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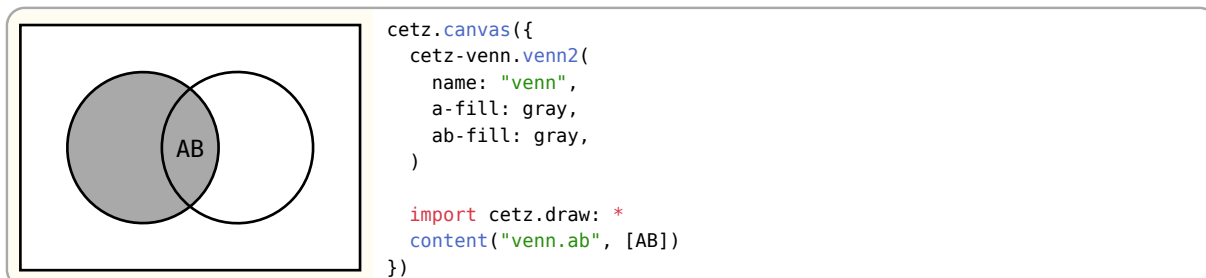
1 Introduction

CeTZ Venn is a tiny package for drawing two- and three-set Venn diagrams using Typst and CeTZ.

CeTZ version $\geq 0.3.1$ is required!

2 Examples

A simple two set Venn diagram:



A three set diagram with arrows:



3 Styling

All diagrams use the style root `venn` and accept the following style keys:

fill: `fill` Default: `"white"`

The default fill for all elements

stroke: `stroke` Default: `auto`

The default stroke for all elements

padding: `number` or `dictionary` Default: `2em`

Padding of the outer (rect) element. Per side padding can be specified by passing a dictionary with one or more of the following keys: `top`, `bottom`, `left`, `right` and `rest`, where `rest` acts as a fallback for unset values.

4 Functions

4.0.1 `venn2`

Draw a venn diagram with two sets `a` and `b`

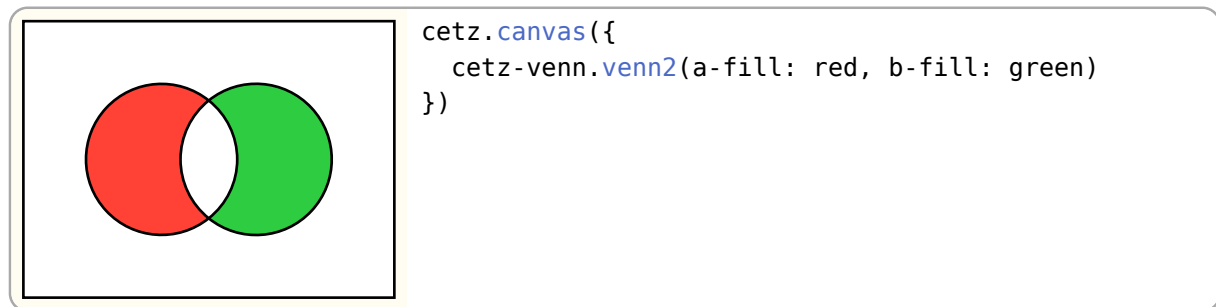
Set attributes:

The `venn2` function has two sets `a` and `b`, each of them having the following attributes:

- `*-fill`: Fill color

- `*-stroke`: Stroke style
- `*-layer`: CeTZ layer index

To set a set-attribute, combine the set name (a) and the attribute key (fill) with a dash: a-fill.



The following set names exist and also act as anchors (for labels):

- a
- b
- ab
- not-ab

Parameters

```

venn2(
  ..args: any ,
  name: none string
)

```

..args any

Set and style attributes

name none or string

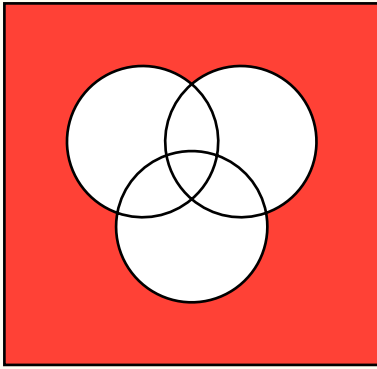
Element name

Default: none

4.0.2 venn3

Draw a venn diagram with three sets a, b and c

See venn2 for the attribute documentation.



```
cetz.canvas({
  cetz-venn.venn3(not-abc-fill: red)
})
```

The following set names exist and also act as anchors (for labels):

- a
- b
- c
- ab
- bc
- ac
- abc
- not-abc

Parameters

```
venn3(
  ..args: any ,
  name: none string
)
```

..args any

Set attributes

name none or string

Element name

Default: none