



Sticky Grouped Headers in Flutter



Marco Napoli

 @JediPixels

 In/marco-napoli-jedipixels



Course Demo App

Need to create grouped sticky headers?

There is a new widget in town, the **SliverMainAxisGroup** allows you to arrange multiple slivers together.

Create sticky headers that are pushed out of view as each sliver group scrolls by.

You'll learn to use the **SliverMainAxisGroup** with **AppBar** or **SliverPersistentHeaderDelegate** to create sticky headers.



1:50

Quotes by Sliver Group

Abigail Van Buren

■ If you want your children to turn out well, spend twice as much time with them, and half as much money.

Abraham Lincoln



■ It's not the years in your life that count. It's the life in your years.

Albert Einstein

■ Strive not to be a success, but rather to be of value.

■ A person who never made a mistake never tried anything new.


by Sliver Group


by Persistent Header


Overview

- `CustomScrollView` using slivers for scrolling effects and performance
- Group slivers with `SliverMainAxisGroup` widget containing sticky headers and grouped data
- Create sticky headers for each group by using `SliverAppBar`
- Alternatively create sticky headers for each group by using `SliverPersistentHeaderDelegate`
- Format actual grouped data with `ListTile` and leading `Icon`
- Create a service to load `Json` quotes `List` and `Map` them to a `class` model
- Create reusable widgets
- No third-party packages needed



Steps

- Group data list by Author

```
extension GroupByAuthorMap on List<Quote> {  
    Map<String, List<Quote>> groupByAuthorMap() {  
        final groupByAuthorMapList = <String, List<Quote>>{};  
  
        forEach((quote) {  
            (groupByAuthorMapList[quote.author] ??= []).add(quote);  
        });  
        return groupByAuthorMapList;  
    }  
}
```



Steps

- Group data list by Author
- Use `SliverMainAxisGroup` to group list to show the `Sticky Header` and the `Quotes List by Author`

```
SliverMainAxisGroup(  
  slivers: [  
    // Sticky Grouped Header,  
    // Quotes List by Author,  
  ],  
)
```



Steps

- Group data list by Author
- Use `SliverMainAxisGroup` to group list to show the `Sticky Header` and the `Quotes List by Author`
- Use `SliverMainAxisGroup` to group list with `SliverAppBar` and `QuotesByAuthor` widgets

```
SliverMainAxisGroup(  
  slivers: [  
    // Sticky Grouped Header,  
    // Quotes List by Author,  
  ],  
)
```

```
SliverMainAxisGroup(  
  slivers: [  
    SliverAppBar(),  
    QuotesByAuthor(),  
  ],  
)
```



Steps

- Group data list by Author
- Use `SliverMainAxisGroup` to group list to show the `Sticky Header` and the `Quotes List by Author`
- Use `SliverMainAxisGroup` to group list with `SliverAppBar` and `QuotesByAuthor` widgets
- Alternatively use the `SliverPersistentHeaderDelegate` for sticky header

```
SliverMainAxisGroup(  
  slivers: [  
    // Sticky Grouped Header,  
    // Quotes List by Author,  
  ],  
)  
  
SliverMainAxisGroup(  
  slivers: [  
    SliverPersistentHeader(  
      delegate: StickyHeaderDelegate(),  
    ),  
    QuotesByAuthor(),  
  ],  
)
```





Get the Starter Project

Up Next

You can import the **starter project** from **source-code/starter-project** directory provided in **Study Materials** of this course



Summary

- Used `CustomScrollView` slivers for scrolling effects and performance
- Grouped slivers with the `SliverMainAxisGroup` widget containing sticky headers and grouped data
- Used `SliverAppBar` to create sticky headers for each group
- Alternatively used `SliverPersistentHeaderDelegate` to create sticky headers for each group
- Used `ListTile` and leading `Icon` to view grouped data
- Created a service to load `Json` quotes `List` and `Map` them to a `class` model
- Created reusable widgets
- Did not use third-party packages





Thank You



Marco Napoli

 @JediPixels

 In/marco-napoli-jedipixels

