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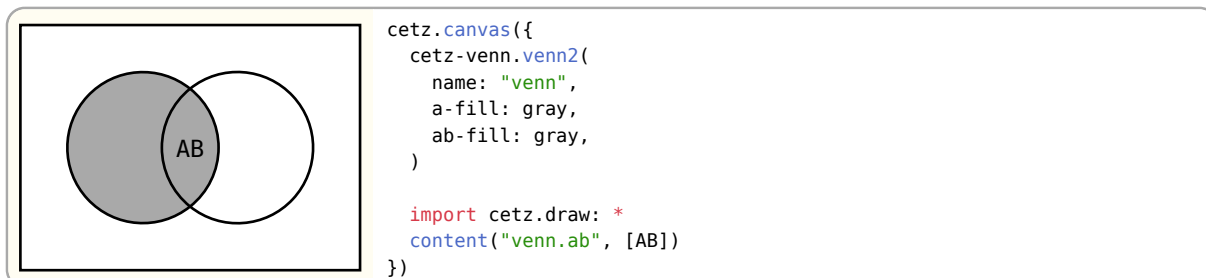
1 Introduction

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

CeTZ version $\geq 0.2.2$ 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

4.1.1 `venn2`

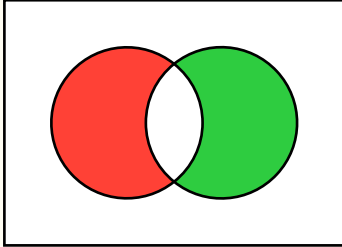
Draw a venn diagram with two sets `a` and `b`

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`.



```
cetz.canvas({
  cetz-venn.venn2(a-fill: red, b-fill: green)
})
```

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

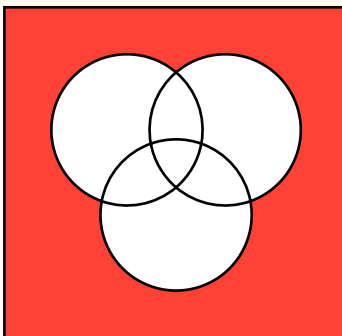
Element name

Default: none

4.1.2 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