

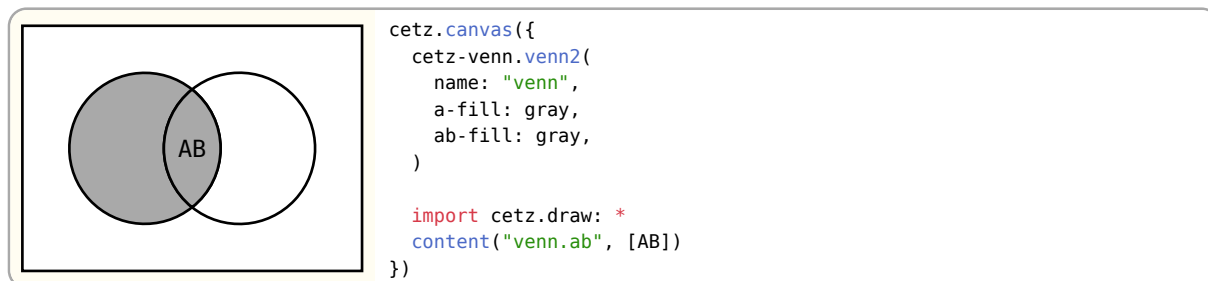
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## 1 Introduction

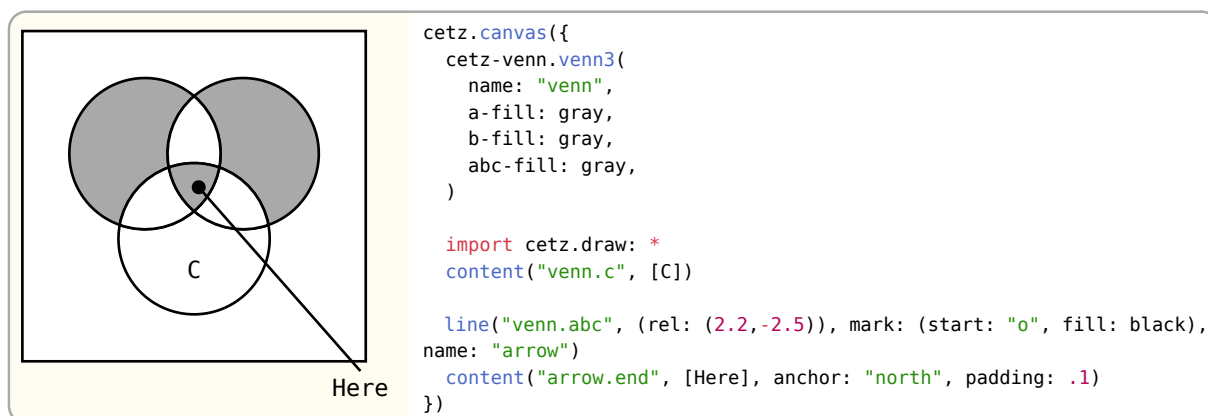
CeTZ Venn is a tiny package for drawing two- and three-set Venn diagrams using Typst and CeTZ.

## 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`

Default: `2em`

Padding of the outer (rect) element

## 4 Functions

### 4.1.1 `venn2`

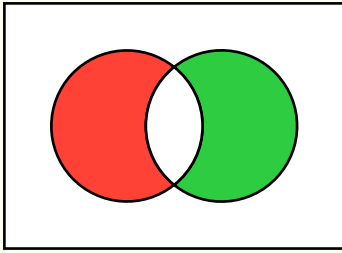
Draw a venn diagram with two sets `a` and `b`

#### 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`.



```
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 attributes

**name:** none or string

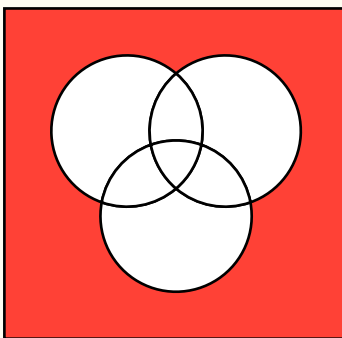
Element name

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,  
  padding,  
  name: none string  
)
```

**..args:** any

Set attributes

**padding:**

Default: .5

**name:** none or string

Default: none

Element name