

# Container

Parameter of Container:

height & width:

height and width define the dimensions of a widget, specifying its size along the vertical and horizontal axes, respectively,

The Container widget allows you to set properties such as height and width to control the size of the container.

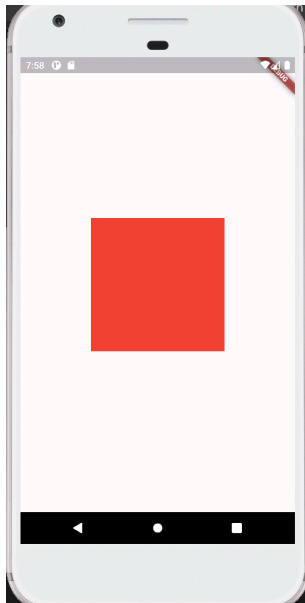
color:

Color defines the background color of the container.

Adjust values and color according to your layout and design preferences

```
child: Container(  
  child: Container(  
    height: 200,  
    width: 200,  
    color: Colors.red,  
  ), // Container  
) , // Container
```

OUTPUT:



padding:-

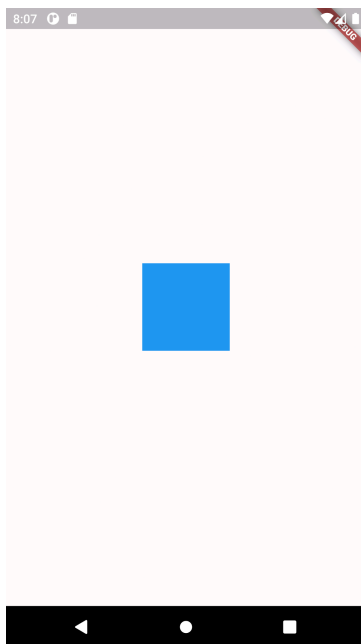
The padding adds space around the child. It is used to create space or margins around other widgets.

We can add padding in horizontal and vertical directions using `EdgeInsets.symmetric()`.

To add padding to a specific direction use `EdgeInsets.only()`. Similarly to add padding to all the directions use `EdgeInsets.all()`.

```
child: Container(  
  padding: const EdgeInsets.only(  
    left: 10,  
    right: 10,  
    top: 10,  
    bottom: 10,  
  ), // EdgeInsets.only  
  width: 100,  
  height: 100,  
  color: Colors.blue,  
), // Container
```

OUTPUT:



margin:-

margin is a property used to add space outside a widget's border. It represents the space between the widget's border and the surrounding widgets or the edge of the screen.

Similar to padding we have multiple options to give margin to Container i.e

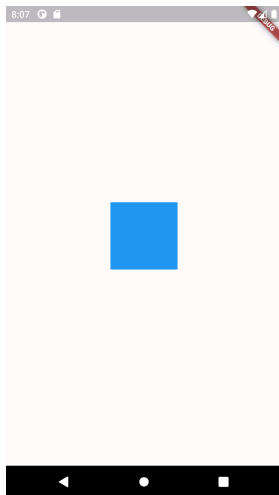
`EdgeInsets.only()`, `EdgeInsets.all()`, `EdgeInsets.symmetric()`

```

child: Container(
  margin: const EdgeInsets.only(
    left: 10,
    top: 10,
    bottom: 10,
  ), // EdgeInsets.only
  width: 100,
  height: 100,
  color: Colors.blue,
), // Container

```

OUTPUT:



decoration:-

decoration property is used to apply visual styling to a widget, typically a Container. It takes a BoxDecoration object that defines various visual elements such as color, border

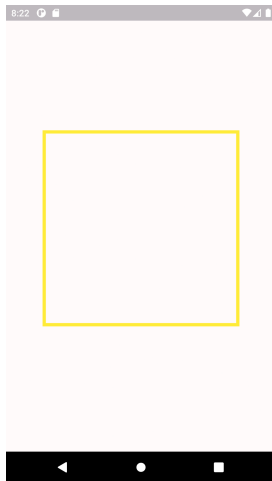
Border:

```

child: Container(
  height: 300,
  width: 300,
  decoration: BoxDecoration(
    border: Border.all(color: Colors.yellow, width: 5),
  ), // BoxDecoration
), // Container

```

OUTPUT:

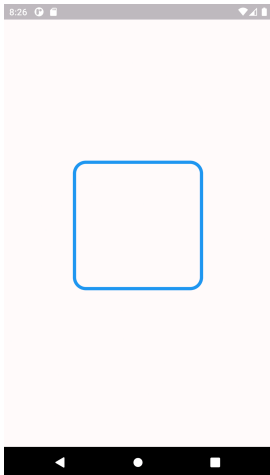


borderRadius:

To set the border to the Container we can use `Border.all()` , `Border.symmetric()` , `Border()`. We can set the border color, and border width using the `Border` class. To give the border to a particular side we can use the `Border()`.

```
child: Container(  
  height: 200,  
  width: 200,  
  decoration: BoxDecoration(  
    borderRadius: const BorderRadius.all(  
      Radius.circular(20),  
    ), // BorderRadius.all  
    border: Border.all(  
      color: Colors.blue,  
      width: 5,  
    )), // Border.all // BoxDecoration  
), // Container
```

OUTPUT:

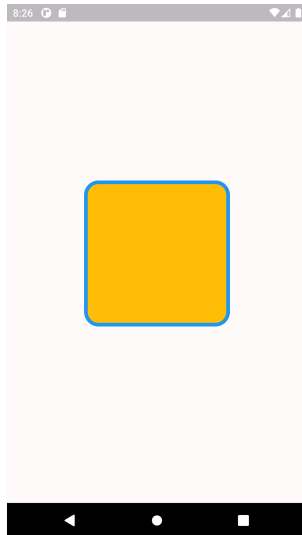


color:

This parameter is used to color the Container inside the decoration .

```
child: Container(  
  height: 200,  
  width: 200,  
  decoration: BoxDecoration(  
    color: Colors.amber,  
    borderRadius: const BorderRadius.all(  
      Radius.circular(20),  
    ), // BorderRadius.all  
    border: Border.all(  
      color: Colors.blue,  
      width: 5,  
    )), // Border.all // BoxDecoration  
), // Container
```

OUTPUT:



boxShadow:

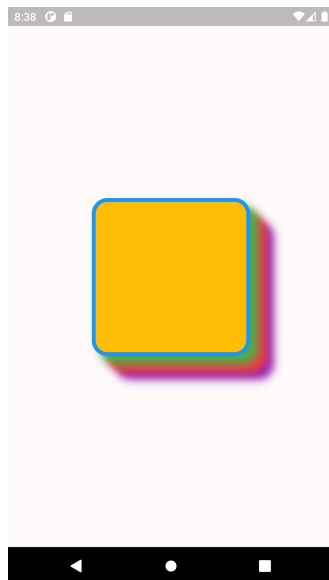
It takes a List of BoxShadow. Using this we can display the shadow behind the container. We can specify the color, offset(Position) and blurRadius in the BoxShadow. Positive x/y offsets will shift the shadow to the right and down, while

negative offsets shift the shadow to the left and up.

The first item in the list will represent the last layer of shadow.

```
child: Container(  
  height: 200,  
  width: 200,  
  decoration: BoxDecoration(  
    color: Colors.amber,  
    borderRadius: const BorderRadius.all(  
      Radius.circular(20),  
    ), // BorderRadius.all  
    border: Border.all(  
      color: Colors.blue,  
      width: 5,  
    ), // Border.all  
    boxShadow: const [  
      BoxShadow(  
        color: Colors.purple,  
        offset: Offset(30, 30),  
        blurRadius: 8), // BoxShadow  
      BoxShadow(  
        color: Colors.red, offset: Offset(20, 20), blurRadius: 8), // BoxShadow  
      BoxShadow(  
        color: Colors.green, offset: Offset(10, 10), blurRadius: 8), // BoxShadow  
    ],  
  ), // BoxDecoration  
) // Container
```

OUTPUT:



gradient:

Gradient refers to the transition between two or more colors.

We can give a gradient to the Container using `LinearGradient()`, `SweepGradient()`, `RadialGradient`

In the Linear Gradient, we need to specify the List of colors to be used to display the gradient.

We can also specify the position to place the color using the stops parameter.

The values in the stop parameter range between 0.0 to 1.0.

The values in the stops list must be in ascending order.

If a value in the [stops] list is less than an earlier value in the list, then its value is assumed to equal the previous value.

```
child: Container(  
  height: 200,  
  width: 200,  
  decoration: BoxDecoration(  
    color: Colors.amber,  
    borderRadius: const BorderRadius.all(  
      Radius.circular(20),  
    ), // BorderRadius.all  
    border: Border.all(  
      color: Colors.blue,  
      width: 5,  
    ), // Border.all  
    gradient: const LinearGradient(  
      stops: [0.3, 0.5],  
      colors: [Colors.red, Colors.green],  
    ), // LinearGradient  
  ), // BoxDecoration  
), // Container
```

OUTPUT:

