

# Package ‘fabricerin’

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**Title** Create Easily Canvas in 'shiny' and 'RMarkdown' Documents

**Version** 0.1.2

**Description** Allows the user to implement easily canvas elements within a 'shiny' app or an 'RMarkdown' document.

The user can create shapes, images and text elements within the canvas which can also be used as a drawing tool for taking notes.

The package relies on the 'fabricjs' 'JavaScript' library. See <<http://fabricjs.com/>>.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**Imports** htmltools, glue

**URL** <https://github.com/feddelegrand7/fabricerin>

**BugReports** <https://github.com/feddelegrand7/fabricerin/issues>

**NeedsCompilation** no

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---

fabric_curtail	<i>Add a background or an overlay image to a preexisting canvas</i>
----------------	---

---

## Description

Add a background or an overlay image to a preexisting canvas

## Usage

```
fabric_curtail(cid, imgsrc, type = "background")
```

## Arguments

cid	the id of the canvas element
imgsrc	the URL source of the image
type	whether to use an image as a 'background' or as an 'overlay'

## Value

a canvas with a background or overlay image

## Examples

```
if (interactive()) {

img <- "https://st.depositphotos.com/1642482/1904/i/950/depositphotos_19049237-stock-photo-leaf.jpg"

ui <- fluidPage(

fabric_shape(cid = "canvas123",
             shapeId = "tri1",
             shape = "Triangle",
             fill = "darkblue"),

fabric_curtail(cid = "canvas123",
              imgsrc = img,
              type = "background"

)

}
```

```
)  
server <- function(input, output) {}  
  
shinyApp(ui = ui, server = server)  
}
```

---

fabric_drawing	<i>Create a canvas element for drawing</i>
----------------	--

---

## Description

Create a canvas element for drawing

## Usage

```
fabric_drawing(  
  cid,  
  cwidth = 800,  
  cheight = 600,  
  cfill = "#FFFFFF",  
  drawingWidth = 2,  
  gumSize = 10  
)
```

## Arguments

cid	the id of the canvas element
cwidth	the width of the canvas element
cheight	the height of the canvas element
cfill	the color of the canvas element. Default to #FFFFFF (white)
drawingWidth	the width of the drawing output. Default to 2
gumSize	specify the size of the gum. Defaults to 10

## Value

an HTML canvas element

**Examples**

```
if (interactive()) {  
  
  ui <- fluidPage(  
  
    h1("Draw some stuff here"),  
  
    fabric_drawing(cid = "canvas1")  
  
  )  
  
  server <- function(input, output) {}  
  
  shinyApp(ui = ui, server = server)  
  
}
```

---

fabric\_image

*Insert external images inside canvas element*

---

**Description**

Insert external images inside canvas element

**Usage**

```
fabric_image(  
  cid,  
  cwidth = 800,  
  cheight = 600,  
  cfill = "#FFFFFF",  
  imgId,  
  imgsrc,  
  imgwidth = 500,  
  imgheight = 500,  
  left = 100,  
  top = 100,  
  angle = 0,  
  opacity = 1,  
  strokecolor = "darkblue",  
  strokewidth = 1,  
  selectable = TRUE,  
  isDrawingMode = FALSE  
)
```

**Arguments**

cid	the id of the canvas element
cwidth	the width of the canvas element. Defaults to 800
cheight	the height of the canvas element. Defaults to 600
cfill	the color of the canvas element
imgId	the id of the image
imgsrc	the URL source of the image
imgwidth	the width of the image. Defaults to 500
imgheight	the height of the image. Defaults to 500
left	the image's position from the left relative to the canvas element. Defaults to 100
top	the image's position from the top relative to the canvas element. Defaults to 100
angle	the angle of rotation of the image. Defaults to 0 (no rotation)
opacity	the opacity of the image (from 0 to 1). Defaults to 1
strokecolor	the stroke color of the image. Defaults to 'darkblue'
strokewidth	the stroke width of the image. Defaults to 1
selectable	logical. If TRUE, the user can modify interactively the image's size, position and rotation. Defaults to TRUE
isDrawingMode	logical. If TRUE, the user can draw inside the canvas element.

**Value**

an image inside a canvas element

**Examples**

```

if (interactive()) {

img <- "https://upload.wikimedia.org/wikipedia/commons/thumb/1/1b/R_logo.svg/724px-R_logo.svg.png"

ui <- fluidPage(

fabric_image(cid = "cimage",
             cfill = "lightblue",
             imgId = "Ring",
             imgsrc = img)

)

server <- function(input, output) {}

shinyApp(ui = ui, server = server)

}

```

---

fabric\_image\_add      *Add an image to a preexisting canvas element*

---

### Description

Add an image to a preexisting canvas element

### Usage

```
fabric_image_add(  
  cid,  
  imgId,  
  imgsrc,  
  imgwidth = 500,  
  imgheight = 500,  
  left = 100,  
  top = 100,  
  angle = 0,  
  opacity = 1,  
  strokecolor = "darkblue",  
  strokewidth = 1,  
  selectable = TRUE  
)
```

### Arguments

cid	the id of the canvas element you want to add your image to
imgId	the of the image
imgsrc	the URL source of the image
imgwidth	the width of the image. Defaults to 500
imgheight	the height of the image. Defaults to 500
left	the image's position from the left relative to the canvas element. Defaults to 100
top	the image's position from the top relative to the canvas element. Defaults to 100
angle	the angle of rotation of the image. Defaults to 0 (no rotation)
opacity	the opacity of the image (from 0 to 1). Defaults to 1
strokecolor	the stroke color of the image. Defaults to 'darkblue'
strokewidth	the stroke width of the image. Defaults to 1
selectable	logical. If TRUE, the user can modify interactively the image's size, position and rotation. Defaults to TRUE

### Value

an image inside a preexisting canvas element

## Examples

```
if (interactive()) {

  img1 <- "https://upload.wikimedia.org/wikipedia/commons/thumb/1/1b/R_logo.svg/724px-R_logo.svg.png"
  img2 <- "https://raw.githubusercontent.com/rstudio/hex-stickers/master/PNG/dplyr.png"
  ui <- fluidPage(

    fabric_image(cid = "cimage",
                 imgId = "Rimg",
                 imgsrc = img1,
                 imgheight = 200,
                 imgwidth = 200),

    fabric_image_add(cid = "cimage",
                     imgId = "rstudioimg",
                     imgsrc = img2,
                     imgwidth = 200,
                     imgheight = 200,
                     left = 400)
  )

  server <- function(input, output) {}

  shinyApp(ui = ui, server = server)

}
```

---

fabric\_shape

*Create shapes inside a canvas*

---

## Description

Create shapes inside a canvas

## Usage

```
fabric_shape(
  cid,
  cwidth = 800,
  cheight = 600,
  cfill = "#FFFFFF",
  shapeId,
  shape = "Rect",
  left = 100,
  top = 100,
  fill = "red",
  width = 200,
  height = 200,
```

```

    angle = 0,
    opacity = 1,
    strokecolor = "darkblue",
    strokewidth = 5,
    selectable = TRUE,
    isDrawingMode = FALSE,
    radius = NULL,
    xPolygon = NULL,
    yPolygon = NULL
)

```

### Arguments

cid	the id of the canvas element
cwidth	the width of the canvas element. Defaults to 800
cheight	the height of the canvas element. Defaults to 600
cfill	the color of the canvas element
shapeId	the id of the shape object
shape	the shape of the object. Choices include 'Circle', 'Triangle' and 'Rect'. Defaults to 'Rect'
left	the shape's position from the left relative to the canvas element. Defaults to 100
top	the shape's position from the top relative to the canvas element. Defaults to 100
fill	the color of the shape. Defaults to 'red'
width	the width of the shape. Defaults to 200
height	the height of the shape. Defaults to 200
angle	the angle of rotation of the shape. Defaults to 0 (no rotation)
opacity	the opacity of the shape (from 0 to 1). Defaults to 1
strokecolor	the stroke color of the shape. Defaults to 'darkblue'
strokewidth	the stroke width of the shape. Defaults to 5.
selectable	logical. If TRUE, the user can modify interactively the shape's size, position and rotation. Defaults to TRUE
isDrawingMode	logical. If TRUE, the user can draw inside the canvas element.
radius	mandatory if the chosen shape is a 'Circle'. Defaults to NULL
xPolygon	a vector of the coordinate points of the polygon, from the left.
yPolygon	a vector of the coordinate points of the polygon, from the top

### Value

a shape object inside a canvas

**Examples**

```
if(interactive()){  
  ui <- fluidPage(  
  
    h2("Below you'll find a red Rectangle with a darkblue stroke"),  
    fabric_shape(cid = "canvas", shapeId = "shape1", shape = "Rect")  
  )  
  
  server <- function(input, output) {  
  
  }  
  
  shinyApp(ui = ui, server = server)  
}
```

---

fabric_shape_add	<i>Add a shape object to a preexisting canvas element</i>
------------------	---

---

**Description**

Add a shape object to a preexisting canvas element

**Usage**

```
fabric_shape_add(  
  cid,  
  shapeId,  
  shape = "Rect",  
  left = "100",  
  top = "100",  
  fill = "red",  
  width = 200,  
  height = 200,  
  angle = 0,  
  opacity = 1,  
  strokecolor = "darkblue",  
  strokewidth = 5,  
  selectable = TRUE,  
  radius = NULL,  
  xPolygon = NULL,
```

```

    yPolygon = NULL
  )

```

### Arguments

cid	the id of the canvas element you want to add your shape to
shapeId	the id of the shape object
shape	the shape of the object. Choices include 'Circle', 'Triangle' and 'Rect'. Defaults to 'Rect'
left	the shape's position from the left relative to the canvas element. Defaults to 100
top	the shape's position from the top relative to the canvas element. Defaults to 100
fill	the color of the shape. Defaults to 'red'
width	the width of the shape. Defaults to 200
height	the height of the shape. Defaults to 200
angle	the angle of rotation of the shape. Defaults to 0 (no rotation)
opacity	the opacity of the shape. Defaults to 1
strokecolor	the stroke color of the shape. Defaults to 'darkblue'
strokewidth	the stroke width of the shape. Defaults to 5.
selectable	logical. If TRUE, the user can modify interactively the shape. Defaults to TRUE
radius	Mandatory if the chosen shape is a 'Circle'. Defaults to NULL
xPolygon	a vector of the coordinate points of the polygon, from the left.
yPolygon	a vector of the coordinate points of the polygon, from the top

### Value

a shape object inside a preexisting canvas element

### Examples

```

if (interactive()) {

  ui <- fluidPage(

    fabric_shape(cid = "canvas",
                shapeId = "shape1",
                shape = "Rect",
                left = 130,
                top = 200),

    fabric_shape_add(cid = "canvas",
                    shapeId = "shapo",
                    shape = "Circle",
                    radius = 30,
                    left = 100,
                    top = 100),

```

```
    fabric_shape_add(cid = "canvas",
                     shapeId = "shapa",
                     shape = "Circle",
                     radius = 30,
                     left = 200,
                     top = 100),

    fabric_shape_add(cid = "canvas",
                     shapeId = "shapox",
                     shape = "Circle",
                     radius = 30,
                     left = 300,
                     top = 100),

    fabric_shape_add(cid = "canvas",
                     shapeId = "shapor",
                     shape = "Circle",
                     radius = 30,
                     left = 300,
                     top = 100)

)

server <- function(input, output) {}

shinyApp(ui = ui, server = server)

}
```

---

fabric\_text

*Insert text within canvas element*

---

## Description

Insert text within canvas element

## Usage

```
fabric_text(  
  cid,  
  cwidth = 800,  
  cheight = 600,  
  cfill = "#FFFFFF",  
  textId,  
  text,  
  left = 100,  
  top = 100,
```

```

    fill = "#2F3941",
    angle = 0,
    opacity = 1,
    fontFamily = "Comic Sans",
    fontSize = 40,
    fontStyle = "normal",
    strokecolor = "#282A36",
    strokewidth = 1,
    fontWeight = "normal",
    underline = FALSE,
    linethrough = FALSE,
    overline = FALSE,
    selectable = TRUE,
    shadow = FALSE,
    shadowCol = "#FFFAF0",
    textAlign = "center",
    lineHeight = 1,
    textBackgroundColor = NULL,
    isDrawingMode = FALSE
)

```

### Arguments

cid	the id of the canvas element
cwidth	the width of the canvas element. Defaults to 800
cheight	the height of the canvas element. Defaults to 600
cfill	the color of the canvas element
textId	the id of the text
text	the content of the text
left	the text's position from the left relative to the canvas element. Defaults to 100
top	the text's position from the top relative to the canvas element. Defaults to 100
fill	the text's color. Defaults to '#2F3941' (dark shade of cyan-blue)
angle	the angle of rotation of the text. Defaults to 0 (no rotation)
opacity	text opacity (from 0 to 1). Defaults to 1
fontFamily	the font family of the text. Defaults to 'Comic Sans'
fontSize	text sizing. Defaults to 40
fontStyle	the font style of the text. Either 'normal' or 'italic'
strokecolor	the stroke color of the text Defaults to '#282A36' (Very dark grayish blue)
strokewidth	the stroke width of the text. Defaults to 1
fontWeight	allows the user to make text thicker or thinner. Keywords can be used ('normal', 'bold'), or numbers. Defaults to 'normal'
underline	logical. Whether to underline the text or not. Defaults to FALSE
linethrough	logical. Whether to insert a line through the text or not. Defaults to FALSE

overline	logical. Whether to put a line above the text or not. Defaults to FALSE
selectable	logical. If TRUE, the user can modify interactively the image's size, position and rotation. Defaults to TRUE
shadow	logical. If TRUE a text shadow will be inserted behind the raw text. Defaults to FALSE
shadowCol	the color of the text shadow. Defaults to #FFF0F0 (floral white)
textAlign	the alignment of text. Useful when there are line breaks. Defaults to "center"
lineHeight	the height of the line breaks. Defaults to 1
textBackgroundColor	the background color of the text, defaults to NULL
isDrawingMode	logical. If TRUE, the user can draw inside the canvas element.

### Value

a text object within a canvas element

### Examples

```
if (interactive()) {  
  
  ui <- fluidPage(  
  
    fabric_text(cid = "can",  
               textId = "text",  
               text = "But A Hero Is A Guy Who Gives Out The Meat To Everyone Else.",  
               cfill = "#DD5347",  
               left = 120,  
               shadowCol = "blue",  
               fontSize = 20,  
               fontWeight = "bold",  
               lineHeight = 3  
             )  
  )  
  server <- function(input, output) {}  
  
  shinyApp(ui = ui, server = server)  
  
}
```

---

fabric_text_add	<i>Add text within preexisting canvas element</i>
-----------------	---

---

**Description**

Add text within preexisting canvas element

**Usage**

```
fabric_text_add(  
  cid,  
  textId,  
  text,  
  left = 100,  
  top = 100,  
  fill = "#2F3941",  
  angle = 0,  
  opacity = 1,  
  fontFamily = "Comic Sans",  
  fontSize = 40,  
  fontStyle = "normal",  
  strokecolor = "#282A36",  
  strokewidth = 1,  
  fontWeight = "normal",  
  underline = FALSE,  
  linethrough = FALSE,  
  overline = FALSE,  
  selectable = TRUE,  
  shadow = FALSE,  
  shadowCol = "#324C63",  
  textAlign = "center",  
  lineHeight = 1,  
  textBackgroundColor = NULL  
)
```

**Arguments**

cid	the id of the canvas element
textId	the id of the text
text	the content of the text
left	the text's position from the left relative to the canvas element. Defaults to 100
top	the text's position from the top relative to the canvas element. Defaults to 100
fill	the text's color. Defaults to '#2F3941' (dark shade of cyan-blue)
angle	the angle of rotation of the text. Defaults to 0 (no rotation)
opacity	text opacity (from 0 to 1). Defaults to 1

fontFamily	the font family of the text. Defaults to 'Comic Sans'
fontSize	text sizing. Defaults to 40
fontStyle	the font style of the text. Either 'normal' or 'italic'
strokecolor	the stroke color of the text Defaults to '#282A36' (Very dark grayish blue)
strokewidth	the stroke width of the text. Defaults to 1
fontWeight	allows the user to make text thicker or thinner. Keywords can be used ('normal', 'bold'), or numbers. Defaults to 'normal'
underline	logical. Whether to underline the text or not. Defaults to FALSE
linethrough	logical. Whether to insert a line through the text or not. Defaults to FALSE
overline	logical. Whether to put a line above the text or not. Defaults to FALSE
selectable	logical. If TRUE, the user can modify interactively the image's size, position and rotation. Defaults to TRUE
shadow	logical. If TRUE a text shadow will be inserted behind the raw text. Defaults to FALSE
shadowCol	the color of the text shadow. Defaults to #FFFAF0 (floral white)
textAlign	the alignment of text. Useful when there are line breaks. Defaults to "center"
lineHeight	the height of the line breaks. Defaults to 1
textBackgroundColor	the background color of the text, defaults to NULL

**Value**

a text object within a preexisting canvas element

**Examples**

```

if (interactive()) {

ui <- fluidPage(

fabric_shape(cid = "canvas123",
  cfill = "lightblue",
  cwidth = 1000,
  shapeId = "tri1",
  shape = "Triangle",
  fill = "darkblue"),

fabric_text_add(cid = "canvas123",
  textId = "txt1",
  text = "This is a darkblue Triangle !",
  left = 350
)

)
}

```

```
server <- function(input, output) {}  
shinyApp(ui = ui, server = server)  
  
}
```

---

filesaver\_dependency *Create an HTML dependency for FileSaver.js*

---

**Description**

Create an HTML dependency for FileSaver.js

Create an HTML dependency for fabric.js

Create an HTML dependency for jQuery

**Usage**

filesaver\_dependency()

fabric\_dependency()

jquery\_dependency()

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