Docca Markup Reference

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The Document

A Docca document consists of a doc block containing a style block and one or more page blocks.

```
<doc
  size="A4"
  author="jason@docca.io"
  title="Docca Markup Reference"
  subject="Reference for Docca document markup"
  creator="Docca"
  keywords="docca document markup reference"
  moddate="20170101000000Z"
>
  <style>
    page { margin: 10; padding: 10; }
    .title { valign: bottom; font-size: 20; padding: 0 0 5 20 }
  </style>

  <page>
    <header>
      <ro>
        <logo><img src="docca-logo-550.png" /></logo>
        <co class="title">Markup Reference</co>
      </ro>
    </header>

    <newPage>
      <header>
        <heading>The Document</heading>
      </header>
      <co><ro></ro></co>
    </newPage>

    <footer>
      <ro>
        <co>Docca Markup Reference</co>
        <co>Page <text class="pageNo">3</text> of <text class="pagesNo">3</text></co>
      </ro>
    </footer>
  </page>
</doc>
```

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Style

Styles control most of the layout of a document. There are some special tags which cannot be emulated with styles though.

Styles can be applied to tags or classes as with regular CSS.

Styles can be extended unlike regular CSS.

```
<style>
  tag { flow: column; font-size: 12 }
  heading { font-size: 20; font-weight: bold }
  subHeading { extend: heading; font-size: 14 }
</style>

<tag>
  Tag Text
  <heading>Heading</heading>
  <subHeading>Subheading</subHeading>
</tag>
```

Tag Text

Heading
Subheading

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Pages

Each <page> element will start on a new page in the PDF and may span multiple pages in the resulting PDF document.

Each <newPage> element will start on a new page and will include the <header> and <footer> of it's parent.

<header> and <footer> elements are included in each page their parent block is in.

<block>elements will not be split unless they are too big to fit on a single page, including any headers or footers.

```
<doc>
  <style>
  </style>

  <page>
    <header>
      <ro><co>Markup Reference</co></ro>
    </header>

    <newPage>
      <header>The First Page/s</header>
      <co><ro></ro></co>
    </newPage>

    <newPage>
      <header>Starts on a New Page</header>
      <co><ro></ro></co>
    </newPage>

    <footer>
      <co>Page n of n</co>
    </footer>
  </page>

  <page>
    <header>
      <ro><co>Glossary</co></ro>
    </header>
  </page>
</doc>
```

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Rows and Columns (ro & co)

Rows

<row> and <ro> elements are styled by default with the `flow: row` rule.
The elements in a row are laid out horizontally and the available space is divided up evenly between the elements.

```
<ro>
  <co> <p>Column 1 Para 1</p> <p>Column 1 Para 2</p> </co>
  <co> <p>Column 2</p> </co>
  <co> <p>Column 3</p> </co>
</ro>
```

Column 1 Para 1	Column 2	Column 3
Column 1 Para 2		

Columns

<column> and <co> elements are styled by default with the `flow: column` rule.
The elements in a column are laid out vertically.

```
<co>
  <ro> <p>Row 1 Para 1</p> <p>Row 1 Para 2</p> </ro>
  <ro> <p>Row 2</p> </ro>
  <ro> <p>Row 3</p> </ro>
</co>
```

Row 1 Para 1	Row 1 Para 2
Row 2	
Row 3	

Borders, Margins, and Padding

A border is an outline of an element.

A margin adds space around the outside of the border.

Padding adds space inside the border.

```
<style>
  col { extend: co; border: 1; border-color: blue }
  .radius { border-radius: 5 }
  .mar { margin: 5 }
  .pad { padding: 5 }
</style>

<ro><col>Border</col></ro>
<ro><col class="mar">Margin and Border</col></ro>
<ro><col class="mar pad">Margin, Border, Padding</col></ro>
<ro><col class="mar radius pad">Margin, Rounded Border, Padding</col></ro>
```

Border

Margin and Border

Margin, Border, Padding

Margin, Rounded Border, Padding

```
<style>
  .bor { border: 0 0 1 0; border-color: blue }
  .mar { margin: 5 0 0 0 }
  .pad { padding: 0 5 }
</style>

<ro><col class="bor">Bottom Border</col></ro>
<ro><col class="bor mar">Top Margin and Bottom Border</col></ro>
<ro><col class="bor mar pad">Top Margin, Bottom Border, Sides Padding</col></ro>
```

Bottom Border

Top Margin and Bottom Border

Top Margin, Bottom Border, Sides Padding

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Width

```
<style>
  .decor { border: 1; border-color: red; margin: 3; padding: 3 }

  .halfWidth { width: 50% }
  .quarterWidth { width: 25% }
  .width100 { width: 100 }
</style>

<co class="mar">
  <ro class="decor halfWidth"> Width 50% </ro>
  <ro class="decor quarterWidth"> Width 25% </ro>
  <ro class="decor width100"> Width 100 pixels </ro>
</co>
```

Width 50%

Width 25%

Width 100 pixels

Height

Stretch all items of a row to the height of the tallest item.

```
<style>
  .decor { border: 1; border-color: red; margin: 5; padding: 3 }

  .itemsFullHeight { height-items: stretch }
  .fullHeight { height: stretch }
</style>

<ro class="mar itemsFullHeight">
  <co class="decor"> Height set to tallest child height. </co>
  <co class="decor"> Height set by wrapped content if we make it long enough.</co>
</ro>
```

Height set to tallest child height.	Height set by wrapped content if we make it long enough.

Stretch one item to the height of the tallest item.

```
<style>
  .decor { border: 1; border-color: red; margin: 5; padding: 3 }

  .itemsFullHeight { height-items: stretch }
  .fullHeight { height: stretch }
</style>

<ro class="mar">
  <co class="decor fullHeight"> Height set to tallest child height. </co>
  <co class="decor"> Height set by wrapped content if we make it long enough.</co>
  <co class="decor"> Height set by content.</co>
</ro>
```

Height set to tallest child height.	Height set by wrapped content if we make it long enough.	Height set by content.

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Alignment

Elements can be aligned and they can align their child elements.

```
<style>
  .decor {
    border: 1; border-color: red; margin: 5; padding: 3;
    width: 50%;
  }

  .right { align: right }
  .center { align: center }
  .items-right { align-items: right }
  .items-center { align-items: center }
</style>

<co class="mar">
  <ro class="decor"> Row </ro>
  <ro class="decor right items-right"> Row </ro>
  <ro class="decor items-center"> Row </ro>
  <ro class="decor center items-right"> Row </ro>
</co>
```

Row

                                                                    Row

                    Row

                                        Row

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Alignment

```
<style>
  .decor {
    border: 1; border-color: red; margin: 5; padding: 3;
    width: 50%;
  }

  .right { align: right }
  .center { align: center }
  .items-right { align-items: right }
  .items-center { align-items: center }
</style>

<co>
  <co class="decor"> Column </co>
  <co class="decor right items-right"> Column </co>
  <co class="decor items-center"> Column </co>
  <co class="decor center items-right"> Column </co>
</co>
```

Column

Column

Column

Column

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Fonts

```
<style>
  .italic { font-style: italic }
  .bold { font-weight: bold }

  .noto { font-family: NotoSans }
  .noto-bold { extend: .noto .bold }
  .noto-italic { extend: .noto .italic }
  .noto-bolditalic { extend: .noto .bold .italic }
</style>

<co>
  <p class="noto">NotoSans</p>
  <p class="noto-bold">NotoSans Bold</p>
  <p class="noto-italic">NotoSans Italic</p>
  <p class="noto-bolditalic">NotoSans Bold Italic</p>
</co>
```

NotoSans

NotoSans Bold

NotoSans Italic

NotoSans Bold Italic

The NotoSans font covers 583 languages such as:

Czech: Vědci jsou šipky sukně. Úřad obdrží žádnou spoluúčast.

Greek: Lorem ipsum dolor καθίσει Αμέτ, consectetur adipiscing Elit.

Bulgarian: Lorem Ipsum печал седне Амет, consectetur adipiscing Елит.

Russian: Lorem Ipsum Dolor сидеть Амет, consectetur adipiscing Элит.

Vietnamese: Thậm chí tạm thời nibh, luctus ut urna sed, ultricies ultrices Purus.

Images

Images fill the available width of their container element unless their width is set directly.

An image is embedded in the PDF once regardless of the number of times it is displayed in the PDF.

For print quality images it is recommended that the physical size of the image be approximately twice as wide as it's display width.

```
<style>
co { border: 1; border-color: red; }
.halfWidth { width: 50% }
.width200 { width: 200 }
</style>

<co class="halfWidth">
  <ro> <img src="logo.png" /> </ro>
  <ro class="halfWidth"> <img src="logo.png" /> </ro>
  <ro> <img class="halfWidth" src="logo.png" /> </ro>
  <ro> <img class="width200" src="logo.png" /> </ro>
</co>
```

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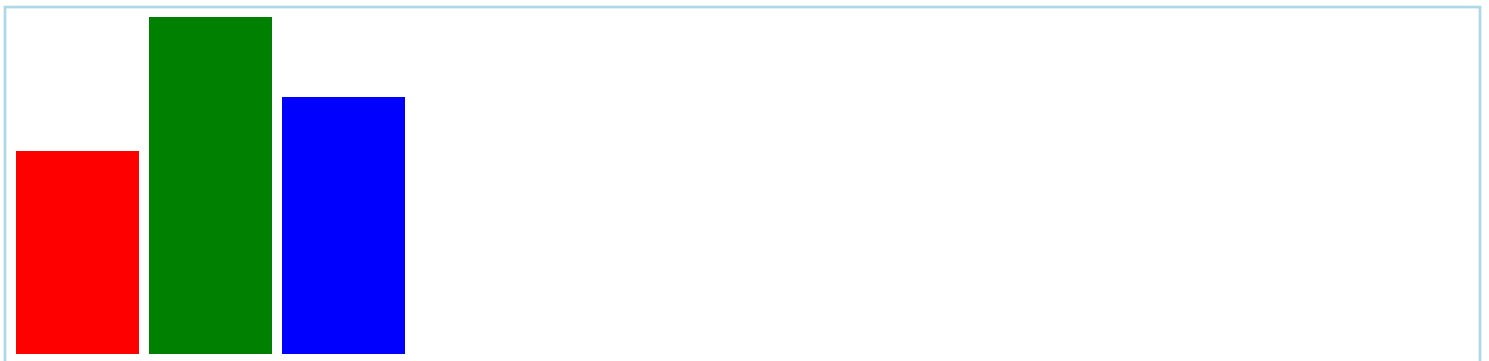## Charts

Not really, but..

Vertical Bar Chart

```
<style>
  chart { flow: row; valign-items: bottom; width: 140 }
  bar { width: 50; margin: 2 }

  .redBg { background-color: red }
  .greenBg { background-color: green }
  .blueBg { background-color: blue }

  .height80 { height: 80 }
  .height100 { height: 100 }
  .height130 { height: 130 }
</style>

<ro>
  <co class="items-center">
    <chart>
      <bar class="redBg height80"></bar>
      <bar class="greenBg height130"></bar>
      <bar class="blueBg height100"></bar>
    </chart>
  </co>
</ro>
```

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Charts

Horizontal Bar Chart

```
<style>
  chartH { flow: column; width: 140 }
  barH {
    height: 20; margin: 5; border-radius: 5; padding: 5;
    font-color: white; font-size: 10
  }

  .redBg { background-color: red }
  .greenBg { background-color: green }
  .blueBg { background-color: blue }

  .width80 { width: 80 }
  .width100 { width: 100 }
  .width130 { width: 130 }
</style>

<ro>
  <co>
    <chartH class="center">
      <barH class="redBg width80">No</barH>
      <barH class="greenBg width130">Yes</barH>
      <barH class="blueBg width100">Maybe</barH>
    </chartH>
  </co>
</ro>
```