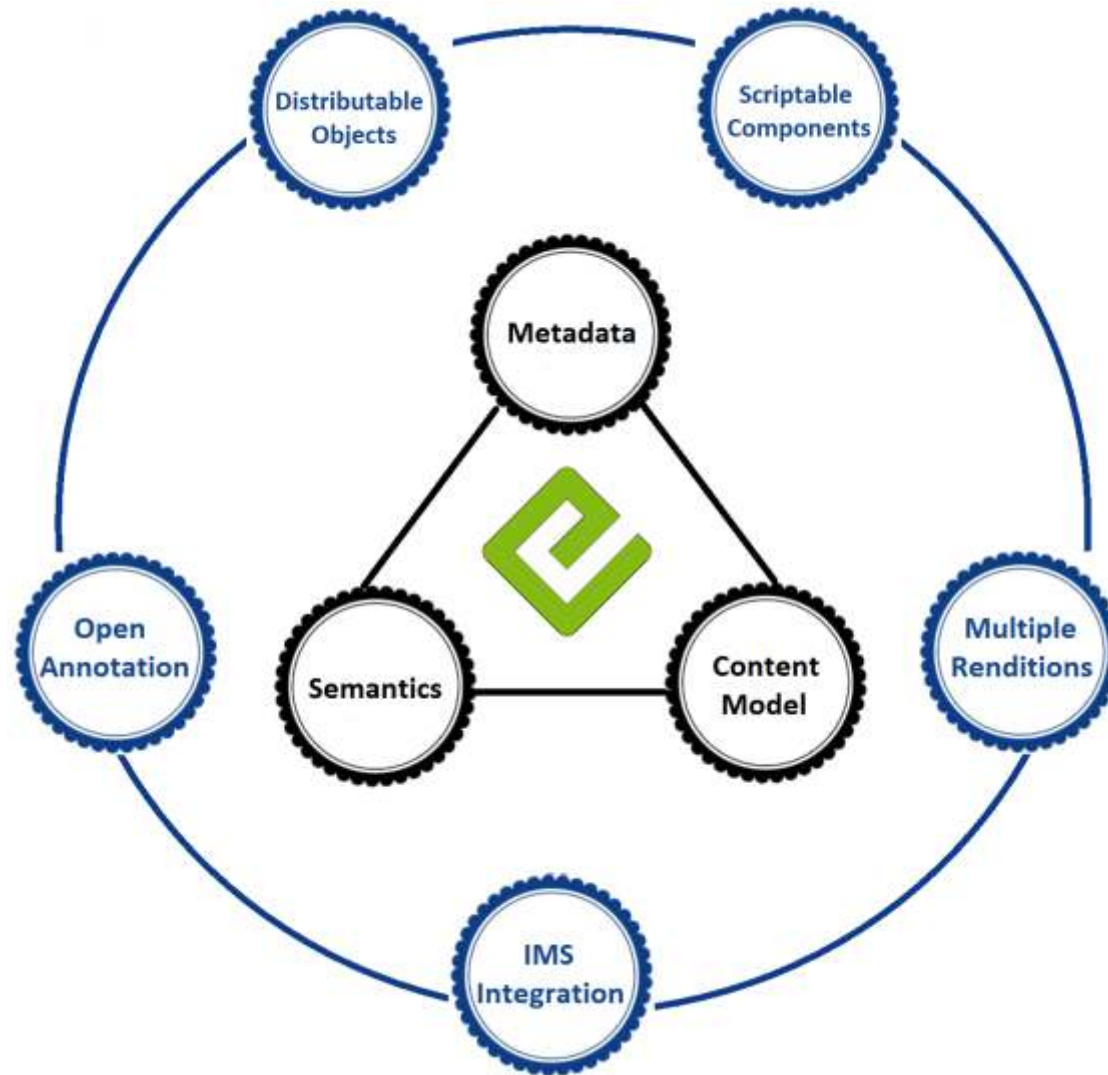




# What's the rationale for this approach?

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- ❑ Leverage existing open standards, including HTML5, CSS3, EPUB 3, and best practices of the Open Web.
- ❑ Create content that is semantically structured and relevant for education.
- ❑ Give equal weight to metadata and structural standards.
- ❑ Create content that is highly accessible.
- ❑ Support structured authoring and assembly ecosystems.
- ❑ Support collection of meaningful and useful learning data.



# Why is EDUPUB based on the EPUB 3 standard?



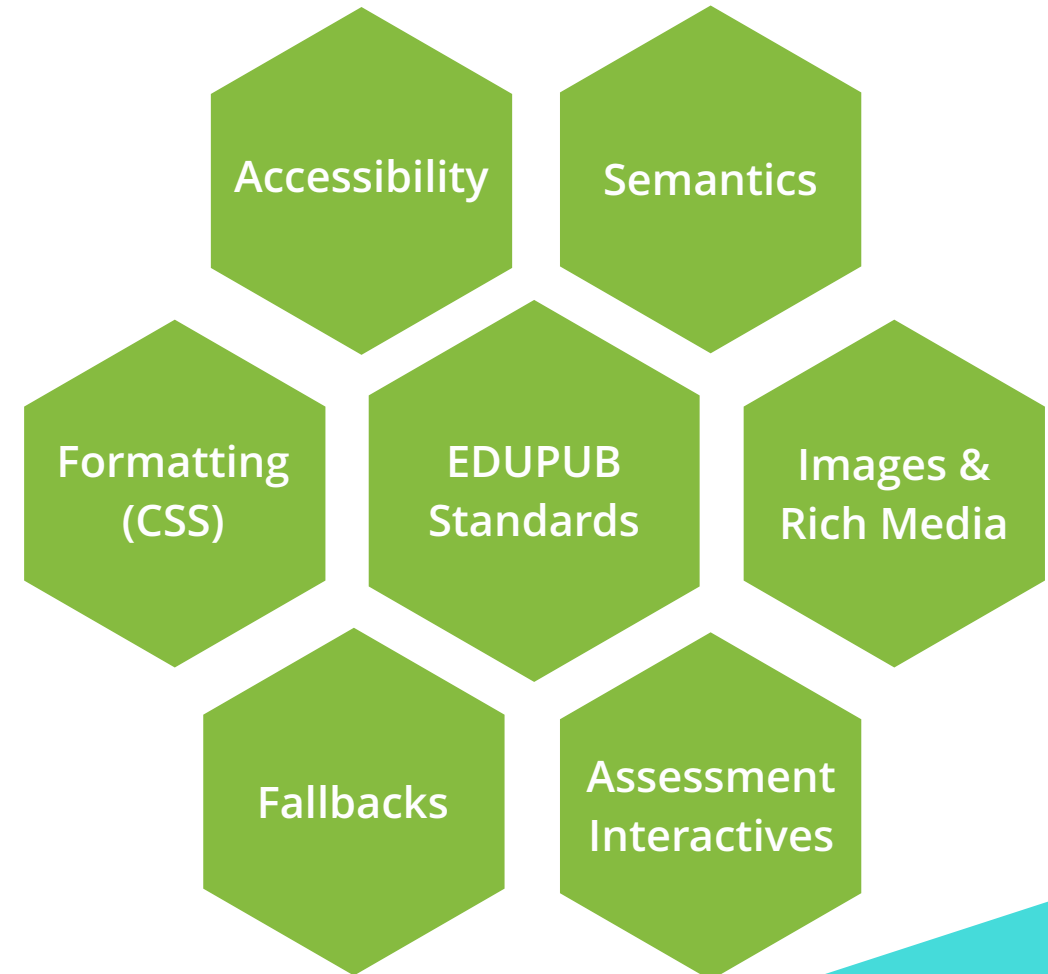
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- **Reducing production pain points:** It does not require publishers to develop separate workflows to create a completely different eBook format for their educational content
- **Reducing retailer limitations:** A retailer that supports EPUB 3 but does not specifically support EDUPUB will still be able to sell the file because it is a valid EPUB 3 document and should have “graceful fallbacks” to present content effectively.

# What are the key features of EDUPUB?

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- Metadata
- Structure of content, including “remixability”
- Scriptable components
- Open Annotations
- LMS integration







# 1. Metadata

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## *Educational metadata*

Established on schema.org educational properties, such as:

- Type of audience: professional, corporate, schools, etc.
- Type of learning resource: activity, discussion or assessment based
- Age Range: 5-10, 10-15, 15-20

# 1. Metadata

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## *Accessibility metadata*

Established on schema.org accessibility attributes such as:

- Accessibility features: alternative text, print page numbers
- Accessibility control: full keyboard control, full voice control

## *Teacher editions and guides*

Capability to identify that an EDUPUB eBook is

- A teacher's edition (representing superset of work that students are using)
- A teacher's guide (providing general guidelines about the curriculum)



# The seasons

When one part of the world is soaking in summer, another part is shivering in winter. This happens because the Earth, which seems to stay still, travels on a long journey around the Sun.

**On the air**  
The Earth is covered but the air around it is not. The air is heated by the sun and the air is called the atmosphere and it keeps us warm. The air is also heated by the sun. The sun is very hot.

**March**  
In spring in the northern hemisphere and autumn in the southern hemisphere.



**Full of life**  
The sun is very hot and the days are long. The sun is very hot and the days are long. The sun is very hot and the days are long.

**March and March**  
The sun is very hot and the days are long. The sun is very hot and the days are long. The sun is very hot and the days are long.

**June**  
The sun is very hot and the days are long. The sun is very hot and the days are long. The sun is very hot and the days are long.

**A year for 365 days**

## 2. Structure and “repurposability”

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### *Structure of HTML content*

- Implement content that is well structured so as to have a reflowable EPUB
- Promote the use of structured semantics such as footnote, assessment, etc



## 2. Structure and “repurposability”

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### *Why there is a need for well-structured content?*



- Well-structured and semantically rich content generates predictability for both humans and machines and it also facilitates remixability.
- How a publisher can detect renewable objects in EPUB is defined in EPUB Distributable Objects specifications.



4. What did the bird want to do with the ribbon?  
5. Think and answer.  
Why did Mummy let the bird keep the ribbon?

### FUN WITH WORDS

C. Write double letters on the blanks to complete the names of these pictures.

	fl _ _ _		wa _ _ _
	le _ _ _		gl _ _ _
	ap _ _ _		sh _ _ _

C. Answer these questions.  
1. Why were the children of Class 2 excited?  
2. How does a gardener help to make our world beautiful?  
3. What does a soldier do for the country?  
4. What does a potter make?  
5. What does an engineer help to make?  
D. Think and answer.  
Why do you think the children were happy before the show started?

### FUN WITH WORDS

E. Fill in the blanks with words from the box.

soldier   policeman   teacher   pilot   doctor

1. I go to a \_\_\_\_\_ if I am ill.

# 3. Scriptable Components

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- Communication application program Interface (API) as well as packaging for interactive constituents in EPUB
- Effort to make it easier for publishers and reading systems
- Incorporation of 3rd party constituents
- Enhanced security as well as performance





## 4. Open Annotations

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- ❑ Crucial missing element: format for interchange
- ❑ EPUB Adaptation of W3C Open Annotation
- ❑ The EPUB adaptation also facilitates bundling of annotations collected
- ❑ Defining target audience

## READ ALOUD

### Sam en Julia

Sam en Julia wonen in Het Muizenhuis, een wereld op zich. Julia woont zeshoog-middenachter. Ze woont daar samen met haar moeder in een heel klein kamertje. Ze heeft geen vader, geen broertjes en zusjes en geen opa en oma. Julia is supernieuwsgierig en reuze-eigenwijs. Ze houdt niet van saai en zodra ze zich verveelt, gaat ze naar buiten. Op avontuur. Met haar vriendje Sam.

## READ ALOUD (HIGHLIGHT)

### Sam en Julia

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## HTML5 - PUZZLE



## 5. LMS integration

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### *IMS Learning Tools Interoperability (LTI) and Outcomes*

- At present, EDUPUB defines Reading System Conformance and content requirements for LTI 1.2/2.0
- Assistance for Caliper and QTI at higher conformance levels (TBD)

## 6. Utilizing other EPUB attributes

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### *Navigation*

- The EPUB Navigation document used for efficient navigation for all users

### *EPUB multiple renditions*

- Bundling of numerous versions of the content is allowed such as fixed, reflowable, etc.
- Examples: reflowable/fixed, multiple languages





# Leverage Our EDUPUB Solutions for Developing & Converting Learning Content



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Advanced features and functions

Economies of scale in relation to design, development, and distribution of digital content in EPUB format.

Consistent presentation across devices

Elimination of variant products for different platforms

Easy LMS integration

Improved assessments, analytics, and outcomes

Easily repurposable content

Facilitated adaptive learning



En un jardín o a medias porque vivía en un departamento pequeño, en un cuarto piso, y no tenía balcon ni terraza. Pero eso le resultaba bastante complicado cosa de hacer sacos en la tierra, colocar las semillas y regarlas hasta que nacieran los primeros brotes. Aun así, cada día dedicaba unas horas a cuidar de las flores que crecían en esas macetas cuidadosamente colocadas en el pequeño salón de su casa. Bueno, no solo en el salón...

Y soñaba. A menudo soñaba con amplias extensiones de tierra fértil. Tierra negra y húmeda que recibía al cielo regando una lluvia de semillas.

# About SunTec Digital

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SunTec Digital is one of the leading providers of end-to-end ePublishing services to authors and publishers across the globe.

Our industry veterans utilize high-end digital and mobile technologies to cater to the unique needs of information providers in IT, publishing, academic, healthcare, insurance, and financial services sector.

Having been in the industry for last 15+ years, we help clients right from converting and producing eBooks through to publishing & distributing content across diverse platforms, and consequently extending their reach as well as improving content profitability.



# Selected Representative Clients

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UPNE

EYROLLES



World Health  
Organization



AVALARDI

**BONNIER**  
Publishing



 University of Virginia Press

# Thank You

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