

# HTML5

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## Design and Implementation of HTML5 based Authoring Tool for Audio-Visual Book

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Portable devices are growth such as smart phone and smart pad and e-book market is also growing, but existing publishers have some problem of conversion paper book to e-book with technology. In this paper propose to solve this problem using HTML5 for E-book making tool. HTML5 is new version of HTML. It can be use video and audio element. Also a lot of web Browser can be use HTML5 format. If we have HTML5 compatible browser devices, we can use anywhere and anytime. We propose video book making tool using these HTML5 characteristics, it is available to support of text or images.

1. mp4, ogg, webm 가 mp3, wav, .

가 가 . 가 ogg 가 HTML5 가 .

가 가 . 가 HTML5 2

가 . 3 HTML5 4

가 가 . 가 2.

가 가 . HTML5

2.1.

가 . 가 .

HTML5[1] HTML HTML (Web publishing), (Online publishing),

. HTML5 HTML 가 HTML5 가 (App publishing)

HTML5 가 HTML5 가

가 2013 PC 가 .

가  
 . PWC [2]  
 2010 2016  
 3,393 , 2011 8.328  
 5,551 , 2010 19.67%  
 [3].  
 CD  
 가  
 XML W3C HTML  
 1996



( 1)

2.2.

playing-book  
 video-book  
 EPUB, PDF, XML, [4].  
 HTML, Flash, E-book application  
 EPUB electronic publication  
 2007 9 . EPUB  
 OCF(Operating Cash Flow), OPF(Open Packaging Format),  
 OPS(Open Publication Structure)  
 OCF EPUB  
 EPUB  
 . OPS  
 . EPUB

가  
 EPUB 3.0 HTML5 2012 5  
 CSS3 [5].  
 Adobe  
 PDF Portable Document Format  
 Systems  
 2006  
 가 .  
 [6].  
 HTML  
 HTML5  
 HTML5 가  
 HTML5  
 가  
 1996  
 가  
 [7].  
 Flash  
 Apple iPhone iPad . E-  
 book application  
 [8].

2.3. HTML5

HTML5 HTML  
 가  
 XML HTML  
 XHTML  
 HTML  
 , , , 가 2004  
 WHATWG  
 HTML HTML WG WHATWG W3C 2007  
 2010 2  
 HTML5  
 가 2014  
 HTML5  
 EPUB, PDF, XML, [4].  
 HTML, Flash, E-book application  
 EPUB electronic publication  
 2007 9 . EPUB  
 OCF(Operating Cash Flow), OPF(Open Packaging Format),  
 OPS(Open Publication Structure)  
 OCF EPUB  
 EPUB  
 . OPS  
 . EPUB  
 HTML5  
 2D 가 가 가  
 (rendering)  
 가  
 OPF SVG(Scalable Vector Graphics) 가  
 XML  
 2 . svg html  
 <circle>, <rect>

css 가 . CSS3[9] Animation, gradient, CSS3 transition, Audio Video . Transform, @font-face tag

가 가 .

### 2.5. JavaScript

Web Sockets . Web Worker

ECMAScript[10] ECMA JavaScript

가 HTML

가

가 OS

가 (thread)

가

Web Storage

key-value / / . querySelector, querySelectorAll

DOM

가

가 .

3D

가

OpenGL ES 2.0

가

, jQuery[11]

3D

가

[1].

HTML5 가

가,

HTML5

### 2.4. CSS3

CSS 1998 ( , TV, )

### 3.

CSS

CSS1, CSS2, CSS3 가

Microsoft Corporation 가

C#

.NET

CSS

C#

NET

TV

가

가

HTML5 가

, CSS3

Adobe Edge[12]

CreateJS[13]

HTML5

HTML5

RevealJS[14]

### 3.1.

HTML5

, CSS3

, CSS

HTML

Text Box

가

. ebnk

. HTML HTML

. CSS3

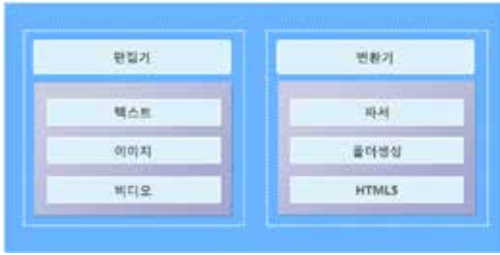
가

image

video

가

HTML



( 2 )

3.2.

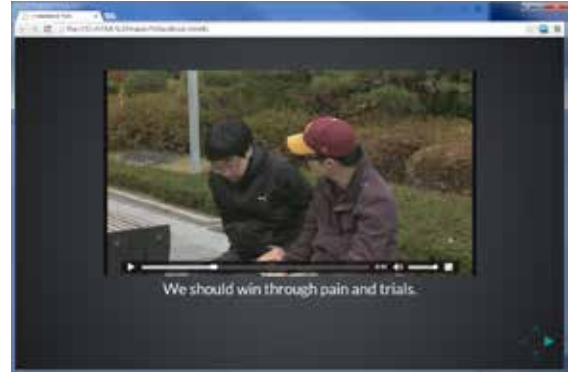
Text Box  
Image, Video  
가

3

5 HTML

가

HTML5



( 5 )

4.

HTML5

가

가

가

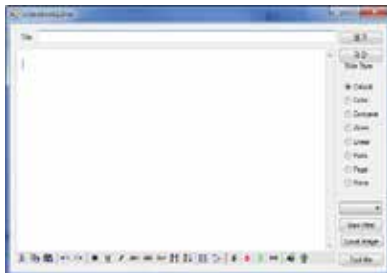
HTML

가

가 가

가

가



( 3 )

3.3.

HTML

HTML

가

Text Box Image, Video

가

HTML5

<video>

video

video

src

4

HTML  
가

가



( 4 )

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