

# *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 }
  .class { width: 150 }

  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>` block will be split into multiple pages in the generated PDF where required.

The `<newPage>` block will always be put on a new page in the PDF.

`<header>` and `<footer>` blocks 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

```
.halfWidth { width: 50% }  
.quarterWidth { width: 25% }  
.width100 { width: 100 }
```

```
<co class="mar">  
  <ro class="halfWidth"> Width 50% </ro>  
  <ro class="quarterWidth"> Width 25% </ro>  
  <ro class="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.**

```
.items-fullHeight { height-items: stretch }  
  
<ro class="mar items-fullHeight">  
  <co> Height set to tallest child height. </co>  
  <co> Height set by content. Height set by content. </co>  
  <co> Height set to tallest child height. </co>  
</ro>
```

Height set to tallest child height.

Height set by content. Height set  
by content.

Height set to tallest child height.

**Stretch a single item of a row to the height of the tallest item.**

```
.fullHeight { height: stretch }  
  
<ro class="mar">  
  <co> Height set by content. </co>  
  <co> Height set by content. Height set by content. </co>  
  <co class="fullHeight"> Height set to tallest child height. </co>  
</ro>
```

Height set by content.

Height set by content. Height set  
by content.

Height set to tallest child height.

```
.fullHeight { height: stretch }  
.height50 { height: 50 }  
  
<ro class="mar">  
  <co> Height set by content. </co>  
  <co class="height50"> Height specified.</co>  
  <co class="fullHeight"> Height set to tallest child height. </co>  
</ro>
```

Height set by content.

Height specified.

Height set to tallest child height.



# Docca Markup Reference

## Alignment

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

```
.items-right { align-items: right }
.items-center { align-items: center }
.halfWidth { width: 50% }

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

Row	
	Row
Row	

```
.items-center { align-items: center }
.right { align: right }
.halfWidth { width: 50% }

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

Row	
	Row

```
.items-right { align-items: right }
.center { align: center }
.halfWidth { width: 50% }

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

	Row
Row	

# Docca

## Markup Reference

### Alignment

```
.height100 { height: 100 }  
.valignBottom { valign: bottom }  
  
<co class="height100">  
  <ro>Row</ro>  
  <ro>Row</ro>  
  <ro class="valignBottom">A row at the bottom</ro>  
</co>
```

Row

Row

A row at the bottom

# Docca Markup Reference

## Fonts

```
.fontsEg { font-size: 14 }
.noto { font-family: NotoSans }
.noto-bold { extend: .noto .bold }
.noto-italic { extend: .noto .italic }
.noto-bolditalic { extend: .noto .bold .italic }
.cous { font-family: Cousine }
.cous-bold { extend: .cous .bold }
.cous-italic { extend: .cous .italic }
.cous-bolditalic { extend: .cous .bold .italic }

<p class="noto">
  NotoSans, <text class="noto-bold">NotoSans Bold</text>,
  <text class="noto-italic">NotoSans Italic</text>,
  <text class="noto-bolditalic">NotoSans Bold Italic</text>
</p>
<p class="cous">
  Cousine, <text class="cous-bold">Cousine Bold</text>,
  <text class="cous-italic">Cousine Italic</text>,
  <text class="cous-bolditalic">Cousine Bold Italic</text>
</p>
```

NotoSans, **NotoSans Bold**, *NotoSans Italic*, ***NotoSans Bold Italic***

Cousine, **Cousine Bold**, *Cousine Italic*, ***Cousine 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.

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

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



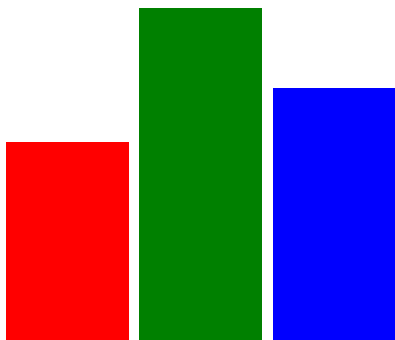
# Docca Markup Reference

## Charts

Not really, but..

```
chart { flow: row; valign-items: bottom; width: 140 }
bar { width: 50; margin: 2 }
chartH { flow: column; width: 140 }
barH {
  height: 40; margin: 5; border-radius: 5; padding: 5;
  font-color: white; font-size: 14
}
.redBg { background-color: red }
.greenBg { background-color: green }
.blueBg { background-color: blue }
.height80 { height: 80 }
.height100 { height: 100 }
.height130 { height: 130 }
.width80 { width: 80 }
.width100 { width: 100 }
.width130 { width: 130 }

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