



EDTA, iText and INBATEK Conference

Bangkok, July 27, 2017

Three major ways to create PDF

- ☰ From scratch using iText objects:
 - ☰ Paragraph, Text, Table, Cell, List,...
 - ☰ Advantage: everything is programmable, hence configurable just the way you want it,
 - ☰ Disadvantage: you need to program everything; small changes need programming.
- ☰ Using an existing template:
 - ☰ AcroForm technology: fast, easy, but not dynamic (all fields have fixed positions),
 - ☰ XFA technology: dynamic, filling is easy, but form creation is complex, deprecated in PDF 2.0!
- ☰ By converting HTML + CSS to PDF:
 - ☰ Everyone knows HTML! Everyone knows CSS!
 - ☰ Why would you create a template in another (proprietary?) format?
 - ☰ Create content in HTML, convert to PDF with pdfHTML.



CSS examples

- No CSS,
- Inline CSS,
- Header CSS,
- External CSS.

No CSS: HTML + pdfHTML code

```
<html>
  <head>
    <title>Colossal</title>
    <meta name="description" content="Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home after her boyfriend leaves her."/>
  </head>
  <body>
    
    <h1>Colossal (2016)</h1>
    <i>Directed by Nacho Vigalondo</i>
    <div>Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home after her boyfriend leaves her. Read more about this movie on <a href="http://www.imdb.com/title/tt4680182">IMDB</a></div>
  </body>
</html>
```

```
public void createPdf(String src, String dest) throws IOException {
    HtmlConverter.convertToPdf(new File(src), new File(dest));
}
```

No CSS: result

The diagram illustrates the conversion of a web page's content into a PDF file. On the left, a screenshot of a web browser shows a movie listing for "Colossal (2016)". The browser's address bar indicates the URL is "file:///D:/itext7-samples/examples/src/main/resources/html/colossal.html". The page content includes the movie title, a brief plot summary, and a link to IMDB. A large blue curved arrow points from the browser window down to a screenshot of the resulting PDF document on the right. The PDF document retains the same structure and visual elements as the original web page, including the movie title, plot description, and the IMDB link.

Colossal (2016)

Directed by Nacho Vigalondo
Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon.
Read more about this movie on [IMDB](#)

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Read more about this movie on [IMDB](#)

Inline CSS: HTML + pdfHTML code

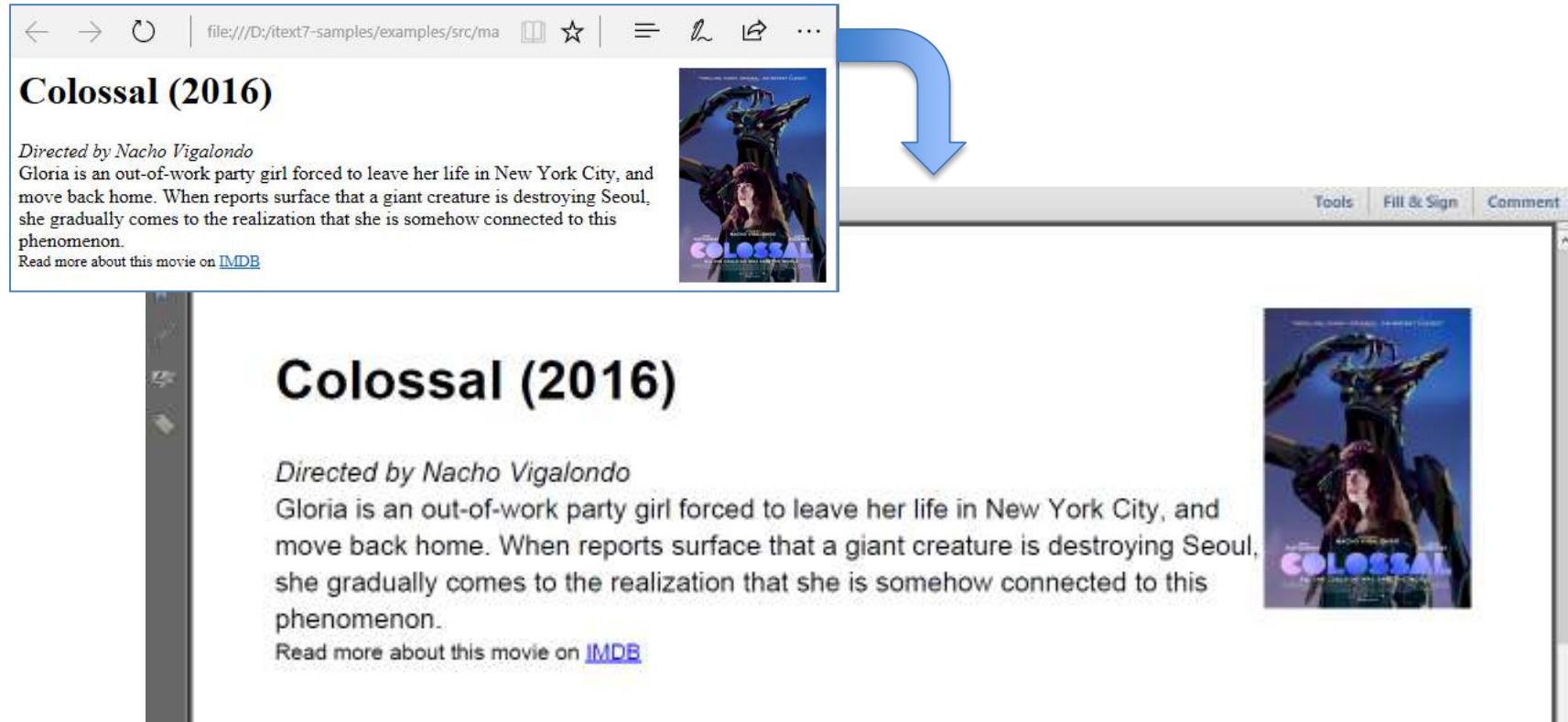
```
<html>
<head>
<title>Colossal</title>
<meta name="description" content="Gloria is an out-of-work party girl forced to leave her life in New York City, and
</head>
<body>

<h1>Colossal (2016)</h1>
<div style="font-style: italic">Directed by Nacho Vigalondo</div>
<div>Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports
<div style="font-size: 0.8em">Read more about this movie on <a href="www.imdb.com/title/tt4680182">IMDB</a></font>
</body>
</html>
```



```
public void createPdf(String src, String dest) throws IOException {
    HtmlConverter.convertToPdf(new File(src), new File(dest));
}
```

Inline CSS: result



← → ⌂ | file:///D:/itext7-samples/examples/src/main/resources/ma | | ...

Colossal (2016)

Directed by Nacho Vigalondo
Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon.
Read more about this movie on [IMDB](#)



Tools | Fill & Sign | Comment

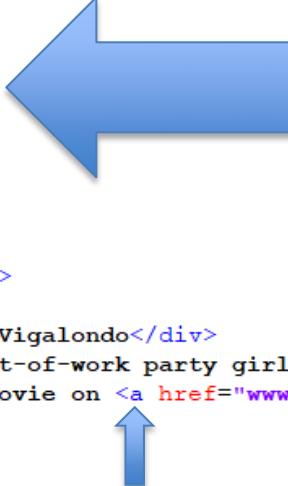
Colossal (2016)

Directed by Nacho Vigalondo
Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon.
Read more about this movie on [IMDB](#)



Header CSS: HTML + pdfHTML code

```
<html>
  <head>
    <title>Colossal</title>
    <meta name="description" content="Gloria is an out-of-work party girl forced to leave her life in New York City."/>
    <style>
      .poster { width: 120px; float: right; }
      .director { font-style: italic; }
      .description { font-family: serif; }
      .imdb { font-size: 0.8em; }
      a { color: red; }
    </style>
  </head>
  <body>
    
    <h1>Colossal (2016)</h1>
    <div class="director">Directed by Nacho Vigalondo</div>
    <div class="description">Gloria is an out-of-work party girl forced to leave her life in New York City.</div>
    <div class="imdb">Read more about this movie on <a href="www.imdb.com/title/tt4680182">IMDB</a></div>
  </body>
</html>
```



```
public void createPdf(String src, String dest) throws IOException {
    HtmlConverter.convertToPdf(new File(src), new File(dest));
}
```

Header CSS: result

← → ⌂ file:///D:/itext7-samples/examples/src/main/resources/ma 📄 ⭐ | ⚙ 🔍 ...

Colossal (2016)

Directed by Nacho Vigalondo
Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon.
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Tools Fill & Sign Comment

Colossal (2016)

Directed by Nacho Vigalondo
Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon.
Read more about this movie on [IMDB](#)

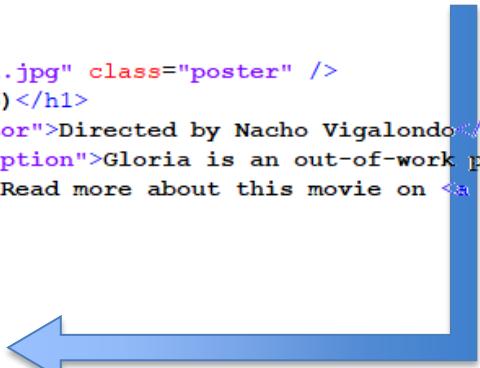


External CSS: HTML + pdfHTML code

```
<html>
<head>
<title>Colossal</title>
<meta name="description" content="Gloria is an out-of-work party girl forced to leave her life in New Yo:
<link rel="stylesheet" type="text/css" href="movie.css">
</head>
<body>

<h1>Colossal (2016)</h1>
<div class="director">Directed by Nacho Vigalondo</div>
<div class="description">Gloria is an out-of-work party girl forced to leave her life in New York City, :
<div class="imdb">Read more about this movie on <a href="www.imdb.com/title/tt4680182">IMDB</a></div>
</body>
</html>

.poster {
    width: 120px;
    float: right;
}
.director {
    font-style: italic;
}
.description {
    font-family: serif;
}
.imdb {
    font-size: 0.8em;
}
a {
    color: green;
}
```



```
public void createPdf(String src, String dest) throws IOException {
    HtmlConverter.convertToPdf(new File(src), new File(dest));
}
```

External CSS: result

Colossal (2016)

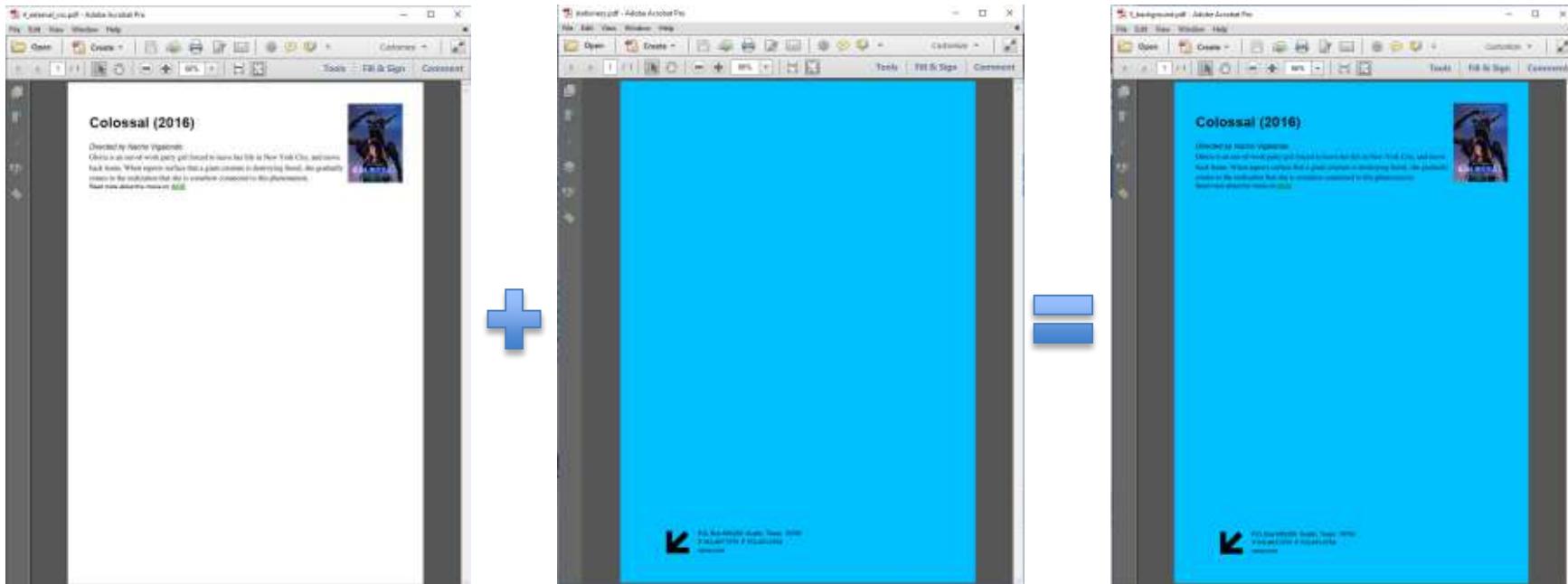
Directed by Nacho Vigalondo
Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon.
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Colossal (2016)

Directed by Nacho Vigalondo
Gloria is an out-of-work party girl forced to leave her life in New York City, and move back home. When reports surface that a giant creature is destroying Seoul, she gradually comes to the realization that she is somehow connected to this phenomenon.
Read more about this movie on [IMDB](#)

Adding a background



Background

```
class Background implements IEventHandler {
    PdfXObject stationery;

    public Background(PdfDocument pdf, String src) throws IOException {
        PdfDocument template = new PdfDocument(new PdfReader(src));
        PdfPage page = template.getPage(1);
        stationery = page.copyAsFormXObject(pdf);
        template.close();
    }

    @Override
    public void handleEvent(Event event) {
        PdfDocumentEvent docEvent = (PdfDocumentEvent) event;
        PdfDocument pdf = docEvent.getDocument();
        PdfPage page = docEvent.getPage();
        PdfCanvas canvas = new PdfCanvas(page.newContentStreamBefore(), page.getResources(), pdf);
        canvas.addXObject(stationery, 0, 0);
    }
}
```

Use in the context of pdfHTML

- Other convertToPdf() method: FileInputStream and PdfDocument
- Why do we need ConverterProperties?

```
public void createPdf(String src, String stationery, String dest) throws IOException {  
    PdfWriter writer = new PdfWriter(dest);  
    PdfDocument pdf = new PdfDocument(writer);  
    IEventHandler handler = new Background(pdf, stationery);  
    pdf.addEventHandler(PdfDocumentEvent.START_PAGE, handler);  
    ConverterProperties properties = new ConverterProperties();  
    properties.setBaseUri(new File(src).getParentFile().getAbsolutePath());  
    HtmlConverter.convertToPdf(new FileInputStream(src), pdf, properties);  
}
```



Use case: invoices

For every customer you need:

- Raw data that can be converted to simple HTML
- A customer-provided CSS to apply styles
- A customer-provided PDF as company stationery

ZUGFeRD examples

The screenshot shows a browser window with the URL <http://developers.itextpdf.com/content/zugferd-future-invoicing/6-creating-html-invoices>. The page displays a ZUGFeRD invoice template. At the top, it says "Our Company". Below that is the section "INVOICE I/00004". Underneath is the date "2015-04-01". The "From:" field contains "Our Company" with address details: ZUG Business Center, Highway 1, BE-9000 Ghent, PC: 301/113/0209, VA: BE123456789. The "To:" field is "Summer, Bill" with address: 362 - 20th Ave., BE-9000 Ghent. A table follows, showing items like Running jersey, Golf polo, Threadmill, Pro steel dartboard, My First Cookbook, and Golf kit with their respective details. Below the table is another table for taxes: VAT 6.00, VAT 21.00, and Grand total: 1247.44. At the bottom, there's a note about bank wire transfer and two bank account entries: KBC and BNP Paribas.

Figure 6.2: HTML + CSS version of an invoice

Now we're getting somewhere, aren't we? In our XSL, we've added some `id` and some `class` attributes, so that we can refer to these elements from a simple CSS file:

The screenshot shows Adobe Acrobat Pro with a PDF document open. The PDF is identical to the one in Figure 6.2, featuring the "Our Company" header, "INVOICE I/00004" section, "2015-04-01" date, and the same "From:" and "To:" fields. It includes the same item table and tax table. On the left side of the Acrobat interface, the "Structure" panel is visible, showing the hierarchical structure of the PDF document, including sections like "Document", "Page", "Image", "Text", "Form", "Table", "List", "Figure", and "Page-Header".

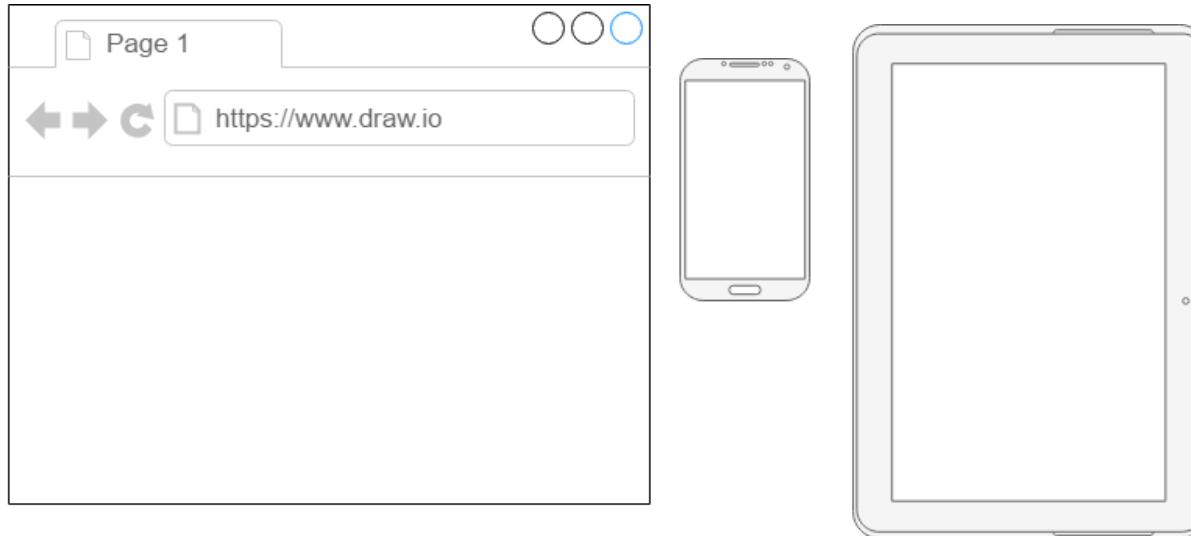
Figure 7.1: a ZUGFeRD invoice created from HTML



Responsiveness: HTML vs PDF

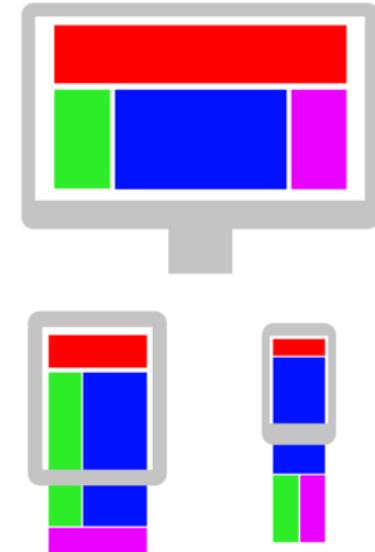
HTML and different devices

☰ When creating an HTML + CSS file, you don't always know how it will be viewed:



HTML and different devices

- The content can be rendered differently based on the device:
 - Header, main, left and right pane can be reorganized based on available space
 - Navigation can be different on different devices
 - Orientation can change (e.g. turn tablet from portrait to landscape)
- You can change the rendering based on Media Queries
 - Change font, widths, image size, positions,...
 - Desktop screens: horizontal placement, smaller font-size,...
 - Mobile screen: larger font size, vertical flow,...
 - Print: hide interactive and animated features, use less color,...



Example HTML

```
<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" type="text/css" href="responsive.css"/>
    <!-- Based on the responsive design example found at https://www.w3schools.com/css/css_rwd_intro.asp -->
</head>
<body>
    <div class="header">
        <h1>iText</h1>
    </div>
    <div class="container">
        <div class="one_col_1_m col_1 menu">
            <ul>
                <li>The Platform</li>
                <li>The Library</li>
                <li>The Company</li>
            </ul>
        </div>
        <div class="two_col_3_m col_3">
            <h2>The Library</h2>
            <p>iText is a software developer toolkit that allows users to integrate PDF functionalities within their applications, processes or products.</p>
        </div>
        <div class="three_col_4_m col_1">
            <div class="aside">
                <h3>What?</h3>
                <p>iText is a software developer toolkit that allows users to integrate PDF functionalities within their applications</p>
                <h3>How?</h3>
                <p>By providing you with the tools to create and manipulate a pdf in your source code</p>
                <h3>Really?</h3>
                <p>Yes really!</p>
            </div>
        </div>
    </div>
</body>
<div class="content">
    <div class="header">Some filler text</div>
    <p>
        Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras et ex arcu, varius a lacus et malesuada tempor massa. Nam etiam elementum rutrum enim vel ultricies. Suspendisse laoreet erit ac posuere fringilla porta. Nam dignissim metus eget metus accumsan porta. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere malesuada fames ac haec habitasse platea dictumst. Cras semper mi ullamcorper velit malesuada tempus.
    </p>
    <p>
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    </p>
    <p>
        Amet in malesuada porta. Conatur et mi tempus nihil aliquip magna. Praesent venenatis est sit amet mauris opus etiam. Proin fringilla leo enim, sit amet euismod justo paleothesque ut. Etiam dignissim nullis id dui porta posuere. Nam posuere pulvinar eruditus. Etiam consetetur natus et posuere fringilla. Cras sit amet enim commodo, metus enim condimentum, vestibulum porta. Nam vivat pulvinar ipsum, non sodales ligula maximus et. Mauris libero leo, ultricies sit amet et non, venenatis paleothesque non. Vestibulum videntur mauris et posuere laorem. Vivamus consetetur nisl null, id euismod augue scelerisque non. Praesent blandit malesuada tristique. Aliquam sed leo tincidunt tortor facilisis convallis. Donec quis aliquip velit.
    </p>
    <div class="header">Some small input form</div>
    <div class="content">
        <div class="col_2_m col_2">
            First name: <input type="text" name="FirstName" value="Looney"><br>
            Last name: <input type="text" name="LastName" value="Tunes"><br>
        </div>
        <div class="col_2_m col_2">
            Occupation: <input type="text" name="Occupation" value="Palladin"><br>
            Hobbies: <input type="text" name="Hobbies" value="Beagle Hunting"><br>
        </div>
    </div>
</div>
</body>
</html>
```

Example HTML

The screenshot displays four versions of a web page template, each showing different content and styling, converted into PDF documents.

Version 1 (Left): Shows a simple layout with a header, a main content area containing a "The Library" section, and a footer. The "The Library" section includes a "What?", "How?", and "Really?" section, and a "Some filler text" section at the bottom.

Version 2 (Second from Left): Shows a similar layout but with more detailed content in the "The Library" section, including a "Really?" section with a "Yes really!" link.

Version 3 (Third from Left): Shows a layout with a large central "The Library" section containing a "What?", "How?", and "Really?" section, and a "Some filler text" section at the bottom.

Version 4 (Right): Shows a layout with a large central "The Library" section containing a "What?", "How?", and "Really?" section, and a "Some filler text" section at the bottom. It also includes a "Some small input forms" section with two input fields: "First name" (Lenny) and "Last name" (Lester).

HTML Structure:

```
<div><h1>The Library</h1><div><h2>What?</h2><p>iText is a software developer toolkit that allows users to integrate PDF functionalities within their applications, processes or products.</p><h2>How?</h2><p>By providing you with the tools to create and manipulate a pdf in your source code</p><h2>Really?</h2><p>Yes really!</p><div><h3>Some filler text</h3><p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent et mi tempus nibh aliquam congue. Praesent venenatis est sit amet mauris egestas accumsan. Proin fringilla leo enim, sit amet euismod justo pellentesque ut. Etiam dignissim nulla id dui porta posuere. Etiam posuere pulvinar suscipit. Donec consectetur massa at postore finibus. Cras sit amet enim commodo, molestie urna condimentum, vestibulum justo. Mauris viverra pulvinar ipsum, non sodales ligula maximus et. Mauris libero leo, ultricies sit amet est non, venenatis pellentesque urna. Vestibulum tincidunt mauris ac posuere lacinia. Vivamus consectetur nisi elit, id euismod neque scelerisque non. Praesent tincidunt malesuada tristique. Aliquam sed leo tincidunt tortor facilisis convallis. Donec quis aliquam velit.</p><div><h3>Some small input forms</h3><table><tr><td>First name:</td><td>Lenny</td></tr><tr><td>Last name:</td><td>Lester</td></tr><tr><td>Occupation:</td><td>Software Developer</td></tr><tr><td>Hobbies:</td><td>Dragon Hunting</td></tr></table></div></div>
```

Media Queries in CSS

```
/*Dynamic sizing*/
[class*="col-"]{
    width: 100%;
}

/*Mobile*/
@media only screen{
    p{
        font-size: 24pt;
    }

    h1{
        font-size: 36pt;
    }

    h2{
        font-size: 28pt;
    }
}

/*Tablet*/
@media only screen and (min-width: 600px) {
    .col-1-m {width: 24.9%;}
    .col-2-m {width: 49.9%;}
    .col-3-m {width: 74%;}
    .col-4-m {width: 99%;}

    p{
        font-size: 16pt;
    }

    h1{
        font-size: 24pt;
    }

    h2{
        font-size: 18pt;
    }
}

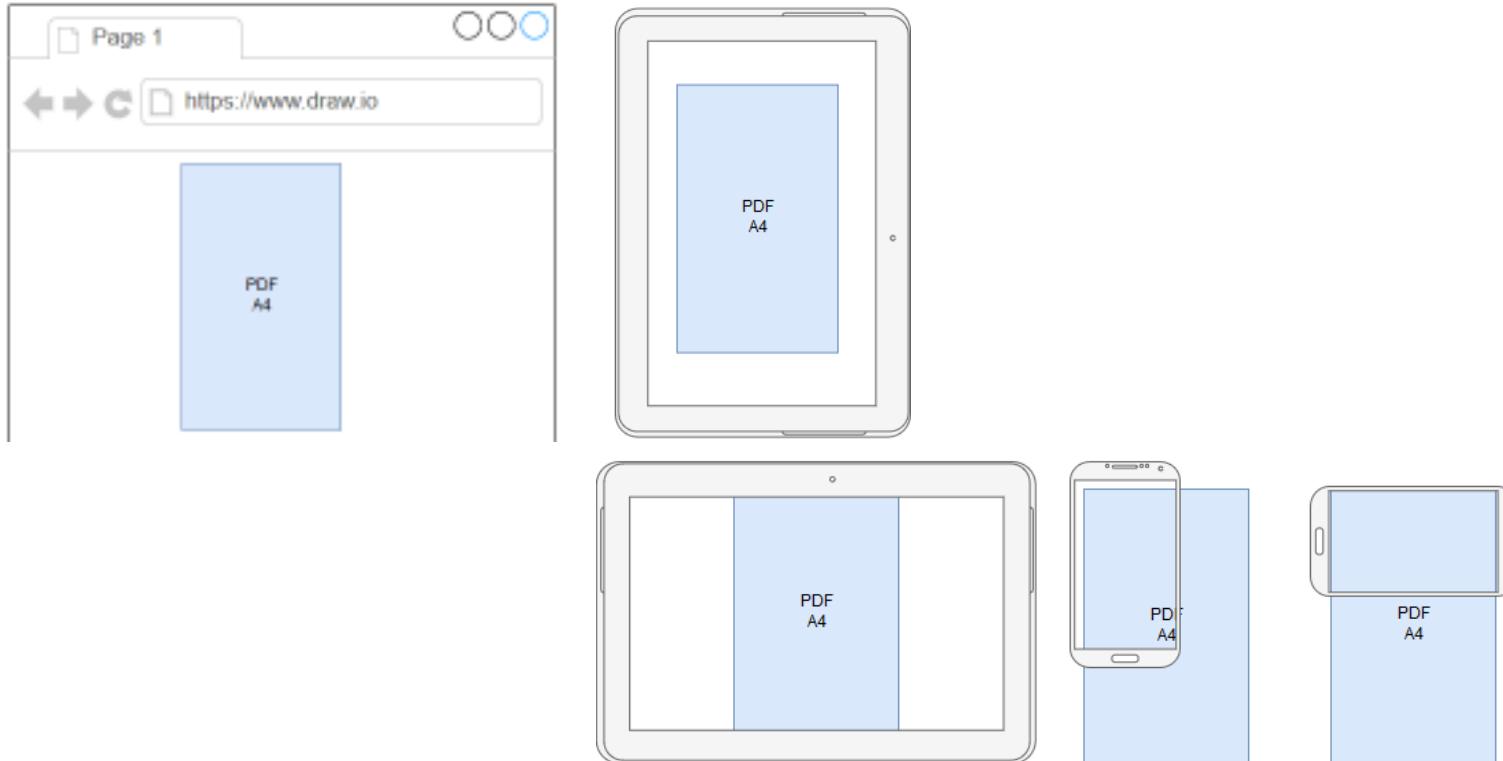
/*Desktop*/
@media only screen and (min-width: 768px ) {
    .col-1 {width: 24.9%;}
    .col-2 {width: 33.32%;}
    .col-3 {width: 49%;}
    .col-4 {width: 99%;}

    p{
        font-size: 12pt;
    }

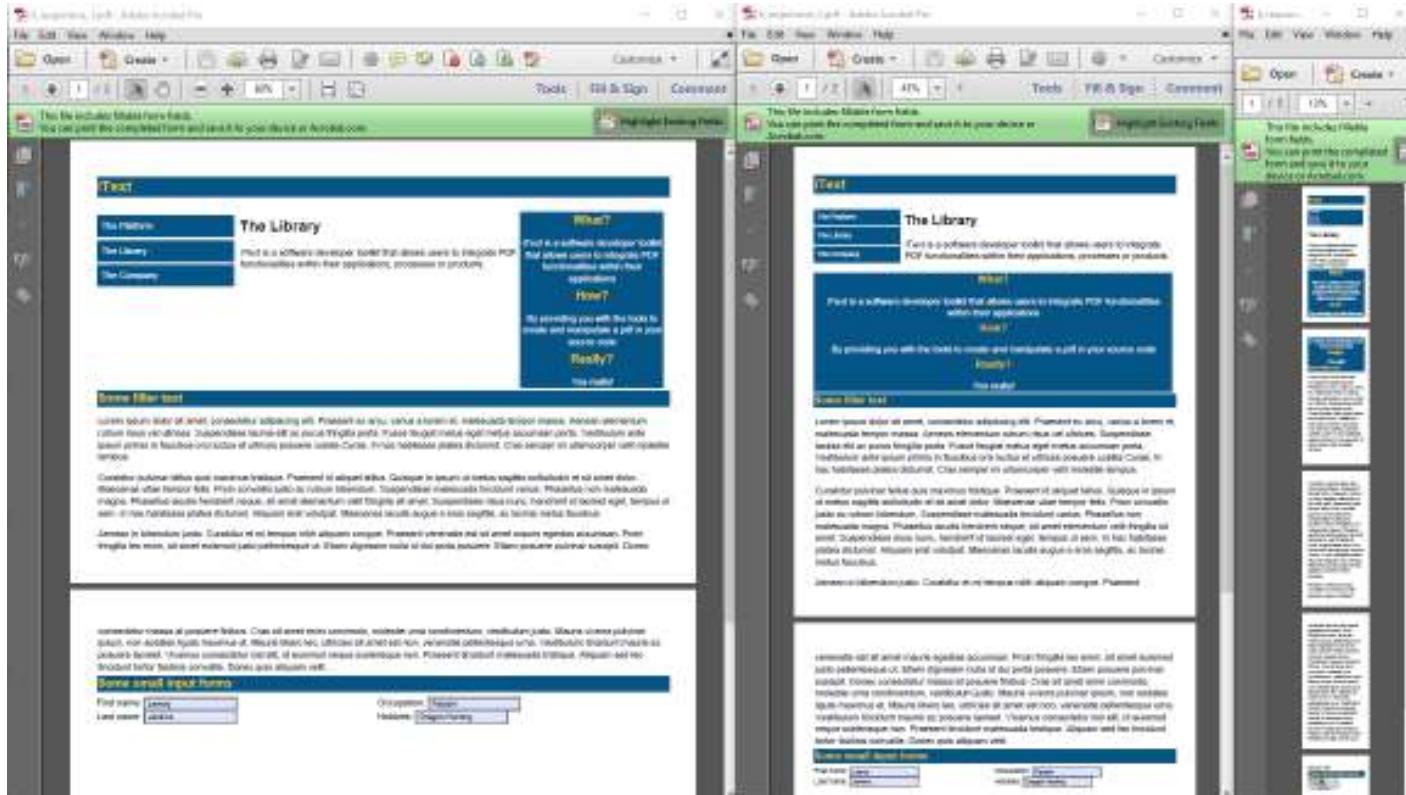
    h1{
        font-size: 20pt;
    }

    h2{
        font-size: 16pt;
    }
}
```

The problem with PDF on devices



Convert to different PDFs



Defining different page sizes

Introducing:

Tagging

Page sizes

Media Device Description

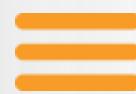
Create form

```
public static final PageSize[] pageSizes = {
    PageSize.A4.rotate(),
    new PageSize(720, PageSize.A4.getHeight()),
    new PageSize(PageSize.A5.getWidth(), PageSize.A4.getHeight())
};

public static void main(String[] args) throws IOException {
    LicenseKey.LoadLicenseFile(System.getenv("ITEXT7_LICENSEKEY") + "/itextkey"
    File file = new File(DEST);
    file.getParentFile().mkdirs();
    E06_MediaQuery app = new E06_MediaQuery();
    int count = 1;
    for (PageSize size : pageSizes) {
        app.createPdf(SRC, String.format(DEST, count++), size);
    }
}

public void createPdf(String src, String dest, PageSize size) throws IOException {
    PdfWriter writer = new PdfWriter(dest);
    PdfDocument pdf = new PdfDocument(writer);
    pdf.setTagged();
    pdf.setDefaultPageSize(size);

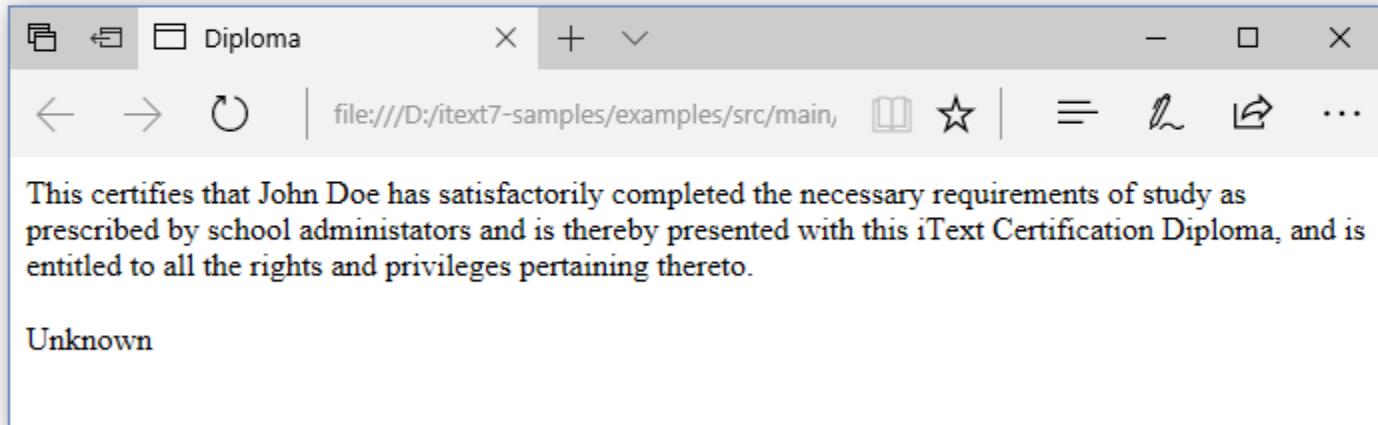
    ConverterProperties properties = new ConverterProperties();
    properties.setBaseUri(new File(src).getParentFile().getAbsolutePath());
    MediaDeviceDescription mediaDescription = new MediaDeviceDescription(MediaType.SCREEEN);
    mediaDescription.setWidth(CssUtils.parseAbsoluteLength(String.valueOf(size.getWidth())));
    properties.setMediaDeviceDescription(mediaDescription);
    properties.setCreateAcroForm(true);
    HtmlConverter.convertToPdf(new FileInputStream(src), pdf, properties);
}
```



Create your own tags

Tags student and date don't exist

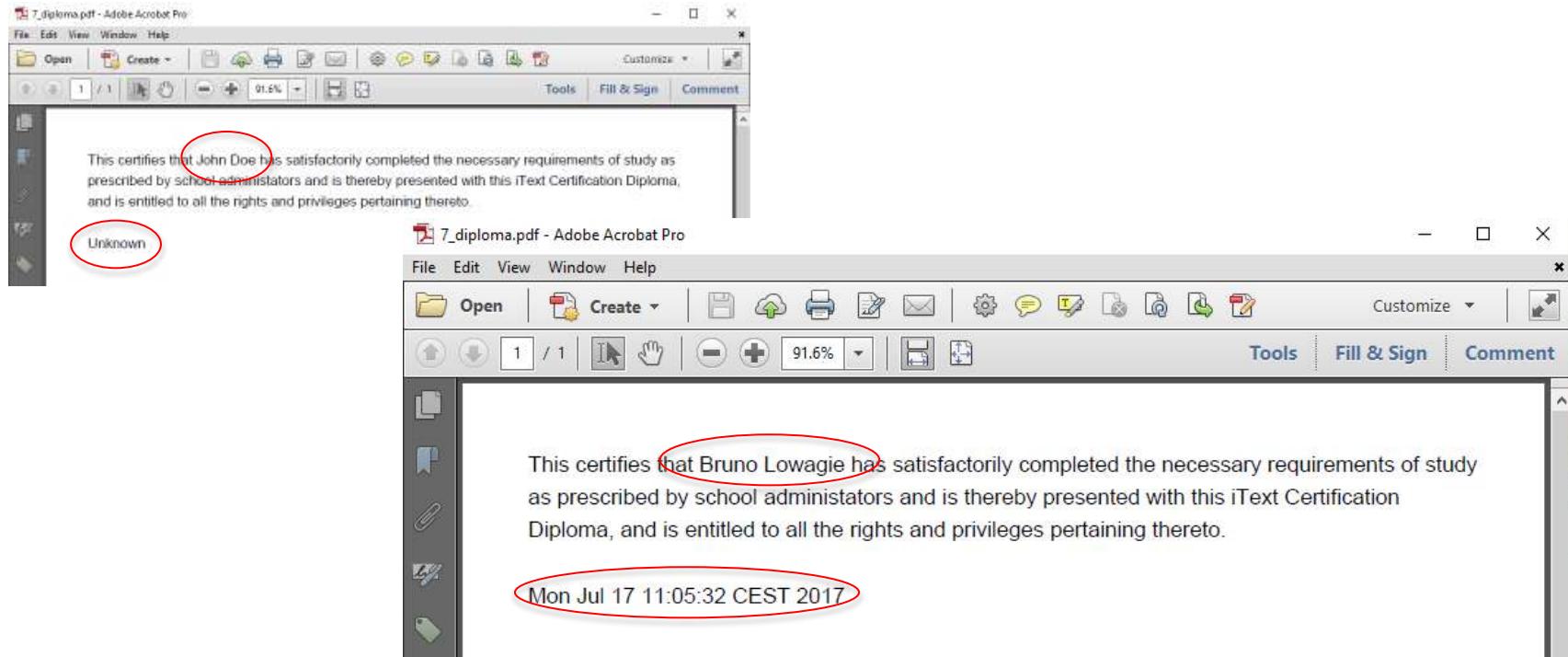
```
<html>
<head><title>Diploma</title></head>
<body>This certifies that <student>John Doe</student> has satisfactorily completed
the necessary requirements of study as prescribed by school administrators and
is thereby presented with this iText Certification Diploma, and is entitled to
all the rights and privileges pertaining thereto.<br><br><date>Unknown</date></body>
</html>
```



Extend the tag factory

```
public void createPdf(String src, String dest) throws IOException {
    ConverterProperties converterProperties = new ConverterProperties();
    converterProperties.setTagWorkerFactory(
        new DefaultTagWorkerFactory() {
            @Override
            public ITagWorker getCustomTagWorker(IElementNode tag, ProcessorContext context) {
                if ("student".equalsIgnoreCase(tag.name()) ) {
                    return new SpanTagWorker(tag, context) {
                        @Override
                        public boolean processContent(String content, ProcessorContext context) {
                            super.processContent("Bruno Lowagie", context);
                            return true;
                        }
                    };
                }
                else if ("date".equalsIgnoreCase(tag.name()) ) {
                    return new SpanTagWorker(tag, context) {
                        @Override
                        public boolean processContent(String content, ProcessorContext context) {
                            super.processContent(new Date().toString(), context);
                            return true;
                        }
                    };
                }
                return null;
            }
        );
    HtmlConverter.convertToPdf(new FileInputStream(src), new FileOutputStream(dest), converterProperties);
}
```

Custom tags: custom functionality



CSS applier needed

```
<terminated> E07_Diploma [Java Application] C:\Program Files\Java\jdk1.8.0_121\bin\javaw.exe (Jul 17, 2017, 2:23:59 PM)
14:23:59.762 [main] ERROR c.i.h.a.impl.DefaultHtmlProcessor - No css applier found for tag student
14:23:59.762 [main] ERROR c.i.h.a.impl.DefaultHtmlProcessor - No css applier found for tag date
```

☰ More elaborate example: QR Code

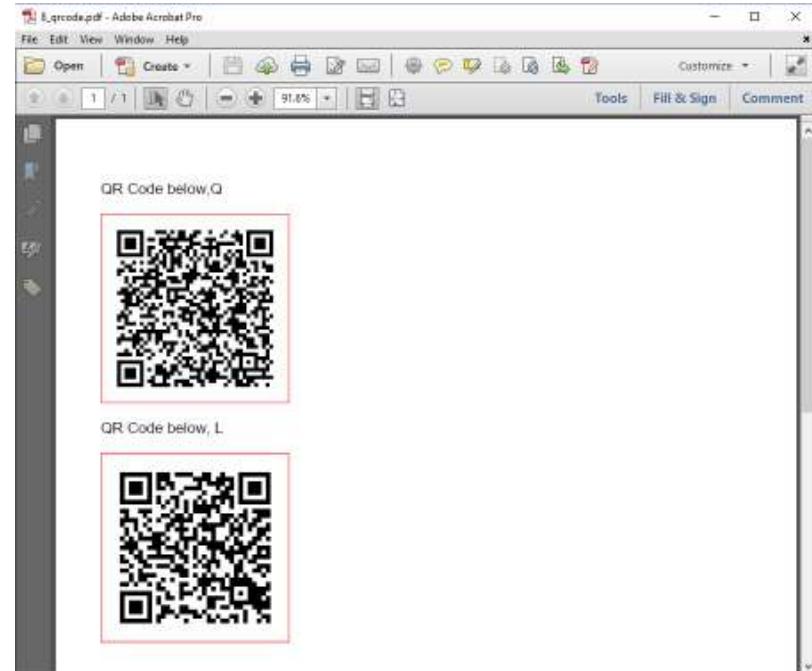
- ☰ QRCodeTagCssApplierFactory extends DefaultCssApplierFactory
- ☰ QRCodeTagWorkerFactory extends DefaultTagWorkerFactory
- ☰ QRCodeTagWorker implements ITagWorker

HTML + CSS => PDF

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>QRCode Example</title>
    <link rel="stylesheet" type="text/css" href="qrcode.css"/>
</head>
<body>
    <p>QR Code below, Q </p>
    <qr charset="Cp437" errorcorrection="Q">
        With great power comes great current squared times resistance
    </qr>

    <p>QR Code below, L</p>
    <qr charset="Cp437" errorcorrection="L">
        With great power comes great current squared times resistance
    </qr>
</body>
</html>

qr{
    border:solid 1px red;
    height:200px;
    width:200px;
}
```



The logo for iText DITO. It features three horizontal orange bars of increasing length from left to right, followed by the text "iText DITO" in a large, dark blue, sans-serif font.

iText DITO

Under development

Design Interactive Templates Online

The screenshot shows a user interface for designing interactive templates online. On the left, a sidebar lists project files: 'Invoice2' (selected), 'Page', 'Text 2', and 'OrderTable'. The main workspace displays an invoice template for 'iText Group NV'. The header includes the company name, address ('Business Center "De Punt"', 'Kerkstraat 108', '9050 Gentbrugge (Ghent)', 'Belgium'), website ('http://itextpdf.com/'), email ('sales.itext@itextpdf.com'), and phone number ('+32 9 298 02 31'). It also shows a due date of '2018-01-30'. The right side of the header contains payment information: 'send payment to' (Account: 236799, IBAN: NL25ABNA0547348536, BIC: DEBNLVLS). The main content area features a large orange 'Invoice' title and the date '2015-12-01'. Below this is a table of items:

Item	Quantity	Price	Linetotal
Red ball	1	100	100
Green ball	2	100	200
Orange ball	20	50	1000
Purple ball	1	500	500
		SUBTOTAL	1800
		DISCOUNT	90
		SHIPPING	20
		TOTAL	1760

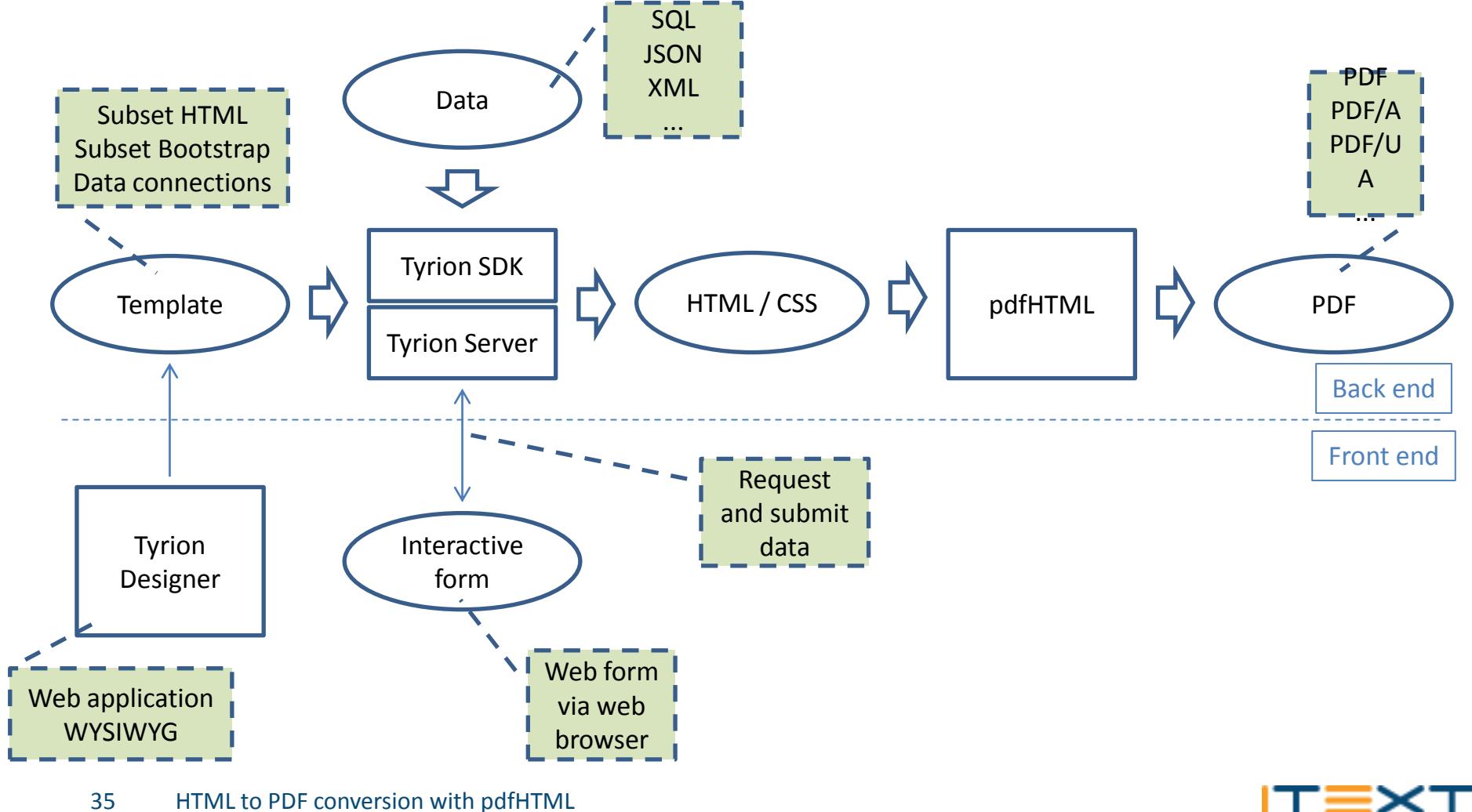
The right panel contains two sections: 'Properties' and 'Data'. The 'Properties' section shows the template is named 'Invoice2', located at '/', uses 'Invoice2' as the data source template, and outputs to 'web-HTML5'. The 'Data' section lists variables: 'invoiceDate', 'identifier', 'paymentDueDate', and 'accountId'.

Design Interactive Templates Online

The screenshot shows the PdfHTML editor interface. On the left, a sidebar lists components: 'Invoice2' (selected), 'Page', 'Text 2', and 'OrderTable'. The main area displays an invoice template for 'iText Group NV'. The header includes the company name, address ('Business Center "De Punt"', 'Kerkstraat 108', '9050 Gentbrugge (Ghent)', 'Belgium'), website ('http://itextpdf.com/'), email ('sales.itextpdf.com'), and phone ('+32 9 298 02 31'). It also shows a due date of '2018-01-30'. The body starts with 'To client:' followed by dynamic fields: '[invoiceDate]', '[customer.name]', and '[customer.address.postalCode]'. Below this is a table with columns 'Item', 'Quantity', 'Price', and 'LineTotal'. The table contains two items: 'Red ball' (1 unit, 100 price) and 'Green ball' (2 units, 100 price). The total row shows 'TOTAL' as 260. The footer expresses gratitude and asks for payment within 21 days. On the right, a sidebar shows 'Data Source Template' set to 'invoice2', 'Output Language' as 'English', and 'Output Type' as 'web-HTML5'. A 'Data' panel lists various variables like 'invoiceDate', 'identifier', 'paymentDueDate', etc.

Item	Quantity	Price	LineTotal
Red ball	1	100	100
Green ball	2	100	200
	SUBTOTAL		300
	DISCOUNT		60
	SHIPPING		20
	TOTAL		260

thank you very much. We really appreciate your business
Please send payment within 21 days of receiving this invoice



<Name> iTEXT

<Address>

<Invoice items table
(4 cols, headers, ...)>

<Total>

Data



Tyrion SDK

Tyrion Server

Tyrion
Designer

Web application
WYSIWYG

Raf Hens

iTEXT

Kerkstraat 108

9050 Gentbrugge

item	qty	price	tot
------	-----	-------	-----

Item A	4	100	400
Item B	1	10	10
Item C	17	45	765
Item D	2	50	100
Item E	1	70	70
Item F	4	250	1000
Item G	5	100	500
Item H	12	3	36
Item I	1	100	100
Item J	1	35	35
Item K	1	250	250

3266.

pdfHTML

Raf Hens

iTEXT

Kerkstraat 108

9050 Gentbrugge

item	qty	price	tot
------	-----	-------	-----

Item A	4	100	400
Item B	1	10	10
Item C	17	45	765
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Item E	1	70	70
Item F	4	250	1000
Item G	5	100	500

p 1/2

item	qty	price	tot
Item H	12	3	36
Item I	1	100	100
Item J	1	35	35
Item K	1	250	250

3266.



Thank you!