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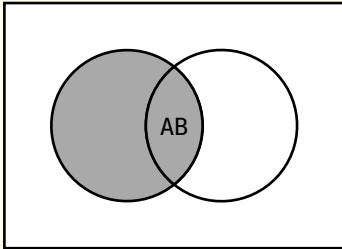
1 Introduction

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:



```

cetz.canvas({
  cetz-venn.venn2(
    name: "venn",
    a-fill: gray,
    ab-fill: gray,
  )

  import cetz.draw: *
  content("venn.ab", [AB])
})

```

A three set diagram with arrows:



```

cetz.canvas({
  cetz-venn.venn3(
    name: "venn",
    a-fill: gray,
    b-fill: gray,
    abc-fill: gray,
  )

  import cetz.draw: *
  content("venn.c", [C])

  line("venn.abc", (rel: (2.2,-2.5)), mark: (start: "o", fill: black),
    name: "arrow")
  content("arrow.end", [Here], anchor: "north", padding: .1)
})

```

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` Default: `2em`

Padding of the outer (rect) element

4 Functions

4.1.1 `venn2`

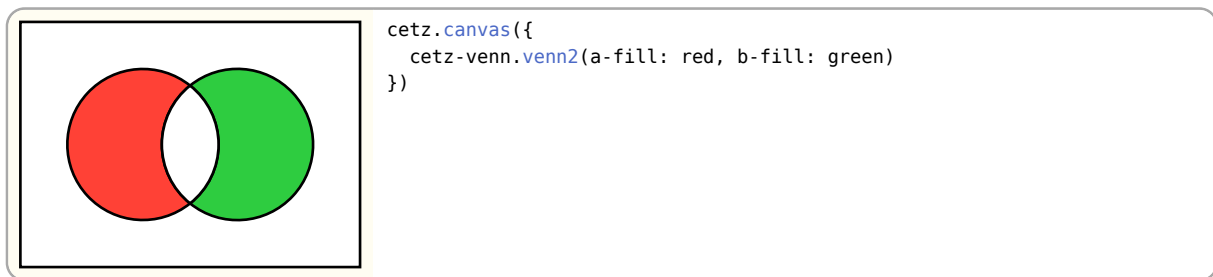
Draw a venn diagram with two sets `a` and `b`

Set attributes:

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

- `*-fill`: Fill color
- `*-stroke`: Stroke style

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 attributes

name: none or string

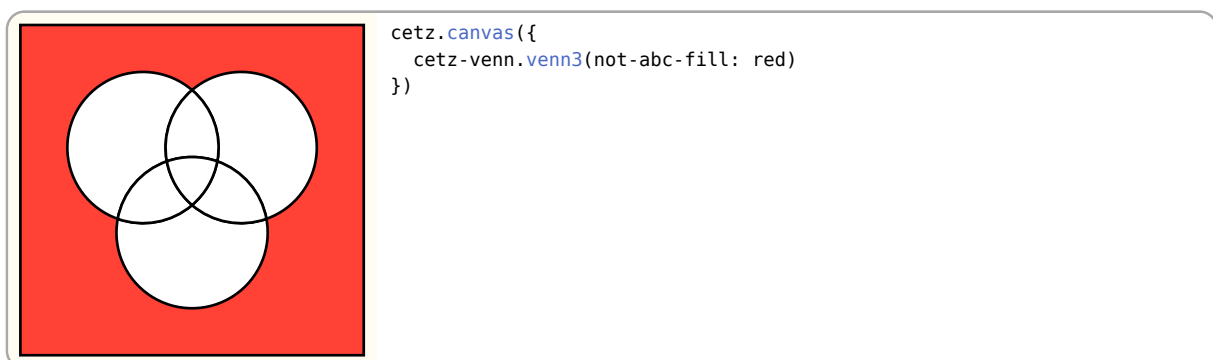
Element name

Default: none

4.1.2 venn3

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

See venn2 for the attribute documentation.



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,  
    padding,  
    name: none string  
)
```

..args: any

Set attributes

padding:

Default: **.5**

name: none or string

Default: **none**

Element name