

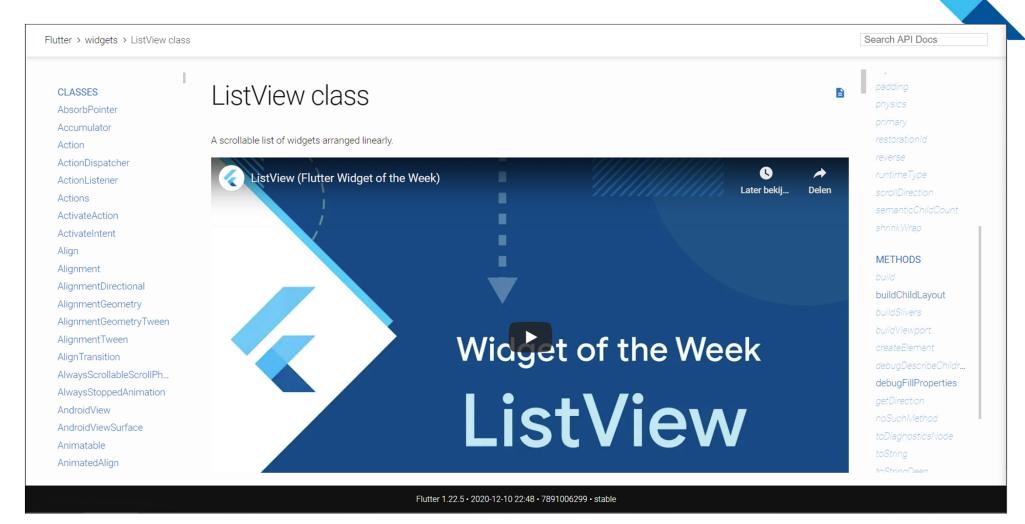
# Using ListView

Using ListView as a scrollable widget. Build its children via a builder function

# Showing all Countries in a ListView()

- We can now query an API and build a widget tree
- It is often convenient to use a ListView builder inside an Expanded()
- We're only fetching name, capital and flag from the API by using a fields string
  - RTFM!
  - Of course it would be better to create a CountryModel class

## **ListView**

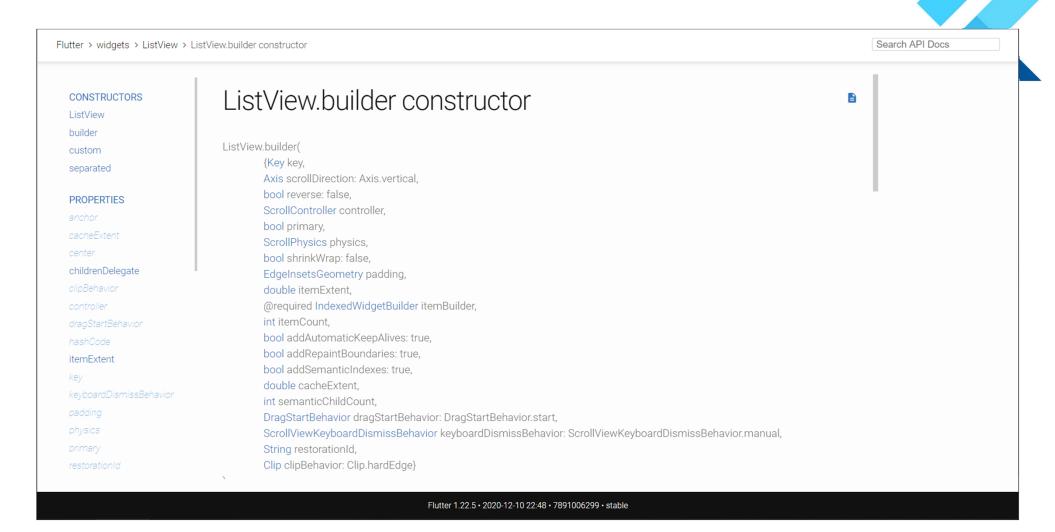


https://api.flutter.dev/flutter/widgets/ListView-class.html

## On ListViews

"ListView is the most commonly used scrolling widget. It displays its children one after another in the scroll direction. In the cross axis, the children are required to fill the ListView"

## ListView.builder



https://api.flutter.dev/flutter/widgets/ListView/ListView.builder.html

## On ListView.builder



"The ListView.builder constructor takes an IndexedWidgetBuilder, which builds the children on demand.

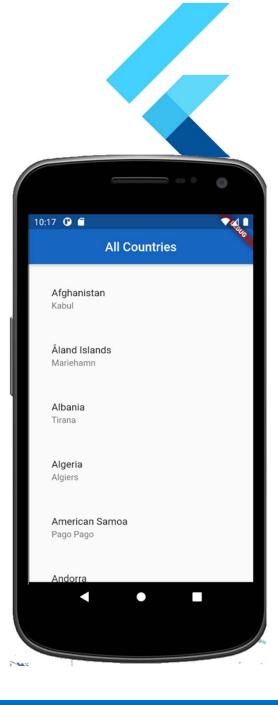
This constructor is appropriate for list views with a large number of children because the builder is called only for those children that are actually visible"

## Starting the body

Now build the itemBuilder function, which should return a widget tree showing the country details as retrieved.

#### Result

```
body: Column(
 children: [
    Expanded(
        child: ListView.builder(
            itemCount: countries.length,
            padding: EdgeInsets.all(10),
            // The function to build the items in the ListView
            itemBuilder: (BuildContext context, int index) {
              return Padding(
                padding: EdgeInsets.all(10.0),
                child: Column(
                  children: <Widget>[
                    ListTile(
                      title: Text(countries[index]['name']),
                      subtitle: Text(countries[index]['capital']),
```



# When using svg-images from the result:

- Flutter can't handle svg-images (flags) by default
- "there's a package for that"!
- Add flutter\_svg: ^0.19.1 to pubspec.yaml
- Pub get / Get dependencies

```
dependencies:
   flutter:
     sdk: flutter
   http: ^0.12.2
   flutter_svg: ^0.19.1
```

https://pub.dev/packages/flutter\_svg

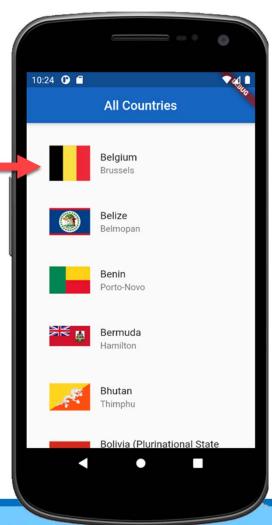
# Import and use the svg package

• Extend the ListTile() widget with a leading:

property

(Invalid svg's might throw an error)

```
leading: SvgPicture.network(
   // using a 3rd party package here,
   // as Flutter can't handle .svg-images (yet?).
   countries[index]['flag'],
   width: 64,
),
```



# Workshop

- Get (fake) user data from <u>https://jsonplaceholder.typicode.com/users</u>
- Display it in a ListView in your applications
  - Name
  - Email
  - Address
- Use:
  - http package
  - convert package
  - Async functions
  - ListView.builder()



```
I will practice my modeling technique 2 hours every day
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