



OASIS ODF TC Github

LibreOffice Con

15.10.2020

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OASIS ODF TC Github

Who am I

- My Anniversary:
Started exactly 21-year ago @StarOffice, Hamburg

OASIS ODF TC Github

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OASIS ODF TC Github

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OASIS ODF TC Github

Who am I

- My Anniversary:
Started exactly 21-year ago @StarOffice, Hamburg
- “Maintainer” of TDF ODF Toolkit
- OASIS ODF TC co-editor (since 2020/08)
- OASIS ODF TC co-chair (since 2020/09)

OASIS ODF TC Github

Reason of the ODF TC

- ODF Technical Committee (TC) is maintaining the ODF specification

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Reason of the ODF TC

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- ODF specification being the **blueprint** for ODF applications

OASIS ODF TC Github

Reason of the ODF TC

- ODF Technical Committee (TC) is maintaining the ODF specification
- ODF specification being the **blueprint** for ODF applications
- ODF applications should be **interoperable** (behave the same way) to create an **Ecosystem**

OASIS ODF TC Github

ODF TC Process (Simplified)

- ODF Technical Committee (TC) meets weekly
 - **JIRA issues** are being discussed
 - **Resolution** are being collected in JIRA issue
- Editor overtakes JIRA resolution into **ODT document**

OASIS ODF TC Github

ODF TC Process (Simplified)

- ODF Technical Committee (TC) meets weekly
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- What about GitHub issues?
 - JIRA for the semantic of ODF features
 - GitHub for editorial changes

OASIS ODF TC Github

Why Version Control (GitHub)?

- Collaboration on “Blueprint of Software”
<https://github.com/oasis-tcs/odf-tc>
 - Collect all Deliverables (ODT, RNG, OWL)
 - ODT -> PDF, HTML
 - RNG -> **RNG-HTML**

OASIS ODF TC Github

New Deliverable: RelaxNG in HTML

```
← → ↻ 🏠 🔒 oasis-tcs.github.io/odf-tc/odf1.3/csd03/OpenDocument-v1.3-csd03-schema-rng.html#175-178
157 <rng:interleave>
158   <rng:attribute name="smil:type">
159     <rng:ref name="string"/>
160   </rng:attribute>
161   <rng:optional>
162     <rng:attribute name="smil:subtype">
163       <rng:ref name="string"/>
164     </rng:attribute>
165   </rng:optional>
166   <rng:optional>
167     <rng:attribute name="smil:direction">
168       <rng:choice>
169         <rng:value>forward</rng:value>
170         <rng:value>reverse</rng:value>
171       </rng:choice>
172     </rng:attribute>
173   </rng:optional>
174   <rng:optional>
175     <rng:attribute name="smil:fadeColor">
176       <rng:ref name="color"/>
177     </rng:attribute>
178   </rng:optional>
179   <rng:optional>
180     <rng:attribute name="smil:mode">
181       <rng:choice>
182         <rng:value>in</rng:value>
183         <rng:value>out</rng:value>
```

<https://oasis-tcs.github.io/odf-tc/odf1.3/csd03/OpenDocument-v1.3-csd03-schema-rng.html#175-178>

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 - Collect all Tooling
 - XSL Transformation of ODT to HTML
 - Extract Default Values from ODT (via XSLT)

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 - Enable Reviews (4-eye-principle & automated)
 - E.g. GitHub Diff of ODT (unzipped & pretty-printed XML)
 - Pre-Commit Hook: Default Value regression test

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 - Pre-Commit Hook: Default Value regression test
 - Automate OASIS Release Process

OASIS ODF TC Github

Why Version Control (GitHub)?

- <https://github.com/oasis-tcs/odf-tc>
 - Maven Standard Directory Layout:
 - **/docs** = <https://oasis-tcs.github.io/odf-tc/>
 - **/src/main** = Deliverables
 - **/src/test** = Tooling & Tests

OASIS ODF TC Github

Why Version Control (GitHub)?

- Automate OASIS Release Process

<https://github.com/oasis-tcs/odf-tc>

- **OASIS provides ODT Template** (Look & Feel)
- **OASIS receives ZIP** with Deliverables (TC Release)
 - **Problem:** Within deliverables:
Dates, OASIS Release IDs & URLs, Names changing from release version to version
 - **Solution:** Placeholders within XML fill later with data

OASIS ODF TC Github

Agile Specification (or the lack of it)

- Specification being the blueprint of software
- Problematic Time gap:
 - Agile CI/CD software release ~weekly
 - Specification release every ~18 month

OASIS ODF TC Github

Agile Specification

- Specification being the blueprint of software
- Problematic Time gap:
 - Agile CI/CD software release ~weekly
 - Specification release every ~18 month
- **Obvious solution:**
 - Generate (parts of) ODF software from specification
 - Generate (human readable) specification from basic data
 - Test documents (and future tests?) at “Spec level”

OASIS ODF TC Github

Automation example:

ODT Text from XML Grammar

9.1.2 <table:table>

The <table:table> element is the root element for a table.

The <table:table> element is usable within the following elements: <chart:chart> [11.1](#), <draw:frame> [10.4.2](#), <draw:text-box> [10.4.3](#), <office:spreadsheet> [3.7](#), <office:text> [3.4](#), <style:footer> [16.11](#), <style:footer-left> [16.13](#), <style:header> [16.10](#), <style:header-left> [16.12](#), <table:covered-table-cell> [9.1.5](#), <table:dde-link> [14.6.4](#), <table:table-cell> [9.1.4](#), <text:deletion> [5.5.4](#), <text:index-body> [8.2.2](#), <text:index-title> [8.2.3](#), <text:note-body> [6.3.4](#) and <text:section> [5.4](#).

The <table:table> element has the following attributes: table:is-sub-table [19.655](#), table:name [19.673.13](#), table:print [19.693](#), table:print-ranges [19.694](#), table:protected [19.696.4](#), table:protection-key [19.697](#), table:protection-key-digest-algorithm [19.698](#), table:style-name [19.726.16](#), table:template-name [19.732](#), table:use-banding-columns-styles [19.736](#), table:use-banding-rows-styles [19.737](#), table:use-first-column-styles [19.738](#), table:use-first-row-styles [19.739](#), table:use-last-column-styles [19.740](#), table:use-last-row-styles [19.741](#) and xml:id [19.914](#).

The <table:table> element has the following child elements: <office:dde-source> [14.6.5](#), <office:forms> [13.2](#), <table:desc> [9.1.14](#), <table:named-expressions> [9.4.11](#), <table:scenario> [9.2.7](#), <table:shapes> [9.2.8](#), <table:table-column> [9.1.6](#), <table:table-column-group> [9.1.10](#), <table:table-columns> [9.1.12](#), <table:table-header-columns> [9.1.11](#), <table:table-header-rows> [9.1.7](#), <table:table-row> [9.1.3](#), <table:table-row-group> [9.1.9](#), <table:table-rows> [9.1.8](#), <table:table-source> [9.2.6](#), <table:title> [9.1.13](#), <text:soft-page-break> [5.6](#).

http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os-part1.html#element-table_table

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Parents

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Children

http://docs.oasis-open.org/office/v1.2/os/OpenDocument-v1.2-os-part1.html#element-table_table

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Can we make ODF Adoption easier?

- With every ODF Release, ODF Application are updated
 - ODF Release Changes
 - Links to JIRA issues at the end of each Spec Part
 - **Is there a better way?**

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Gap: ODF User Feature $\leftarrow \rightarrow$ ODF XML Syntax

- Imagine new ODF feature:

Page orientation (landscape/portrait)
on Paragraph (or Table)

OASIS ODF TC Github

Gap: ODF User Feature $\leftarrow \rightarrow$ ODF XML Syntax

- Imagine new ODF feature:

Page orientation (landscape/portrait)
on Paragraph (or Table)

- Two views on ODF feature:
 - **ODF User Feature (Semantic definition)**
Change on Paragraph \rightarrow Orientation (horiz./vert.)
 - **ODF XML Syntax:**

?

OASIS ODF TC Github

Gap: ODF User Feature $\leftarrow \rightarrow$ ODF XML Syntax

```
<?xml version="1.0" encoding="UTF-8"?>
<office:document-content xmlns:office="urn:oasis:names:tc:opendocument:xmlns:office:1.0" xmlns:style="urn:oasis:names:tc:opendocument:xmlns:style:1.0" xmlns:text="urn:oasis:names:tc:opendocument:xmlns:text:1.0" xmlns:table="urn:oasis:names:tc:opendocument:xmlns:table:1.0" xmlns:forms="urn:oasis:names:tc:opendocument:xmlns:forms:1.0" xmlns:draw="urn:oasis:names:tc:opendocument:xmlns:draw:1.0" xmlns:fo="urn:oasis:names:tc:opendocument:xmlns:fo:1.0" xmlns:xlink="urn:oasis:names:tc:opendocument:xmlns:xlink:1.0" xmlns:dc="urn:oasis:names:tc:opendocument:xmlns:dc:1.0" xmlns:meta="urn:oasis:names:tc:opendocument:xmlns:meta:1.0" xmlns:ooo="urn:oasis:names:tc:opendocument:xmlns:ooo:1.0" xmlns:ooow="urn:oasis:names:tc:opendocument:xmlns:ooow:1.0" xmlns:oooc="urn:oasis:names:tc:opendocument:xmlns:oooc:1.0" xmlns:ole="urn:oasis:names:tc:opendocument:xmlns:ole:1.0" xmlns:ruby="urn:oasis:names:tc:opendocument:xmlns:ruby:1.0" xmlns:script="urn:oasis:names:tc:opendocument:xmlns:script:1.0">
  <office:scripts/>
  <office:font-face-decls>
    <style:font-face style:name="Lucida Sans1" svg:font-family="&apos;Lucida Sans&apos;" style:font-family-generic="swiss"/>
    <style:font-face style:name="Liberation Serif" svg:font-family="&apos;Liberation Serif&apos;" style:font-family-generic="roman" style:font-pitch="variable"/>
    <style:font-face style:name="Liberation Sans" svg:font-family="&apos;Liberation Sans&apos;" style:font-family-generic="swiss" style:font-pitch="variable"/>
    <style:font-face style:name="Lucida Sans" svg:font-family="&apos;Lucida sans&apos;" style:font-family-generic="system" style:font-pitch="variable"/>
    <style:font-face style:name="Microsoft YaHei" svg:font-family="&apos;Microsoft YaHei&apos;" style:font-family-generic="system" style:font-pitch="variable"/>
    <style:font-face style:name="SimSun" svg:font-family="SimSun" style:font-family-generic="system" style:font-pitch="variable"/>
  </office:font-face-decls>
  <office:automatic-styles>
    <style:style style:name="P1" style:family="paragraph" style:parent-style-name="Standard" style:master-page-name="Standard">
      <style:paragraph-properties style:page-number="auto"/>
    </style:style>
    <style:style style:name="P2" style:family="paragraph" style:parent-style-name="Standard" style:master-page-name="First_20_Page">
      <style:paragraph-properties style:page-number="auto"/>
    </style:style>
    <style:style style:name="P3" style:family="paragraph" style:parent-style-name="Header">
      <style:paragraph-properties fo:text-align="center" style:justify-single-word="false"/>
    </style:style>
  </office:automatic-styles>
  <office:body>
    <office:text text:use-soft-page-breaks="true">
      <text:sequence-decls>
        <text:sequence-decl text:display-outline-level="0" text:name="Illustration"/>
        <text:sequence-decl text:display-outline-level="0" text:name="Table"/>
        <text:sequence-decl text:display-outline-level="0" text:name="Text"/>
        <text:sequence-decl text:display-outline-level="0" text:name="Drawing"/>
      </text:sequence-decls>
      <text:p text:style-name="P1">Hello</text:p>
      <text:p text:style-name="Standard">(some standard style text</text:p>
      <text:p text:style-name="P1">World!</text:p>
    </office:text>
  </office:body>
</office:document-content>
```

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Gap: ODF User Feature $\leftarrow \rightarrow$ ODF XML Syntax

```
1218     <style:header-footer-properties fo:min-height="0cm" fo:margin-top="0.499cm"/>
1219   </style:footer-style>
1220 </style:page-layout>
1221 <style:page-layout style:name="Mpm1">
1222   <style:page-layout-properties fo:page-width="29.7cm" fo:page-height="21.001cm" style:num-format="1" style:print-orientation="landscape" fo:margi
1223     <style:footnote-sep style:width="0.018cm" style:distance-before-sep="0.101cm" style:distance-after-sep="0.101cm" style:line-style="solid" st
1224   </style:page-layout-properties>
1225   <style:header-style>
1226     <style:header-footer-properties fo:min-height="0cm" fo:margin-bottom="0.499cm"/>
1227   </style:header-style>
1228   <style:footer-style>
1229     <style:header-footer-properties fo:min-height="0cm" fo:margin-top="0.499cm"/>
1230   </style:footer-style>
1231 </style:page-layout>
1232 </office:automatic-styles>
1233 <office:master-styles>
1234   <style:master-page style:name="First_20_Page" style:display-name="First Page" style:page-layout-name="Mpm3" style:next-style-name="Standard">
1235     <style:header>
1236       <text:p text:style-name="Header">First Page Header</text:p>
1237     </style:header>
1238     <style:footer>
1239       <text:p text:style-name="Footer">First Page Footer</text:p>
1240     </style:footer>
1241   </style:master-page>
1242   <style:master-page style:name="Standard" style:page-layout-name="Mpm1">
1243     <style:header>
1244       <text:p text:style-name="Mpm1">Default Style Header (landscape)</text:p>
1245     </style:header>
1246     <style:footer>
1247       <text:p text:style-name="Footer">Default Style Footer (landscape)</text:p>
1248     </style:footer>
1249   </style:master-page>
1250   <style:master-page style:name="Landscape" style:page-layout-name="Mpm2">
1251     <style:header>
1252       <text:p text:style-name="Header"/>
1253     </style:header>
1254   </style:master-page>
1255   <style:master-page style:name="Portrait" style:page-layout-name="Mpm4"/>
```

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Gap: ODF User Feature $\leftarrow \rightarrow$ ODF XML Syntax

- Imagine **new ODF feature**:

Page orientation (landscape/portrait)
on Paragraph (or Table)

- Two views on ODF feature:
 - **ODF User Feature (Semantic definition):**
Change on Paragraph \rightarrow Orientation (horiz./vert.)
 - **ODF XML Syntax:**
Paragraph \rightarrow Style \rightarrow
Master Page \rightarrow Page Layout \rightarrow
Page Layout Properties \rightarrow Orientation

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Personal Wishlist

- We are just at the beginning of..
 - Enhancing ODF Spec Review/Generation (CI/CD)
 - “Machine-Readable” ODF info-set
 - Declare ODF Semantic (Semantic Dictionary ?)
 - Declare ODF Semantic Changes (Test API)
(Enabling Conformance Test on Standard Level ?)

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Conformance Test belong to Specification

Home News Oct 08, 2017 - 2 new features added: Streams & :focus-ring CSS pseudo-class Compare browsers About

Can I use @page ? ⚙ Settings

1 result found

CSS Paged Media (@page) - WD Global 61.43% + 11.61% = 73.03%

CSS at-rule (@page) to define page-specific rules when printing web pages, such as margin per page and page dimensions.

Current aligned Usage relative Date relative Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			49			10.2			
		55	60	10.1		10.3		4.4	
11	15	56	61	11	47	11	all	56	61
	16	57	62	TP	48				
		58	63		49				
		59	64						

Notes Known issues (1) Resources (6) Feedback

Currently no browsers appear to support the marks & bleed properties from the latest version of the specification.

Does not support the size property

<https://caniuse.com/>

OASIS ODF TC Github

References

- My 21 years in 2x30min (XML Conf 2020 Prague)
 - **Past:**
Design Suggestions for XML++ (video/slides)
 - **Future:**
The Next Millennium Document Format (video/slides)