

Scrollviews in Flutter

SingleChildScrollView

A box in which a single widget can be scrolled. A box in which a single widget can be scrolled.

For more: <https://api.flutter.dev/flutter/widgets/SingleChildScrollView-class.html>

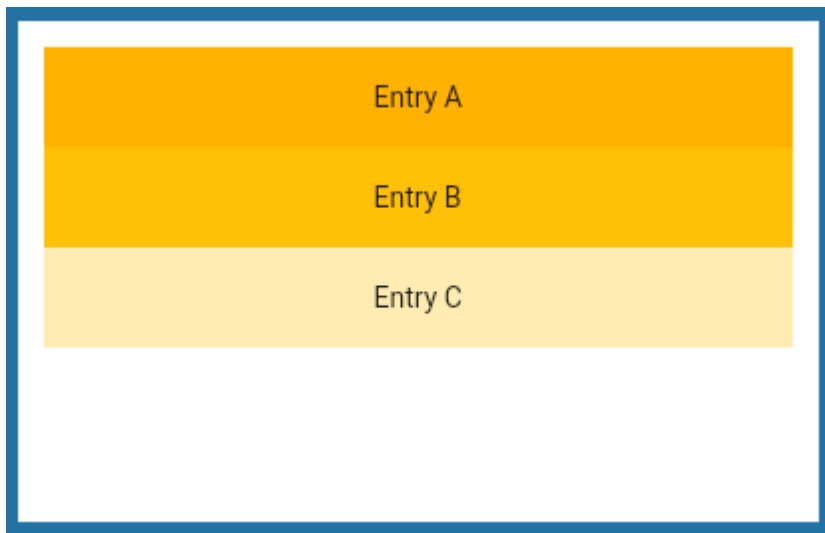
ListView

ListView is the most commonly used scrolling widget. It displays its children one after another in the scroll direction.

Types of listviews

- The default constructor takes an explicit List<Widget> of children. This constructor is appropriate for list views with a small number of children because constructing the List requires doing work for every child that could possibly be displayed in the list view instead of just those children that are actually visible.

```
ListView(  
  padding: const EdgeInsets.all(8),  
  children: <Widget>[  
    Container(  
      height: 50,  
      color: Colors.amber[600],  
      child: const Center(child: Text('Entry A'))),  
    ),  
    Container(  
      height: 50,  
      color: Colors.amber[500],  
      child: const Center(child: Text('Entry B'))),  
    ),  
    Container(  
      height: 50,  
      color: Colors.amber[100],  
      child: const Center(child: Text('Entry C'))),  
    ),  
  ],  
)
```

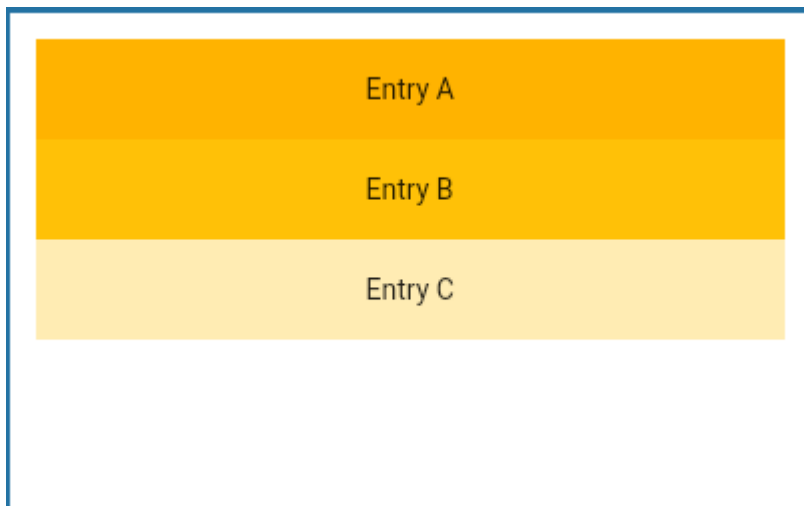


- The `ListView.builder` constructor takes an `IndexedWidgetBuilder`, which builds the children on demand. This constructor is appropriate for list views with a large (or infinite) number of children because the builder is called only for those children that are actually visible.

```
final List<String> entries = <String>['A', 'B', 'C'];
final List<int> colorCodes = <int>[600, 500, 100];

ListView.builder(
  padding: const EdgeInsets.all(8),
  itemCount: entries.length,
  itemBuilder: (BuildContext context, int index) {
    return Container(
      height: 50,
      color: Colors.amber[colorCodes[index]],
      child: Center(child: Text('Entry ${entries[index]}')),
    );
  }
);
```

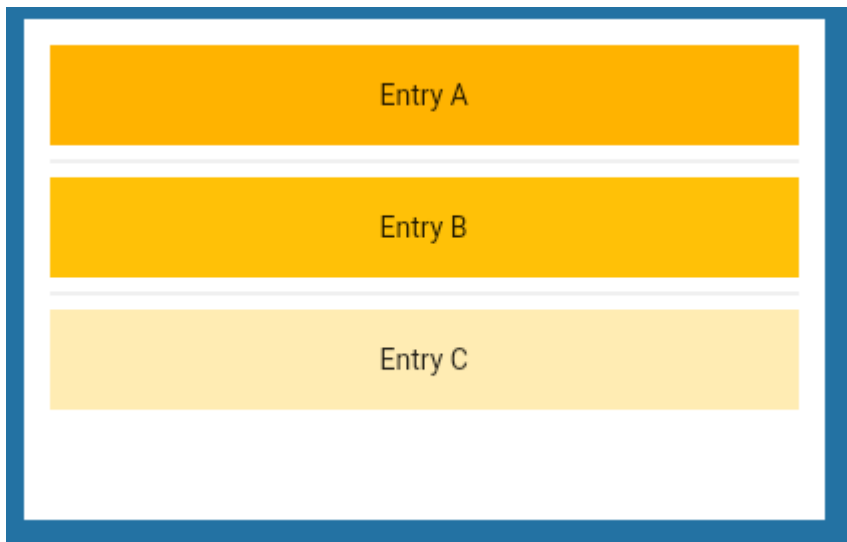
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- The `ListView.separated` constructor takes two `IndexedWidgetBuilders`: `itemBuilder` builds child items on demand, and `separatorBuilder` similarly builds separator children which appear in between the child items. This constructor is appropriate for list views with a fixed number of children.

```
final List<String> entries = <String>['A', 'B', 'C'];
final List<int> colorCodes = <int>[600, 500, 100];

ListView.separated(
  padding: const EdgeInsets.all(8),
  itemCount: entries.length,
  itemBuilder: (BuildContext context, int index) {
    return Container(
      height: 50,
      color: Colors.amber[colorCodes[index]],
      child: Center(child: Text('Entry ${entries[index]}')),
    );
  },
  separatorBuilder: (BuildContext context, int index) => const Divider(),
);
```



For more: <https://api.flutter.dev/flutter/widgets/ListView-class.html>

Navigate to another Screen and Back

use the `Navigator.push()` method. The `push()` method adds a `Route` to the stack of routes managed by the `Navigator`. Where does the `Route` come from? You can create your own, or use a `MaterialPageRoute`, which is useful because it transitions to the new route using a platform-specific animation.

```
onPressed: () {  
  Navigator.push(  
    context,  
    MaterialPageRoute(builder: (context) => SecondRoute()),  
  );  
}
```

Return to the first route Return to the first route

```
onPressed: () {  
  Navigator.pop(context);  
}
```

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