

布局Widget

2021年7月1日 15:28

根据子元素排列方式可以分为：

1. 线性布局Widget
2. 流式布局Widget
3. 层式布局Widget
4. 弹性布局Widget

一、线性布局Widget

Row：水平方向的线性布局

Column：垂直方向的线性布局

```
class RowWidget extends StatelessWidget {
  const RowWidget({Key? key}): super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text("demo")),
      body: Padding(
        padding: EdgeInsets.all(40.0),
        child: Row(
          children: <Widget>[
            Text("11"),
            Text("22")
          ],
        ),
      ),
    );
  }
}
```

如果一行内容超出宽度，会抛异常，比如

```
===== Exception caught by rendering library =====
The following assertion was thrown during layout:
A RenderFlex overflowed by 101 pixels on the right.
```

二、流式布局Widget

流式布局就是把超出屏幕显示范围的控件自动换行，flutter提供Wrap实现流式布局。

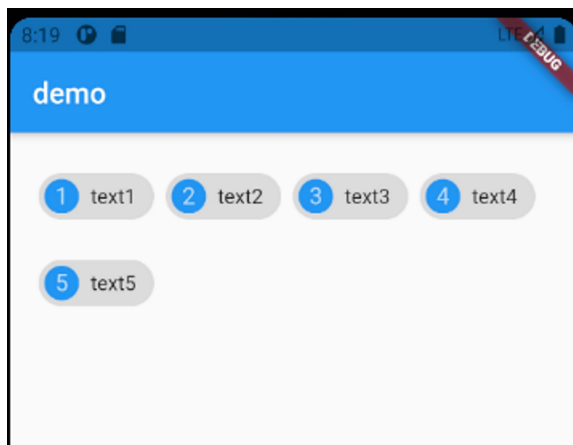
```
class ChipWidget extends StatelessWidget {
  const ChipWidget({Key? key}): super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
```

```

appBar:AppBar(title:Text('demo'),),
body:Padding(
padding:EdgeInsets.all(20.0),
child:Wrap(
direction:Axis.horizontal,
spacing:8.0,
runSpacing:12.0,
children:<Widget>[
Chip(label:Text("text1"),avatar:CircleAvatar(backgroundColor:Colors.blue,child:
Text("1"),),),
Chip(label:Text("text2"),avatar:CircleAvatar(backgroundColor:Colors.blue,child:
Text("2"),),),
Chip(label:Text("text3"),avatar:CircleAvatar(backgroundColor:Colors.blue,child:
Text("3"),),),
Chip(label:Text("text4"),avatar:CircleAvatar(backgroundColor:Colors.blue,child:
Text("4"),),),
Chip(label:Text("text5"),avatar:CircleAvatar(backgroundColor:Colors.blue,child:
Text("5"),),),
],
),
),
);
}
}

```



三、层式布局Widget

在flutter中可以通过stack实现层式布局，子Widget会按照添加顺序确定显示层级。后面添加的会覆盖在前面添加的Widget上面。

```

classStackWidgetextendsStatelessWidget{
constStackWidget({Key?key}):super(key:key);

@override
Widgetbuild(BuildContextcontext){
returnScaffold(
appBar:AppBar(title:Text('demo'),),
body:Stack(
fit:StackFit.expand,
children:<Widget>[
Positioned(
left:90.0,
top:120.0,

```

```

child:Image.asset('images/demo.png',width:200.0,fit:BoxFit.cover,),
),
Container(
child:Text('安卓之光',style:TextStyle(color:Colors.lightBlue,fontSize:20.0),),
height:50.0,
width:100.0,
alignment:Alignment.center,
)
],
),
);
}
}

```



注意的是，flutter不支持jpg图片

四、弹性布局Widget

flutter中的弹性布局是Flex。

```

class FlexWidget extends StatelessWidget {
  const FlexWidget({Key? key}): super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('demo')),
      body: Flex(
        direction: Axis.horizontal,
        children: <Widget>[
          Expanded(
            flex: 1,
            child: Container(
              height: 60.0,
              width: 30.0,
              color: Colors.red,
            ),
          ),
        ],
      ),
    );
  }
}

```

```
Expanded(  
  flex:3,  
  child:Container(  
    height:60.0,  
    width:30.0,  
    color:Colors.yellow,  
  )),  
Expanded(  
  flex:1,  
  child:Container(  
    height:60.0,  
    width:30.0,  
    color:Colors.blue,  
  ))  
],  
)  
);  
}  
}
```

