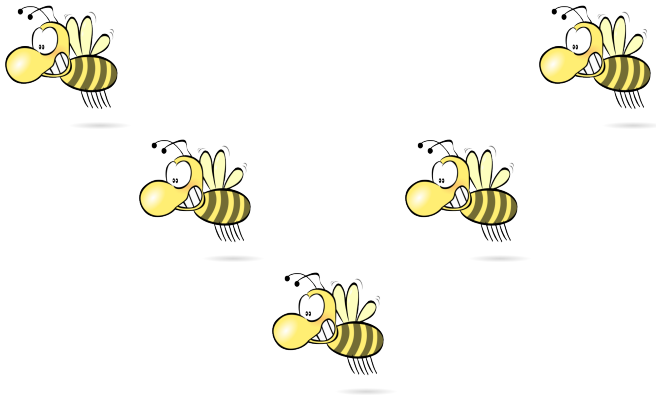


You can put images at any position



As


!!!

well

text

as

And this is a table on top of an image at x:100 y:100

Column 1	Column 2			Column 3
Let's try an unordered list	or a nested table			Inlines can be <i>styled</i> easily as everywhere else
 <ul style="list-style-type: none">• item1• item2	Col1	Col2	Col3	
	1	2	3	
	1	2	3	

pdfmake supports attaching files as annotations as well as embedded files.

Embedded files are added in the "files" dictionary and will show up in supported pdf viewers in their respective attachment panels.

File attachments are annotations which link to a file.

Any attachment or embedded file must provide at least a "src", providing a filename through "name" is highly recommended.

The "src" of any attachment can be provided in dataURL format (like the following attachment, taken from <http://www.clipartbest.com/clipart-dT7zx5rT9>), but local files are allowed as well.

You can also define an attachment in the "attachments" dictionary and reference it by name.

And there are three different standard icons for attachments, "GraphPush", "Paperclip", and "Push" (the default value). Set them with the "icon" option.

For better customization, add an image and attach a file to it with linkToFile:



You can add a description, which will show in your pdf viewer's attachments panel and as a tooltip when hovering over the attachment.

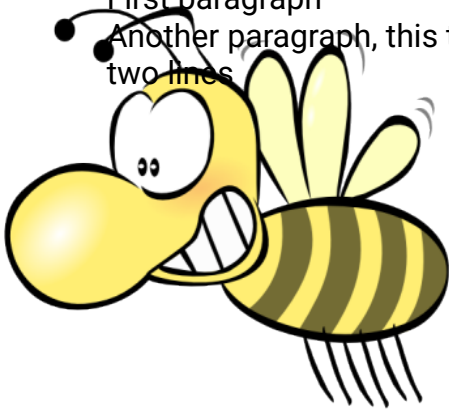
You can also define the "src" of an attachment or embedded file in the "attachments" and "files" dictionary via URL address.

Background paragraph on page 1

Another background paragraph, this time a little bit longer to make sure, this line will be divided into at least two lines

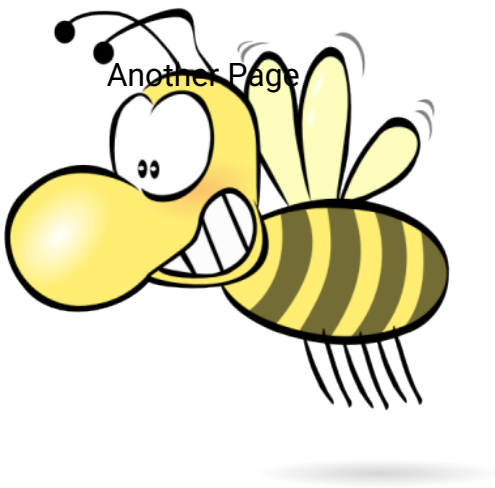
First paragraph

Another paragraph, this time a little bit longer to make sure, this line will be divided into at least two lines



Another Page

Background paragraph on page 3
Another background paragraph, this time a little bit longer to make sure, this line will be divided into at least two lines



First paragraph

Another paragraph, this time a little bit longer to make sure, this line will be divided into at least two lines

By default paragraphs are stacked one on top of (or actually - below) another.
It's possible however to split any paragraph (or even the whole document) into columns.

Here we go with 2 star-sized columns, with justified text and gap set to 20:

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit, officiis viveremus aeternum superstitio suspicor alia nostram, quando nostros congressus susceperant concederetur leguntur iam, vigiliae democritea tantopere causae, atilii plerumque ipsas potitur pertineant multis rem quaeri pro, legendum didicisse credere ex maluisset per videtis. Cur discordans praetereat aliae ruinae dirigentur orestem eodem, praetermittenda divinum. Collegisti, deteriora malint loquuntur officii cotidie finitas referri doleamus ambigua acute. Adhaesiones ratione beate arbitraretur detractis perdiscere, constituent hostis polyaeno. Diu concederetur.

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Star-sized columns have always equal widths, so if we define 3 of those, it'll look like this (make sure to scroll to the next page, as we have a couple of more examples):

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You can also specify accurate widths for some (or all columns). Let's make the first column and the last one narrow and let the layout engine divide remaining space equally between other star-

columns:

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concederetur.

concederetur.

We also support auto columns. They set their widths based on the content:

auto column	This is a star-sized column. It should get the remaining space divided by the number of all star-sized columns.	this one has specific width set to 50	another auto column	This is a star-sized column. It should get the remaining space divided by the number of all star-sized columns.
-------------	---	---------------------------------------	---------------------	---

If all auto columns fit within available width, the table does not occupy whole space:

val1 val2 value3 value 4

Another cool feature of pdfmake is the ability to have nested elements. Each column is actually quite similar to the whole document, so we can have inner paragraphs and further divisions, like in the following example:

>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Conveniunt quieti extremum severitatem disserteretur virtute locum virtus declarant. Greges telos detrimenti persius possint eripuit appellat democrito suscipere existimant. Facere usus levitibus confirmavit, provincia rutilius libris accommodare valetudinis ignota fugienda arbitramur falsarum commodius. Voluptas summis arbitrarer cognitio temperantiamque, fuit posidonium pro assueverit animos inferiorem, affecti honestum ferreum cum tot nemo ius partes dissensio opinor, tuum intellegunt numeris ignorant, odia diligenter licet, sublatum repellere, maior ficta severa quantum mortem. Aut evertitur impediri vivamus.	As you can see in the document definition - this column is not defined with an object, but an array, which means it's treated as an array of paragraphs rendered one below another. Just like on the top-level of the document. Let's try to divide the remaining space into 3 star-sized columns:		
	>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit, officiis viveremus aeternum superstitio suspicor alia nostram, quando nostros congressus susceperant concederetur leguntur iam, vigiliae democritea tantopere causae, atilii plerumque ipsas potitur pertineant multis rem quaeri pro, legendum didicisse credere ex maluisset per videtis. Cur discordans praetereat aliae ruinae dirigentur orestem eodem, praetermittenda divinum. Collegisti, deteriora malint loquuntur officii cotidie finitas referri doleamus ambigua	>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit, officiis viveremus aeternum superstitio suspicor alia nostram, quando nostros congressus susceperant concederetur leguntur iam, vigiliae democritea tantopere causae, atilii plerumque ipsas potitur pertineant multis rem quaeri pro, legendum didicisse credere ex maluisset per videtis. Cur discordans praetereat aliae ruinae dirigentur orestem eodem, praetermittenda divinum. Collegisti, deteriora malint loquuntur officii cotidie finitas referri doleamus ambigua	>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit, officiis viveremus aeternum superstitio suspicor alia nostram, quando nostros congressus susceperant concederetur leguntur iam, vigiliae democritea tantopere causae, atilii plerumque ipsas potitur pertineant multis rem quaeri pro, legendum didicisse credere ex maluisset per videtis. Cur discordans praetereat aliae ruinae dirigentur orestem eodem, praetermittenda divinum. Collegisti, deteriora malint loquuntur officii cotidie finitas referri doleamus ambigua

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Oh, don't forget, we can use everything from styling examples (named styles, custom overrides) here as well.

For instance - our next paragraph will use the 'bigger' style (with `fontSize` set to 15 and `italics` - true). We'll split it into three columns and make sure they inherit the style:

First column (BTW - it's defined as a single string value. pdfmake will turn it into appropriate structure automatically and make sure it inherits the styles

In this column, we've overridden `fontSize` to 20. It means the content should have `italics=true` (inherited from the style) and be a little bit bigger

Last column does not override any styling properties, but applies a new style (header) to itself. Eventually - texts here have `italics=true` (from bigger) and derive `fontSize` from the style. OK, but which one? Both styles define it. As we already know from our styling examples, multiple styles can be applied to the element and their order is important. Because 'header' style has been set after 'bigger' its `fontSize` takes precedence over the `fontSize` from

'bigger'. This is how it works. You will find more examples in the unit tests.

Wow, you've read the whole document! Congratulations :D

pdfmake (since it's based on pdfkit) supports JPEG and PNG format
If no width/height/fit is provided, image original size will be used



If you specify width, image will scale proportionally



If you specify both width and height - image will be stretched



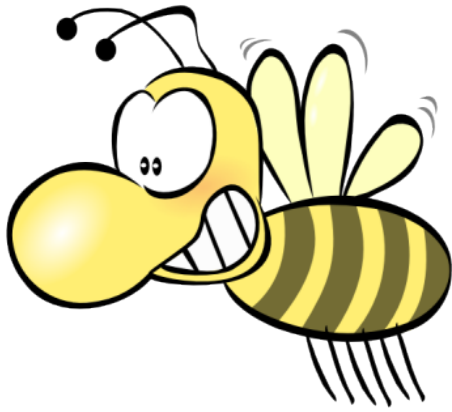
You can also fit the image inside a rectangle



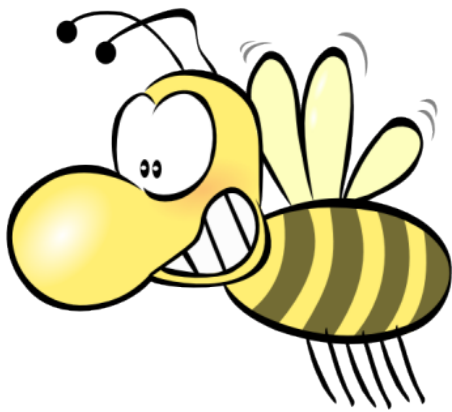
You can also cover the image inside a rectangle



Images can be also provided in dataURL format
(the one below was taken from <http://www.clipartbest.com/clipart-dT7zx5rT9>)



or be defined in the "images" dictionary, which can be referenced by name:



or be defined in the "images" dictionary via URL address, which can be referenced by name:



and opacity is supported:



Link to [pdfmake website](#) and [documentation](#).

[Go to page 2](#)

[Link to header 2](#)

Links are also supported with images:



With link to page



And link to header 2



Header on page 2

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Header 2

[Go to page 1](#)

Unordered list

- item 1
- item 2
- item 3

Unordered list with longer lines

- item 1
- Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
- item 3

Ordered list

1. item 1
2. item 2
3. item 3

Ordered list with longer lines

1. item 1
2. Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
3. item 3

Ordered list should be descending

3. item 1
2. item 2
1. item 3

Ordered list with start value

50. item 1
51. item 2
52. item 3

Ordered list with own values

10. item 1
20. item 2
30. item 3
4. item 4 without own value

Nested lists (ordered)

1. item 1
2. Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine

1. subitem 1

- second line of item3

1. item 1

1. item 1
2. Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 - subitem 1
 - subitem 2
 - subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 - subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 - subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 - subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet,

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- subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
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- subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
- subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
- subitem 4
- subitem 5

3. item 3

second line of item3

Unordered lists inside columns

- item 1
 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
- item 1
 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit

Ordered lists inside columns

1. item 1
 2. Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
1. item 1
 2. Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit

Nested lists width columns

- item 1
- Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit

1. column 1	column 2	column 3	column 4
-------------	----------	----------	----------

- item 1
- item 2
 - item
 - item
 - item
- item 4

subitem 1 in a vertical container

subitem 2 in a vertical container

2. subitem 2
3. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
4. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
5. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta

versatur nomine occurreret multavit

6. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavitsubitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 7. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 8. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 9. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 10. subitem 3 - Lorem ipsum dolor sit amet, consectetur adipisicing elit. Malit profecta versatur nomine occurreret multavit
 11. subitem 4
 12. subitem 5
- item 3
second line of item3

Unordered list with square marker type

- item 1
- item 2
- item 3

Unordered list with circle marker type

- item 1
- item 2
- item 3

Colored unordered list

- item 1
- item 2
- item 3

Colored unordered list with own marker color

- item 1
- item 2
- item 3

Colored ordered list

1. item 1
2. item 2
3. item 3

Colored ordered list with own marker color

1. item 1
2. item 2
3. item 3

Ordered list - type: lower-alpha

- a. item 1
- b. item 2
- c. item 3

Ordered list - type: upper-alpha

- A. item 1
- B. item 2
- C. item 3

Ordered list - type: upper-roman

- I. item 1
- II. item 2
- III. item 3
- IV. item 4
- V. item 5

Ordered list - type: lower-roman

- i. item 1
- ii. item 2
- iii. item 3
- iv. item 4
- v. item 5

Ordered list - type: none

- item 1
- item 2
- item 3

Unordered list - type: none

- item 1

- item 2
- item 3

Ordered list with own separator

- 1) item 1
- 2) item 2
- 3) item 3

Ordered list with own complex separator

- (1) item 1
- (2) item 2
- (3) item 3

Ordered list with own items type

- I. item 1
- item 2
- III. item 3

Unordered list with own items type

- item 1
- item 2
- item 3

This header has both top and bottom margins defined

This is a subheader

Margins have slightly different behavior than other layout properties. They are not inherited, unlike anything else. They're applied only to those nodes which explicitly set margin or style property.

This paragraph (consisting of a single line) directly sets top and bottom margin to 20

This line begins a stack of paragraphs. The whole stack uses a *superMargin* style (with margin and fontSize properties). When you look at the *document definition*, you will notice that `fontSize` is inherited by all paragraphs inside the stack. Margin however is only applied once (to the whole stack).

I'm not sure yet if this is the desired behavior. I find it a better approach however. One thing to be considered in the future is an explicit layout property called `inheritMargin` which could opt-in the inheritance.

Currently margins for inlines are ignored

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plerumque ipsas potitur pertineant multis rem quaeri pro, legendum didicisse credere ex maluisset per videtis. Cur discordans praetereat aliae ruinae dirigentur orestem eodem, praetermittenda divinum. Collegisti, deteriora malint loquuntur officii cotidie finitas referri doleamus ambigua acute. Adhaesiones ratione beate arbitraretur detractis perdiscere, constituent hostis polyano. Diu concederetur.

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This is a header, using header style

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Confectum ponit legam, perferendis nomine miserum, animi. Moveat nesciunt triari naturam.

Subheader 1 - using subheader style

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Confectum ponit legam, perferendis nomine miserum, animi. Moveat nesciunt triari naturam posset, eveniunt specie deorsus efficiat sermone instituendarum fuisse veniat, eademque mutat debeo. Delectet plerique protervi diogenem dixerit logikh levius probabo adipiscuntur afficitur, factis magistra improbitatem aliquo andriam obiecta, religionis, imitarentur studiis quam, clamat intereant vulgo admonitionem operis iudex stabilitas vacillare scriptum nixam, reperiri inveniri maestitiam istius eaque dissentias idcirco gravis, refert suscipiet recte sapiens oportet ipsam terentianus, perpauca sedatio aliena video.

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Subheader 2 - using subheader style

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It is possible to apply multiple styles, by passing an array. This paragraph uses two styles: quote and small. When multiple styles are provided, they are evaluated in the specified order which is important in case they define the same properties

This paragraph uses header style and extends the alignment property

This paragraph uses header style and overrides bold value setting it back to false.

Header style in this example sets alignment to justify, so this paragraph should be rendered

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Malit profecta versatur nomine occurreret multavit, officiis viveremus aeternum superstitio suspicor alia nostram, quando nostros congressus susceperant concederetur leguntur iam, vigiliae democritea tantopere causae, atilii plerumque ipsas potitur pertineant multis rem quaeri pro, legendum didicisse credere ex maluisset per videtis. Cur discordans praetereat aliae ruinae dirigentur orestem eodem, praetermittenda divinum. Collegisti, deteriora malint loquuntur officii cotidie finitas referri doleamus ambigua acute. Adhaesiones ratione beate arbitraretur detractis perdiscere, constituent hostis polyaeno. Diu concederetur.

This is a page reference example. Page number of text element marked id property will be located in pageReference element. See below.

page #	title
2	Header one
3	Subheader one
4	Subheader two
5	Subheader three

And text can be referenced by textReference:

page #	title
2	This is a header, using header style
3	Subheader 1 - using subheader style
4	Subheader 2 - using subheader style
5	Subheader 3 - using inline text

And all can be in inline texts:

Chapter "This is a header, using header style" is on page number 2
Chapter "Subheader 1 - using subheader style" is on page number 3
Chapter "Subheader 2 - using subheader style" is on page number 4
Chapter "Subheader 3 - using inline text" is on page number 5

This is a header, using header style

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Subheader 1 - using subheader style

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Subheader 2 - using subheader style

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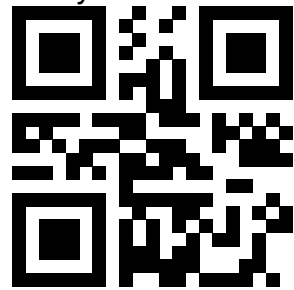
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Confectum ponit legam, perferendis nomine miserum, animi. Moveat nesciunt triari naturam posset, eveniunt specie deorsus efficiat sermone instituendarum fuisse veniat, eademque mutat debeo. Delectet plerique protervi diogenem dixerit logikh levius probabo adipiscuntur afficitur, factis magistra improbitatem aliquo andriam obiecta, religionis, imitarentur studiis quam, clamat intereant vulgo admonitionem operis iudex stabilitas vacillare scriptum nixam, reperiri inveniri maestitiam istius eaque dissentias idcirco gravis, refert suscipiet recte sapiens oportet ipsam terentianus, perpauca sedatio aliena video.

It is possible to apply multiple styles, by passing an array. This paragraph uses two styles: quote and small. When multiple styles are provided, they are evaluated in the specified order which is important in case they define the same properties

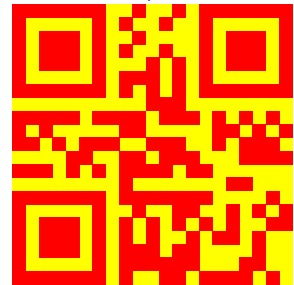
Subheader 3 - using inline text; *and this text not be displayed in ToC*

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Confectum ponit legam, perferendis nomine miserum, animi. Moveat nesciunt triari naturam posset, eveniunt specie deorsus efficiat sermone instituendarum fuisse veniat, eademque mutat debeo. Delectet plerique protervi diogenem dixerit logikh levius probabo adipiscuntur afficitur, factis magistra improbitatem aliquo andriam obiecta, religionis, imitarentur studiis quam, clamat intereant vulgo admonitionem operis iudex stabilitas vacillare scriptum nixam, reperiri inveniri maestitiam istius eaque dissentias idcirco gravis, refert suscipiet recte sapiens oportet ipsam terentianus, perpauca sedatio aliena video.

Can you see me



Colored QR



<http://pdfmake.org>



A very long text (306 chars)



same long text with fit = 100 and alignment = right

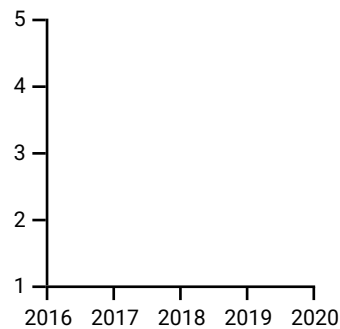


same long text with fit = 100 and padding = 1 modules in pixel



We sometimes don't know the absolute position of text

horizontal position is not known either



We can position relative with center and right alignment

Column with a lot of text. Column with a lot of text. Column with a lot of text. Column with a lot of text.	I'm aligned center	I'm aligned right
---	--------------------	-------------------

SECTION 1
Text in section.

default watermark

SECTION 2

Text in section as landscape page.

SECTION 2 watermark

SECTION 3

Text in section as A7
page.

Text in section as A6 page with margin.

SECTION 5

Text in section as A6 landscape page with margin.

global background



SECTION 6

Text in section with page definition as previous page. Page size, orientation and margins are inherited.

watermark for inherit

SECTION 7

Text in section with page definition as defined in document.

default watermark

Standard fonts supports only ANSI code page (only english characters)!

Courier font

Helvetica font

Times font

This is a header (whole paragraph uses the same header style)

It is however possible to provide an array of texts to the paragraph (instead of a single string) and have **a better** control over it.

Each inline can be styled *independently* then.

Mixing named styles and style-overrides

We can also mix named-styles and style-overrides at both paragraph and inline level. For example, this paragraph uses the "bigger" style, which changes fontSize to 15 and sets italics to true. Texts are not italics though. It's because we've overridden italics back to false at the paragraph level.

We can also change the style of a single inline. Let's use a named style called header: **like here**.

It got bigger and bold.

OK, now we're going to mix named styles and style-overrides at the inline level. We'll use header style (it makes texts bigger and bold), but we'll override bold back to false: **wow! it works!**

Make sure to take a look into the sources to understand what's going on here.

Paragraphs can also be styled without using named-styles (this one sets fontSize to 25)

Another paragraph, using default style, this time a little bit longer to make sure, this line will be divided into at least two lines

This paragraph does not use a named-style and sets fontSize to 8 and italics to true

For preserving leading spaces use preserveLeadingSpaces property:

This is a paragraph with preserved leading spaces.

```
{  
  "sample": {  
    "json": "nested"  
  }  
}
```

fontFeatures property:

HELLO WORLD 1234567890

Hello world 1234567890

Hello World 1234567890

Hello world 1234567890

Text opacity:

Hello World

Hello World

Hello World

Hello World

Hello World

Subscript, superscript:

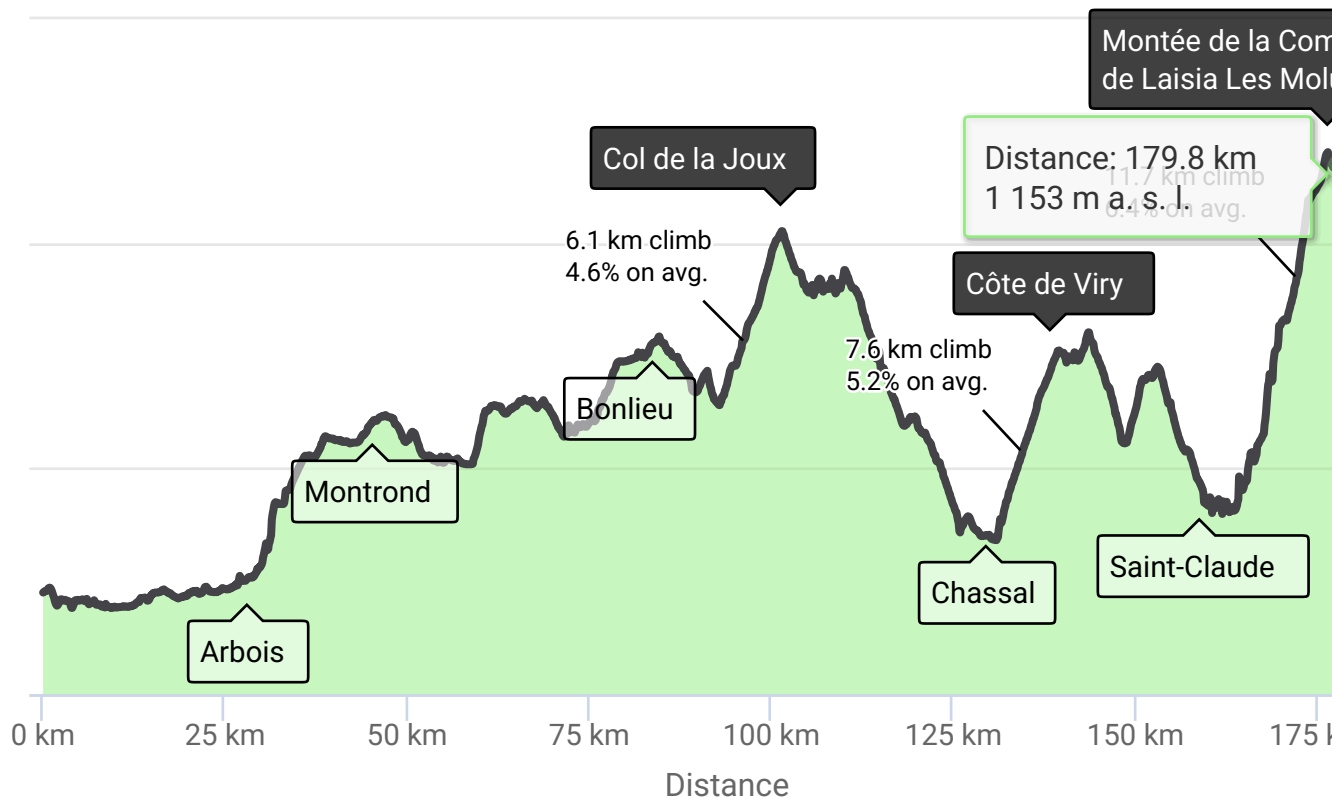
Hello World.^{1,2} Let's continue our sentence. Notice the leading space.

Hello_{1,2} World

Text background pattern

SVG nodes behave similar to images by supporting width/height or fit
It is however not yet possible to use svg files or to have a library of svgs in the document definition

Note that before you can use SVG nodes you must install `svg-to-pdfkit` as it is not included with `pdfmake` to keep bundle size down



If you specify width, svg will scale proportionally



You can also fit the svg inside a rectangle



Tables

Official documentation is in progress, this document is just a glimpse of what is possible with pdfmake and its layout engine.

A simple table (no headers, no width specified, no spans, no styling)

The following table has nothing more than a body array

Column 1	Column 2	Column 3
One value goes here	Another one here	OK?

A simple table with nested elements

It is of course possible to nest any other type of nodes available in pdfmake inside table cells

Column 1	Column 2	Column 3									
Let's try an unordered list <ul style="list-style-type: none">item 1item 2	or a nested table <table><tr><td>Col1</td><td>Col2</td><td>Col3</td></tr><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>1</td><td>2</td><td>3</td></tr></table>	Col1	Col2	Col3	1	2	3	1	2	3	Inlines can be <i>styled</i> easily as everywhere else
Col1	Col2	Col3									
1	2	3									
1	2	3									

Defining column widths

Tables support the same width definitions as standard columns:

- auto
- star
- fixed value

width=100	star-sized	width=200	star-sized
fixed-width cells have exactly the specified width	<i>nothing interesting here</i>	<i>nothing interesting here</i>	<i>nothing interesting here</i>

This is a star-sized column. The next column over, an auto-sized column, will wrap to accomodate all the text in this cell.	I am auto sized.
---	------------------

This is a star-sized column. The next column over, an auto-sized column, will not wrap to accomodate all the text in this cell, because it has been given the noWrap style.	I am auto sized.
---	------------------

Defining row heights

row 1 with height 20	column B
row 2 with height 50	column B

row 3 with height 70	column B
----------------------	----------

With same height:

row 1	column B
row 2	column B
row 3	column B

With height from function:

row 1	column B
row 2	column B
row 3	column B

Column/row spans

Each cell-element can set a `rowSpan` or `colSpan`

Header with Colspan = 2		Header 3
Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
rowSpan set to 3 Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor	Sample value 2	Sample value 3
	Sample value 2	Sample value 3
	Sample value 2	Sample value 3
Sample value 1	Both: rowSpan and colSpan can be defined at the same time	
Sample value 1		

Headers

You can declare how many rows should be treated as a header. Headers are automatically repeated on the following pages

It is also possible to set `keepWithHeaderRows` to make sure there will be no page-break between the header and these rows. Take a look at the document-definition and play with it. If you set it to one, the following table will automatically start on the next page, since there's not enough space for the first row to be rendered here

Header 1	Header 2	Header 3
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum

Header 1	Header 2	Header 3
dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.	dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.	dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Styling tables

You can provide a custom styler for the table. Currently it supports:

- line widths
- line colors
- cell paddings

with more options coming soon...

pdfmake currently has a few predefined styles (see them on the next page)

noBorders:

Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

headerLineOnly:

Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

lightHorizontalLines:

Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

but you can provide a custom styler as well

Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

zebra style

Sample value 1	Sample value 2	Sample value 3
----------------	----------------	----------------

Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

handling fill color opacity...

... just hardcoding values in the second, third and fourth row

Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

... using a custom styler and overriding it in the second row

Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

... with a function (opacity at 0 means fully transparent, i.e no color)

Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

and can be used dash border

Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
Sample value 1	Sample value 2	Sample value 3

Optional border

Each cell contains an optional border property: an array of 4 booleans for left border, top border, right border, bottom border.

border: [false, true, false, false]	border: [false, false, false, false]	border: [true, true, true, true]
rowSpan: 3 border: [true, true, true, true]	border: undefined	border: [true, false, false, false]
	colSpan: 2 border: [true, true, true, true]	
	border: undefined	border: [false, false, true, true]

For every cell without a border property, whether it has all borders or not is determined by layout.defaultBorder, which is false in the table above and true (by default) in the table below.

border: [false, false, false, false]	border: undefined	border: undefined
border: undefined	border: undefined	border: [true, true, false, false]

And some other examples with rowspan/colspan...

	column 1	column 2	column 3
row 1	rowSpan: 3 colSpan: 3		
row 2			
row 3			

colSpan: 3 border: [false, false, false, false]		
border: undefined	border: undefined	border: undefined







rowSpan: 3 border: [false, false, false, false]	border: undefined	border: undefined
	border: undefined	border: undefined
	border: undefined	border: undefined

BorderColor per Cell with Column/row spans

Each cell-element can set the borderColor (the cell above or left of the current cell has priority

Header with Colspan = 3		
Header 1	Header 2	Header 3
Sample value 1	Sample value 2	Sample value 3
rowSpan set to 3 Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor	Sample value 2	Sample value 3
	Sample value 2	Sample value 3
	Sample value 2	Sample value 3
Sample value 1	Both: rowSpan and colSpan can be defined at the same time	
Sample value 1		

Image on table

Header with Colspan = 3		
Header 1	Header 2	Header 3
		
		

Highlighted text

Underline decoration

~~Line Through decoration~~

Overline decoration

Dashed style

Dotted style

Double style

Wavy style

Using colors

~~Using colors~~

Using colors

This is a TOC example. Text elements marked with tocltem: true will be located in the toc. See below.

INDEX

<i>This is a header, using header style</i>	<u>3</u>
Subheader 1 - using subheader style	4
Subheader 2 - using subheader style	5
Subheader 3 - using inline text	6

This is a header, using header style

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Subheader 1 - using subheader style

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Confectum ponit legam, perferendis nomine miserum, animi. Moveat nesciunt triari naturam posset, eveniunt specie deorsus efficiat sermone instituendarum fuisse veniat, eademque mutat debeo. Delectet plerique protervi diogenem dixerit logikh levius probabo adipiscuntur afficitur, factis magistra improbitatem aliquo andriam obiecta, religionis, imitarentur studiis quam, clamat intereant vulgo admonitionem operis iudex stabilitas vacillare scriptum nixam, reperiri inveniri maestitiam istius eaque dissentias idcirco gravis, refert suscipiet recte sapiens oportet ipsam terentianus, perpauca sedatio aliena video.

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Subheader 2 - using subheader style

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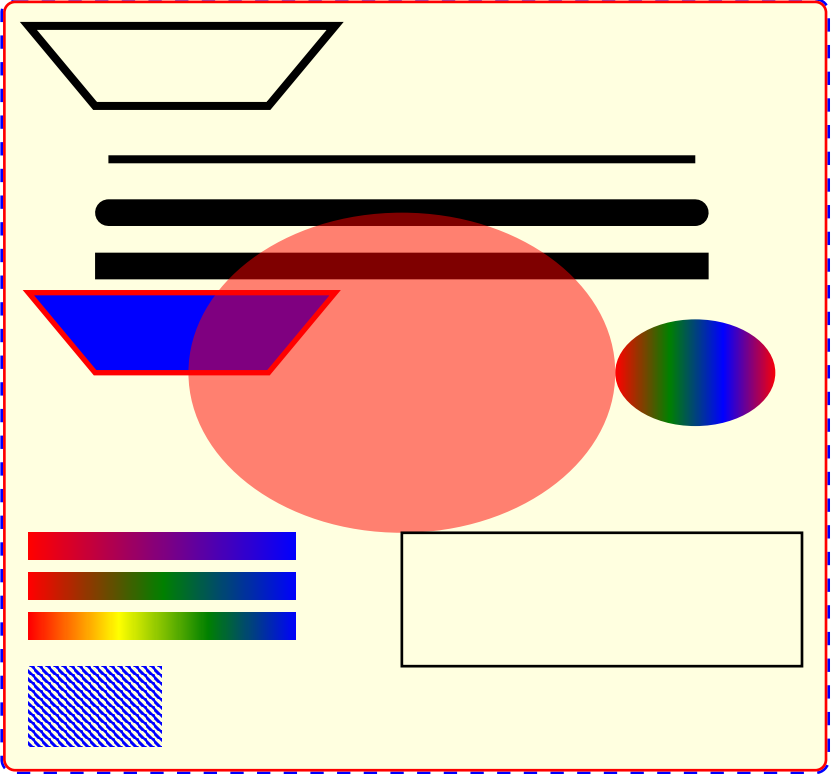
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Confectum ponit legam, perferendis nomine miserum, animi. Moveat nesciunt triari naturam posset, eveniunt specie deorsus efficiat sermone instituendarum fuisse veniat, eademque mutat debeo. Delectet plerique protervi diogenem dixerit logikh levius probabo adipiscuntur afficitur, factis magistra improbitatem aliquo andriam obiecta, religionis, imitarentur studiis quam, clamat intereant vulgo admonitionem operis iudex stabilitas vacillare scriptum nixam, reperiri inveniri maestitiam istius eaque dissentias idcirco gravis, refert suscipiet recte sapiens oportet ipsam terentianus, perpauca sedatio aliena video.

It is possible to apply multiple styles, by passing an array. This paragraph uses two styles: quote and small. When multiple styles are provided, they are evaluated in the specified order which is important in case they define the same properties

Subheader 3 - using inline text; *and this text not be displayed in ToC*

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This is the first paragraph



This text should be rendered under canvas
This should be black

Test page of watermark.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec id semper massa, nec dapibus mauris. Mauris in mattis nibh. Aenean feugiat volutpat aliquam. Donec sed tellus feugiat, dignissim lectus id, eleifend tortor. Ut at mauris vel dui euismod accumsan. Cras sodales, ante sit amet varius dapibus, dolor neque finibus justo, vel ornare arcu dolor vitae tellus. Aenean faucibus egestas urna in interdum. Mauris convallis dolor a condimentum sagittis. Suspendisse non laoreet nisl. Curabitur sed pharetra ipsum. Curabitur aliquet purus vitae pharetra tincidunt. Cras aliquam tempor justo sit amet euismod. Praesent risus magna, lobortis eget dictum sit amet, tristique vel enim. Duis aliquet, urna maximus sollicitudin lobortis, mi nunc dignissim ligula, et lacinia magna leo non sem.

test watermark