

# Docca Markup Reference

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# Docca Markup Reference

## 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></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>
```

# Docca Markup Reference

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

Tag Text

**Heading**

**Subheading**

# Docca Markup Reference

## Pages

Each `<page>` element will be split into multiple pages in the generated PDF where required.

Each `<newPage>` element will start on a new page in the PDF.

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

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

```
<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>
```

# Docca Markup Reference

## Rows and Columns (ro & co)

The elements in a row are laid out horizontally and the available space is divided up evenly between the elements.

```
<ro>
  <co> Column </co>
  <co> Column </co>
  <co> Column </co>
</ro>
```

Column	Column	Column
--------	--------	--------

The elements in a column are laid out vertically.

```
<co>
  <ro> Row </ro>
  <ro> Row </ro>
  <ro> Row </ro>
</co>
```

Row
Row
Row

# Docca Markup Reference

## 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.

```
.bor { border: 1; border-color: red }  
.borRad { extend: .bor; border-radius: 5 }  
.mar { margin: 5 }  
.pad { padding: 5 }
```

```
<ro><co class="bor">Border</co></ro>  
<ro><co class="mar bor">Margin and Border</co></ro>  
<ro><co class="mar bor pad">Margin, Border, Padding</co></ro>  
<ro><co class="mar borRad pad">Margin, Rounded Border, Padding</co></ro>
```

Border

Margin and Border

Margin, Border, Padding

Margin, Rounded Border, Padding

```
.bor { border: 0 0 1 0; border-color: red }  
.mar { margin: 5 0 0 0 }  
.pad { padding: 0 5 }
```

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

Bottom Border

Top Margin and Bottom Border

Top Margin, Bottom Border, Sides Padding

# Docca Markup Reference

## Width

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

```
.halfWidth { width: 50% }
```

```
.quarterWidth { width: 25% }
```

```
.width100 { width: 100 }
```

```
<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

# Docca Markup Reference

## Height

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

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

.itemsFullHeight { height-items: stretch }
.fullHeight { height: stretch }

<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.**

```
<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.

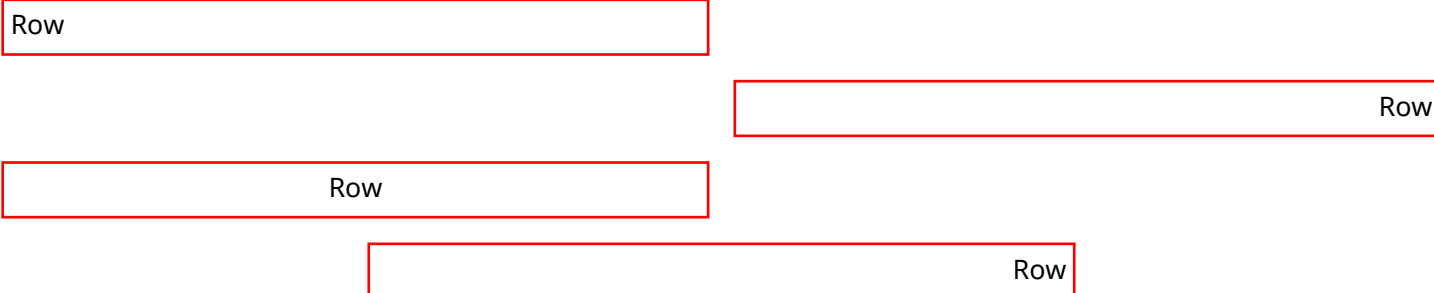


# Docca Markup Reference

## Alignment

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

```
.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 }  
  
<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>
```



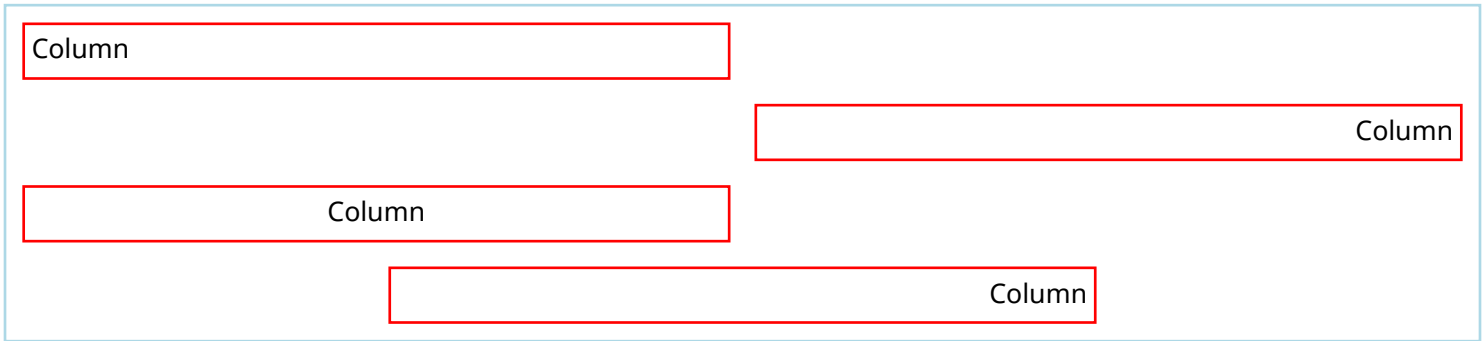
# Docca Markup Reference

## Alignment

```
.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 }

<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>
```



# Docca Markup Reference

## 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 adipiscingELIT.

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.

# Docca Markup Reference

## 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>  </ro>
  <ro class="halfWidth">  </ro>
  <ro>  </ro>
  <ro>  </ro>
</co>
```



# Docca Markup Reference

## Charts

Not really, but..

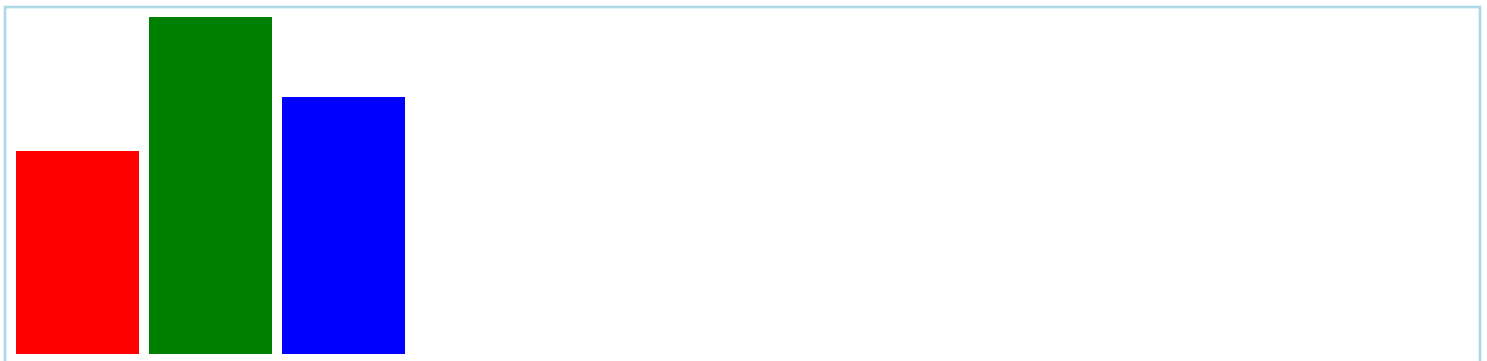
### Vertical Bar Chart

```
<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>
```



# Docca Markup Reference

## 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>
```

No

Yes

Maybe