```
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
lclass MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return new MaterialApp (
     title: 'welcome to flutter',
     home: new Scaffold(
       appBar: new AppBar(
         title: new Text ('welcome to flutter for android'),
       ),
       body: new Center(
         child: new Text ('hello world'),
       ),
     ),
   );
第二个程序 调用字体库
(1) 打开 pubspec. yaml 文件,
dev_dependencies:
 flutter_test:
    sdk: flutter
(2) 输入下面这两行
 cupertino_icons: ^0.1.0
 english_words: ^3.1.0
(3) 点击右上角 Packages get, 点击 run, 打开控制台, 可以看到这个日志
Performing hot reload...
```

```
Syncing files to device Lenovo L38041...
Reloaded 0 of 555 libraries in 254ms.
这样表示类库加载成功,然后去 lib 目录下的 main. dart 文件,输入:
import 'package:english_words/english_words.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    final wordPair = new WordPair.random();
    return new MaterialApp (
      title: 'welcome to flutter',
      home: new Scaffold(
        appBar: new AppBar(
          title: new Text ('welcome to flutter of ios'),
        ),
        body: new Center(
          child: new Text (wordPair. asCamelCase),
        ),
      ),
    );
然后运行,运行成功就可以看到字体库加载成功了
第三个程序, 多个控件类调用
import 'package:flutter/material.dart';
import 'package:english_words/english_words.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
```

```
@override
 Widget build(BuildContext context) {
   return new MaterialApp (
     title: 'welcome to flutter',
     home: new Scaffold(
       appBar: new AppBar(
         title: new Text ('welcome for mobile of this'),
       ),
       body: new Center(
         child: new RandomWords(),
       ),
     ),
   );
class RandomWords extends StatefulWidget {
 @override
 createState() => new RandomWordsState();
@override
 Widget build(BuildContext context) {
   final wordPair = new WordPair.random();
   return (new Text (wordPair. asPascalCase));
第四个程序,listView
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
```

```
return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
      ),
    );
class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return _myListView(context);
  Widget _myListView(BuildContext context) {
    return ListView(
      children: <Widget>[
        ListTile(
          title: Text('Sun'),
        ),
        ListTile(
          title: Text('Moon'),
        ),
      ],
    );
```

```
ListViews
  Sun
  Moon
  Star
 (2) 带下划线的 listview
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
iclass MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
      ),
    );
|class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return _myListView(context);
```

ListViews

Sun

Moon

Star

(3) 动态改变的ListView,需要从服务端拿到lists数据,然后在界面上进行展示,多条数据可以支持滑动显示,但是滑动性能还是有点差,不如原生的流畅,如果功能涉及多条数据的网络图片加载,可能导致页面卡顿

import 'package:flutter/material.dart';

```
void main() => runApp(new MyApp());
| class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Material App (
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
      ),
    );
class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return myListView(context);
  Widget _myListView(BuildContext context) {
    final lists = ['武松', '张飞', '赵云', '刘娥'];
    return ListView. builder(
      itemCount: lists.length,
      itemBuilder: (context, index) {
        return ListTile(
          title: Text(lists[index]),
        );
      },
    );
```

```
ListViews
 Malta
 Moldova
 Monaco
 Montenegro
 Netherlands
 Norway
 Poland
 Portugal
 Romania
 Russia
 (4) listView显示0-99, 一共100个item
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
```

```
);
class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return _myListView(context);
  }
  Widget myListView(BuildContext context) {
    return ListView. builder(
      itemCount: 100,
      itemBuilder: (context, index) {
        return ListTile(
          title: Text('row $index'),
        );
    );
 (5) 水平方向的List View
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Material App (
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
```

```
);
class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return _myListView(context);
  }
  Widget _myListView(BuildContext context) {
    return ListView. builder (
      scrollDirection: Axis. horizontal,
      itemBuilder: (context, index) {
        return Container (
          margin: const EdgeInsets. symmetric (horizontal: 1.0),
          color: Colors. tealAccent,
          child: Text('$index'),
        );
      },
    );
效果图:
 ListViews
 (5) 带图片样式的ListView
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
```

```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Material App (
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
      ),
    );
class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return myListView(context);
  Widget myListView(BuildContext context) {
    return ListView(
      children: <Widget>[
        ListTile(
          leading: Icon (Icons. wb sunny),
          title: Text('sun'),
          trailing: Icon (Icons. keyboard arrow right),
        ),
        ListTile(
          leading: Icon (Icons. brightness 3),
          title: Text('Moon'),
          trailing: Icon(Icons. keyboard_arrow_right),
        ),
        ListTile(
          leading: Icon (Icons. star),
          title: Text('stat'),
          trailing: Icon (Icons. keyboard arrow right),
```

```
);
效果图:
  ListViews
           Sun
           Moon
           Star
(6) 自定义的 listview, 带图文的那种
打开 pubspec. yaml 文件,添加
flutter:
  assets:
   - assets/
点击右上角的 packages get
开始 main. dart
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
```

```
@override
 Widget build(BuildContext context) {
    return Material App (
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
       body: BodyLayout(),
     ),
   );
class BodyLayout extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return myListView(context);
 Widget myListView(BuildContext context) {
    return ListView(
      children: <Widget>[
       ListTile(
          leading: CircleAvatar(
            backgroundImage: AssetImage('assets/pig.png'),
          ),
          title: Text('pig'),
          subtitle: Text('肉肉的,看起来很可爱'),
        ),
        ListTile(
            leading: CircleAvatar(
              backgroundImage: AssetImage('assets/cat.png'),
            ),
            title: Text('cat'),
            subtitle: Text('懒散的美,懂的享受生活'),
        ),
       ListTile(
          leading: CircleAvatar(
```

```
backgroundImage: AssetImage('assets/dog.png'),
          ),
          title: Text('dog'),
          subtitle: Text('这货看起来很可爱, 但是智商好像不高'),
        ),
      ],
    );
效果图:
 listviews of flutter
     肉肉的,看起来很可爱
     懒散的美, 懂的享受生活
     这货看起来很可爱,但是智商好像不
 (7) list 和图片 组成的 listview 视图
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Material App (
      debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
```

```
);
class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return _myListView(context);
  }
  Widget _myListView(BuildContext context) {
    final titles = [
      'bike',
      'boat',
      'bus',
      'car',
      'railway',
      'run',
      'subway',
      'transit',
      'walk',
      'usage',
      'perm'
  ];
    final icons = [
      Icons. directions_bike,
      Icons. directions_boat,
      Icons. directions_bus,
      Icons. directions_car,
      Icons. directions railway,
      Icons. directions run,
      Icons. directions subway,
      Icons. directions_transit,
      Icons. directions_walk,
      Icons. data_usage,
      Icons. perm_data_setting
    ];
    return ListView. builder (
```

ListViews 00 bike boat bus car railway run (8) 双列的ListView import 'package:flutter/cupertino.dart'; import 'package:flutter/material.dart'; void main() => runApp(new MyApp()); lclass MyApp extends StatelessWidget { @override Widget build(BuildContext context) { return MaterialApp(

```
debugShowCheckedModeBanner: false,
      title: 'listview',
      theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
      ),
    );
| class BodyLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return _myListView(context);
  Widget myListView(BuildContext context) {
    Widget column = Expanded(
      child: Column(
        crossAxisAlignment: CrossAxisAlignment. start,
        children: <Widget>[
          Text(
             'title',
            style: TextStyle(fontSize: 16),
          ),
          Text ('subtitle'),
        ],
      ),
    return ListView. builder(itemBuilder: (context, index) {
      return Card (
        child: Padding(
          padding: const EdgeInsets. all (8.0),
          child: Row(
             children: <Widget>[
               column,
               column,
             ],
```

```
),
      );
    });
效果图:
  ListViews
                                 Title
  Title
  subtitle
                                 subtitle
  Title
                                 Title
  subtitle
                                 subtitle
  Title
                                 Title
  subtitle
                                 subtitle
 Title
                                 Title
 subtitle
                                 subtitle
 (9) listView中 Item 点击事件, onTap 就是点击事件
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'listview',
```

```
theme: ThemeData(primarySwatch: Colors. teal),
      home: Scaffold(
        appBar: AppBar(title: Text('listviews of flutter')),
        body: BodyLayout(),
      ),
    );
class BodyLayout extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return myListView(context);
 Widget myListView(BuildContext context) {
    return ListView(
      children: <Widget>[
        ListTile(
          title: Text('sun'),
          trailing: Icon (Icons. keyboard arrow right),
          onTap: () {
            print('click sun');
          },
        ),
        ListTile(
          title: Text('Moon'),
          trailing: Icon(Icons. keyboard_arrow_right),
          onTap: () {
            print('click moon');
          },
        ),
        ListTile(
          title: Text('Star'),
          trailing: Icon (Icons. keyboard arrow right),
          onTap: () {
            print('click star');
          },
```

```
);
2020-06/com.example.flutterapp I/flutter: click sun
2020-06/com.example.flutterapp I/flutter: click moon
2020-06/com.example.flutterapp I/flutter: click star
 (10) ListView 新增和删除 item
import 'package:flutter/material.dart';
void main() => runApp(new BodyLayout());
class BodyLayout extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    return new BodyLayoutState();
class BodyLayoutState extends State<BodyLayout> {
 List <String > titles = ['Sun', 'Moon', 'Star'];
  @override
  Widget build(BuildContext context) {
    return myListView();
  Widget _myListView() {
    return ListView. builder(
        itemCount: titles. length,
        itemBuilder: (context, index) {
          final item = titles[index];
          return Card (
            child: ListTile(
              title: Text(item),
              onTap: () {
                setState(() {
```

```
titles. insert(index, 'Planet');
                });
              },
               onLongPress: () {
                 setState(() {
                   titles. removeAt (index);
                });
        });
无限循环的 listview
import 'package:flutter/material.dart';
import 'package:english_words/english_words.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return new MaterialApp (
      title: 'startup name generator likje',
      home: new RandomWords(),
    );
class RandomWords extends StatefulWidget {
  @override
  createState() => new RandomWordsState();
|class RandomWordsState | extends State<RandomWords> {
 final _suggestions = <WordPair>[];
```

```
final TextStyle _biggerFont = new TextStyle (fontSize: 18.0);
@override
Widget build(BuildContext context) {
  return new Scaffold(
    appBar: new AppBar(
      title: new Text ('startup name Generator likje'),
    ),
    body: buildSuggestions(),
  );
}
Widget _buildSuggestions() {
  return new ListView. builder (
    padding: const EdgeInsets. all (16.0),
    itemBuilder: (context, i) {
      if (i. isOdd) return new Divider();
      final index = i^{\sim}/2;
      if (index >= _suggestions. length) {
        suggestions. addAll(generateWordPairs().take(10));
      return _buildRow( suggestions[index]);
    },
  );
Widget buildRow(WordPair pair) {
  return new ListTile(
    title: new Text(
      pair. as Pascal Case,
      style: _biggerFont,
    ),
  );
```



```
createState() => new RandomWordsState();
lclass RandomWordsState extends State < RandomWords > {
  final suggestions = \(\text{WordPair}\)[];
  final saved = new Set<WordPair>();
  final _biggerFont = const TextStyle (fontSize: 18.0);
  @override
  Widget build(BuildContext context) {
    return new Scaffold(
      appBar: new AppBar(
        title: new Text ('startup name generator'),
      ),
      body: _buildSuggestions(),
    );
  Widget buildSuggestions() {
    return new ListView. builder (
      padding: const EdgeInsets. all (16.0),
      itemBuilder: (contetx, i) {
        if (i. isOdd) return new Divider();
        final index = i^{\sim}/2;
        if (index \ge suggestions. length) {
          _suggestions. addAll(generateWordPairs().take(10));
        return buildRow( suggestions[index]);
      },
    );
  }
  Widget buildRow(WordPair pair) {
    final alreadySaved = _saved. contains (pair);
    return new ListTile(
      title: new Text(
        pair. asPascalCase,
        style: biggerFont,
```

```
trailing: new Icon(
       alreadySaved ? Icons. favorite : Icons. favorite_border,
       color: alreadySaved ? Colors. red : null,
     ),
     onTap: () {
       setState(() {
         if (alreadySaved) {
           _saved.remove(pair);
         } else {
           _saved. add(pair);
       });
     },
   );
startup name generator
 BlueCloud
 BoxSong
 NeatHint
 PalmFrench
 CostStake
 WebHorse
                        \Diamond
```

导航页面跳转

TagAd

BrightBoy

0

0

```
import 'package:flutter/material.dart';
import 'package:english_words/english_words.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return new MaterialApp (
      title: 'startip name generator',
      home: new RandomWords(),
    );
| class RandomWords extends StatefulWidget {
  @override
  createState() => new RandomWordsState();
class RandomWordsState extends State < RandomWords > {
  final suggestions = \( \text{WordPair} \) [];
  final saved = new Set<WordPair>();
  final _biggerFont = const TextStyle(fontSize: 18.0);
  @override
  Widget build(BuildContext context) {
    return new Scaffold(
      appBar: new AppBar(
        title: new Text ('startup name generator'),
        actions: <Widget>[
          new IconButton (icon: new Icon (Icons. list), onPressed: pushSaved)
        ],
      ),
      body: _buildSuggestions(),
    );
  Widget _buildSuggestions() {
```

```
return new ListView. builder (
    padding: const EdgeInsets. all (16.0),
    itemBuilder: (context, i) {
      if (i. isOdd) return new Divider();
      final index = i^{\sim}/2;
      if (index >= _suggestions. length) {
        _suggestions.addAll(generateWordPairs().take(10));
      return _buildRow( suggestions[index]);
    },
  );
Widget buildRow(WordPair pair) {
  final alreadySaved = saved. contains (pair);
  return new ListTile(
    title: new Text(
      pair. asPascalCase,
      style: _biggerFont,
    ),
    trailing: new Icon(
      alreadySaved ? Icons. favorite : Icons. favorite border,
      color: alreadySaved ? Colors. red: null,
    ),
    onTap: () {
      setState(() {
        if (alreadySaved) {
          _saved.remove(pair);
        } else {
          _saved. add(pair);
      });
    },
  );
void _pushSaved() {
  Navigator. of (context). push (
    new MaterialPageRoute (
```

```
builder: (context) {
          final tiles = _saved. map(
            (pair) {
              return new ListTile(
                title: new Text(
                  pair. asPascalCase,
                  style: biggerFont,
                ),
              );
          ):
          final divided =
              ListTile. divideTiles(context: context, tiles: tiles). toList();
          return new Scaffold(
            appBar: new AppBar(
              title: new Text ('saved suggestions'),
            ),
            body: new ListView(children: divided),
          );
        },
    );
更改白色样式
import 'package:flutter/material.dart';
limport 'package:english_words/english_words.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return new MaterialApp(
      title: 'startup name generator',
      theme: new ThemeData(primaryColor: Colors. white),
      home: new RandomWords(),
```

```
);
class RandomWords extends StatefulWidget {
  @override
  createState() => new RandomWordsState();
class RandomWordsState extends State<RandomWords> {
  final suggestions = \(\text{WordPair}\)[];
  final _saved = new Set<WordPair>();
  final _biggerFont = const TextStyle (fontSize: 18.0);
  @override
  Widget build(BuildContext context) {
    return new Scaffold(
      appBar: new AppBar(
        title: new Text ('startup name generator'),
        actions: <Widget>[
          new IconButton(icon: new Icon(Icons. list), onPressed: pushSaved)
        ],
      ),
      body: _buildSuggestions(),
    );
  Widget buildSuggestions() {
    return new ListView. builder (
      padding: const EdgeInsets. all (16.0),
      itemBuilder: (context, i) {
        if (i.isOdd) return new Divider();
        final index = i ^{\sim}/2;
        if (index >= suggestions. length) {
          _suggestions. addAll(generateWordPairs().take(10));
        return _buildRow(_suggestions[index]);
```

```
Widget buildRow(WordPair pair) {
  final alreadySaved = saved. contains (pair);
  return new ListTile(
    title: new Text(
      pair. as Pascal Case,
      style: _biggerFont,
    ),
    trailing: new Icon(
      alreadySaved ? Icons. favorite : Icons. favorite_border,
      color: alreadySaved ? Colors. red: null,
    ),
    onTap: () {
      setState(
        () {
          if (alreadySaved) {
             saved. remove (pair);
          } else {
            saved. add (pair);
      );
    },
  );
void _pushSaved() {
  Navigator. of (context). push (
    new MaterialPageRoute(
      builder: (context) {
        final tiles = saved.map(
           (pair) {
            return new ListTile(
               title: new Text(
                 pair. asPascalCase,
                style: _biggerFont,
              ),
```

```
);
          final divided =
               ListTile. divideTiles(context: context, tiles: tiles). toList();
          return new Scaffold(
             appBar: new AppBar(
               title: new Text ('saved suggestions'),
             ),
             body: new ListView(children: divided),
           );
        },
      ),
    );
 startup name generator
  FlagScreen
  BigCure
  KeyPatch
  WeekBoot
                        0
  ShortSmile
                        0
  FanPause
                        0
  TouchToe
                        0
  DockFool
顶部栏控件
```

```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
lclass MyAppBar extends StatelessWidget {
  MyAppBar({this. title});
  final Widget title;
  @override
  Widget build(BuildContext context) {
    return new Container (
      height: 126.0,
      padding: const EdgeInsets. symmetric (horizontal: 8.0),
      decoration: new BoxDecoration(color: Colors. blue[500]),
      child: new Row(
        children: <Widget>[
           new IconButton (
             icon: new Icon (Icons. menu),
             tooltip: 'Menu',
             onPressed: null,
           ),
           new Expanded (
             child: title,
           ),
           new IconButton (
             icon: new Icon (Icons. search),
             tooltip: 'search',
             onPressed: null,
          ),
        ],
    );
| class MyScaffold extends StatelessWidget |
  @override
  Widget build(BuildContext context) {
    return new Material (
```

```
child: new Column (
        children: <Widget>[
          new MyAppBar (
            title: new Text(
              'Example title',
              style: Theme. of(context). primaryTextTheme. title,
            ),
          ),
          new Expanded (
            child: new Center(
              child: new Text ('hello world'),
            ),
          ),
       ],
    );
void main() {
  runApp(
    new MaterialApp(
      title: 'myapp',
      home: new MyScaffold(),
    ),
  );
左侧标题栏 菜单和搜索,新增添加按钮
import 'package:flutter/material.dart';
void main() => runApp(
      new MaterialApp(
        title: ",
        home: new TutorialHome(),
      ),
    );
```

```
class TutorialHome extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return new Scaffold(
      appBar: new AppBar(
        leading: new IconButton(
            icon: new Icon (Icons. menu),
            tooltip: 'Navigation menu',
            onPressed: null),
        title: new Text ('title'),
        actions: <Widget>[
          new IconButton(
            icon: new Icon (Icons. search),
            tooltip: 'search',
            onPressed: null,
          ),
        ],
      ),
      body: new Center(
        child: new Text ('hello world'),
      ),
      floatingActionButton: new FloatingActionButton(
        tooltip: 'Add',
        child: new Icon (Icons. add),
        onPressed: null.
      ),
    );
异步线程
import 'dart:io';
import 'package:flutter/material.dart';
void main(List<String> args) {
  doComplexJob();
 print("end" + new DateTime.now().toString());
```

```
idoComplexJob() async {
 print("start:" + new DateTime.now().toString());
 print (await new Future. delayed (Duration (seconds: 2), () => "stop: ") +
      new DateTime. now(). toString());
监听程序的生命周期
import 'package:english_words/english_words.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    return new MaterialApp (
      title: ",
     home: new RandomWords(),
    );
lclass RandomWords extends StatefulWidget {
 @override
 createState() => new RandomWordsState();
final _suggestions = \( \text{WordPair} \) [];
 final _saved = new Set<WordPair>();
 final _biggerFont = const TextStyle(fontSize: 18.0);
 @override
```

```
Widget build(BuildContext context) {
  return new Scaffold(
    appBar: new AppBar(
      title: new Text ('startup name generator'),
    body: _buildSuggestions(),
  );
Widget buildSuggestions() {
  return new ListView. builder(
    padding: const EdgeInsets. all (16.0),
    itemBuilder: (contetx, i) {
      if (i. isOdd) return new Divider();
      final index = i^{\sim}/2;
      if (index >= suggestions. length) {
        _suggestions.addAll(generateWordPairs().take(10));
      return buildRow( suggestions[index]);
    },
  );
Widget _buildRow(WordPair pair) {
  final alreadySaved = saved. contains (pair);
  return new ListTile(
    title: new Text(
      pair. asPascalCase,
      style: biggerFont,
    ),
    trailing: new Icon(
      alreadySaved ? Icons. favorite : Icons. favorite border,
      color: alreadySaved ? Colors. red: null,
    ),
    onTap: () {
      setState(() {
        if (alreadySaved) {
          _saved.remove(pair);
        } else {
```

```
saved. add(pair);
     });
    },
  );
@override
void initState() {
  // TODO: implement initState
super. initState();
  print("初始化");
@override
void didUpdateWidget(RandomWords oldWidget) {
 // TODO: implement didUpdateWidget
super. didUpdateWidget(oldWidget);
  print("重新构建组件");
@override
void deactivate() {
 // TODO: implement deactivate
super. deactivate();
  print("组件状态变为非活动时调用");
@override
void dispose() {
 // TODO: implement dispose
super. dispose();
  print("组件销毁");
@override
void reassemble() {
 // TODO: implement reassemble
super. reassemble();
```

```
print("热重载时调用,仅在开发调试阶段有效");
  @override
  void didChangeDependencies() {
    // TODO: implement didChangeDependencies
  super. didChangeDependencies();
    print("依赖发生改变");
点击控件,显示不同的背景颜色
limport 'package:english_words/english_words.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
iclass MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return new MaterialApp(title: 'flutter demo', home: new TopArea());
//界面顶部区域
| class TopArea extends Stateful Widget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return TopAreaState();
//界面顶部区域 state
|class TopAreaState extends State<TopArea> {
  var focuesd = false:
 void doClick() {
```

```
setState(() {
      focuesd = !focuesd;
    });
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return GestureDetector(
      onTap: doClick,
      child: Container(
        child: Center(
          child: Text(
            "click me",
            style: TextStyle(fontSize: 18.0, color: Colors. blue),
          ),
        ),
        width: double. infinity,
        height: 200.0,
        decoration: BoxDecoration(
          color: focuesd? Colors. green: Colors. pink,
        ),
      ),
    );
| Iclass | RandomWords | extends | StatefulWidget |
  @override
  createState() => new RandomWordsState();
final suggestions = \( \text{WordPair} \) [];
  final _saved = new Set<WordPair>();
  final _biggerFont = const TextStyle (fontSize: 18.0);
  @override
  Widget build(BuildContext context) {
    return new Scaffold(
```

```
appBar: new AppBar(
      title: new Text ('startup name generator'),
    ),
    body: _buildSuggestions(),
  );
}
Widget _buildSuggestions() {
  return new ListView. builder (
    padding: const EdgeInsets. all (16.0),
    itemBuilder: (contetx, i) {
      if (i. isOdd) return new Divider();
      final index = i^{\sim}/2;
      if (index >= suggestions. length) {
        _suggestions. addAll(generateWordPairs().take(10));
      return _buildRow(_suggestions[index]);
    },
  );
}
Widget _buildRow(WordPair pair) {
  final alreadySaved = _saved. contains (pair);
  return new ListTile(
    title: new Text(
      pair. as Pascal Case.
      style: biggerFont,
    ),
    trailing: new Icon(
      alreadySaved ? Icons. favorite : Icons. favorite border,
      color: alreadySaved ? Colors. red: null,
    ),
    onTap: () {
      setState(() {
        if (alreadySaved) {
          _saved.remove(pair);
        } else {
           saved. add(pair);
```

```
});
   },
 );
@override
void initState() {
 // TODO: implement initState
super. initState();
 print("初始化");
@override
void didUpdateWidget(RandomWords oldWidget) {
  // TODO: implement didUpdateWidget
super. didUpdateWidget(oldWidget);
 print("重新构建组件");
@override
void deactivate() {
 // TODO: implement deactivate
super. deactivate();
 print("组件状态变为非活动时调用");
@override
void dispose() {
 // TODO: implement dispose
super. dispose();
  print("组件销毁");
@override
void reassemble() {
 // TODO: implement reassemble
super. reassemble();
  print("热重载时调用,仅在开发调试阶段有效"):
```

```
@override
 void didChangeDependencies() {
   // TODO: implement didChangeDependencies
  super. didChangeDependencies();
   print("依赖发生改变");
点击显示不同的背景颜色
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
Widget build(BuildContext context) {
```

```
// TODO: implement build
  return MaterialApp(
      title: 'flutter Demo',
      theme: ThemeData(
        primarySwatch: Colors. blue,
      ),
      home: new Scaffold(
        appBar: new AppBar(
          title: new Text ('welcome to flutter'),
        ),
        body: new Center(
          child: new ThreeArea(),
        ),
class ThreeArea extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Container (
      child: Column(
        children: <Widget>[
          TopArea(),
          MidAreaParent(),
          BottomAreaParent(),
        ],
      ),
    );
lclass TopArea extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return new TopAreaState();
```

```
var focused = false;
 void doClick() {
   setState(() {
     focused = !focused;
   });
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
  return new GestureDetector (
     onTap: doClick,
     child: new Container(
       child: Center(
         child: new Text(
          "click uzi me",
          style: new TextStyle(fontSize: 18.0, color: Colors. pink),
        ),
       width: double. infinity,
       height: 200.0,
       decoration: new BoxDecoration(
         color: focused ? Colors. red : Colors. grey,
       ),
     ),
   );
@override
 State<StatefulWidget> createState() {
   // TODO: implement createState
  return new MidAreaParentState();
```

```
var focused = false;
 void handleClick(bool focused) {
   setState(() {
     this. focused = focused;
   });
  @override
 Widget build(BuildContext context) {
   // TODO: implement build
  return new Container (
     child: new MidArea(
       focused: focused,
       focusChanged: handleClick,
     ),
   );
class MidArea extends StatelessWidget {
 final focused:
 final ValueChanged<bool> focusChanged;
 MidArea({this. focused, this. focusChanged});
 void doClick() {
   focusChanged(!focused);
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
  return new GestureDetector(
     onTap: doClick,
     child: new Container(
```

```
child: Center(
          child: new Text(
            "Click me",
            style: new TextStyle(fontSize: 18.0, color: Colors. pink),
         ),
        ),
        width: double. infinity,
        height: 200.0,
        decoration: new BoxDecoration(
          color: focused ? Colors. green : Colors. grey,
       ),
      ),
    );
class BottomAreaParent extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
   // TODO: implement createState
  return new BottomAreaParentState();
iclass BottomAreaParentState extends State BottomAreaParent> {
  var focused;
  void handleClick(bool focused) {
    setState(() {
      this. focused = focused;
      if (focused) {
        debugPrint("change to blue");
      } else {
        debugPrint("change to gray");
    });
  @override ____
```

```
Widget build(BuildContext context) {
    // TODO: implement build
  return new Container(
      child: new BottomArea(
        focused: this. focused,
        focusChanged: handleClick,
      ),
    );
class BottomArea extends StatefulWidget {
  final bool focused:
  final ValueChanged<bool> focusChanged;
  BottomArea({this. focused, this. focusChanged});
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return new BottomAreaState();
lclass BottomAreaState extends State BottomArea {
  var focused = false;
  void doClick() {
    setState(() {
      focused = !focused;
    });
    widget. focusChanged (focused);
  @override
  Widget build(BuildContext context) {
   // TODO: implement build
  return new GestureDetector(
      onTap: doClick,____
```

```
child: new Container(
        child: Center(
          child: new Text(
            "click me",
            style: new TextStyle(fontSize: 18.0, color: Colors. pink),
          ),
        ),
        width: double. infinity,
        height: 200.0,
        decoration: new BoxDecoration(
          color: focused ? Colors. blue : Colors. grey,
        ),
      ),
    );
 welcome to flutter
自定义的文本按钮
```

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return new MaterialApp(
      title: 'hello world',
      home: new Scaffold(
        appBar: new AppBar(
          title: new Text ('welcome to flutter'),
        ),
        body: new Center(
          child: new GradientButtonRoute(),
        ),
      ),
    );
class GradientButtonRoute extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Container (
      child: Column(
        children: <Widget>[
          GradientButton(
            colors: [Colors. black12, Colors. black38],
            height: 50.0,
            child: Text("按钮一"),
          ),
          GradientButton(
            colors: [Colors. lime, Colors. green],
            height: 50.0,
            child: Text("按钮二"),
```

```
GradientButton(
            colors: [Colors. lightBlueAccent, Colors. blue],
            height: 50.0,
            child: Text("按钮三"),
       ],
      ),
   );
class GradientButton extends StatelessWidget {
 final List(Color) colors:
 final double width:
 final double height;
 final Widget child;
 final GestureTapCallback onTap;
 GradientButton(
      {this. colors, this. width, this. height, this. child, this. onTap});
  @override
 Widget build(BuildContext context) {
    // TODO: implement build
  ThemeData theme = Theme. of(context);
    List<Color> colors =
        colors ?? [theme. primaryColorDark ?? theme. primaryColor];
    return DecoratedBox (
      decoration: BoxDecoration(
        gradient: LinearGradient(colors: colors),
      ),
      child: Material(
        type: MaterialType. transparency,
        child: InkWell(
          splashColor: _colors.last,
          highlightColor: Colors. transparent,
          child: ConstrainedBox(
```

```
constraints: BoxConstraints.tightFor(height: height, width: widt
h),
            child: Center(
              child: Padding(
                padding: const EdgeInsets.all(8.0),
                child: DefaultTextStyle(
                  style: TextStyle(fontWeight: FontWeight. bold),
                  child: child,
                ),
    );
 welcome to flutter
            按钮三
```

```
app 各种控件,文本,按钮,复选框,图片
flutter
  # The following line ensures that the Material Icons font is
  # included with your application, so that you can use the icons in
  # the material Icons class.
 uses-material-design: true
 assets:
   - assets/
import 'package:flutter/material.dart';
import 'package:flutter/gestures.dart';
void main() => runApp(MyApp());
@override
 Widget build(BuildContext context) {
// TODO: implement build
  return new MaterialApp (
     title: "Basic Widget",
      theme: new ThemeData (primaryColor: Colors. blue),
     home: new Scaffold(
       appBar: new AppBar(
         title: new Text ("Basic widget"),
       body: new BasicWidgetList(),
   );
class BasicWidgetList extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
// TODO: implement build
  return Container (
```

```
child: ListView(
        children: <Widget>[
          new WidgetText(),
          new WidgetButton(),
          new WidgetImage(),
          new WidgetSwitchAndCheckbox(),
          new WidgetRadio()
        ],
      ),
    );
//文本组件
class WidgetText extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
// TODO: implement build
  return Container (
        child: Column(children: <Widget>[
      new Text (
        "文本组件" * 10,
        textAlign: TextAlign. start,
        maxLines: 1,
        overflow: TextOverflow. ellipsis,
        textScaleFactor: 2,
        style: TextStyle(
            color: Colors. white,
            fontSize: 7.0,
            background: new Paint ().. color = Colors. blue,
            decoration: TextDecoration. underline),
      ),
      Text.rich(TextSpan(children: [
        TextSpan(
          text: "Red text",
          style: TextStyle(color: Colors. red, fontSize: 25.0),
        ),
        TextSpan(
          text: "Blue text",
```

```
style: TextStyle(color: Colors. blue, fontSize: 25.0),
          recognizer: new TapGestureRecognizer()
            \dots onTap = () {
              debugPrint("blue text clicked");
            },
        ),
      ])),
      DefaultTextStyle(
        style: TextStyle(
          color: Colors. green,
          fontSize: 20.0,
        ),
        textAlign: TextAlign. start,
        child: Column(
          children: <Widget>[
            Text("这个文本例子,是可以向下面滑动的"),
            Text (
              "Anotuer text",
              style: TextStyle(inherit: false, color: Colors. black),
            ),
            Text (
              "My color is not green",
              style: TextStyle(color: Colors. grey),
            ),
          ٦,
    ]));
//按钮组件
class WidgetButton extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
// TODO: implement build
  return Container (
      child: new Center(
        child: Column(
          children: <Widget>[
```

```
new RaisedButton (
                child: Text ("RaiseButton"),
                onPressed: () => {debugPrint("RaisedButton clicked")}),
            new FlatButton (
                child: Text("flatbutton"),
                onPressed: () => {debugPrint("flatbutton clicked")}),
            new IconButton (
                icon: Icon (Icons. phone),
                onPressed: () => {debugPrint("iconbutton click")}),
            new OutlineButton(
                child: Text ("outline button"),
                onPressed: () => {debugPrint("outline button click")}),
            new RaisedButton(
                shape: RoundedRectangleBorder(
                     borderRadius: BorderRadius.circular(10.0)),
                highlightColor: Colors. green,
                child: Text ("Custom button"),
                onPressed: () => {debugPrint("Custom button clicked")})
          ],
      ),
//图片组件
class WidgetImage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
// TODO: implement build
  return Container (
        child: new Column (children: <Widget>[
      new Image. asset ('assets/image.png'),
      new Image. network (
          "http://img.soogif.com/IAR17MrUQMjXyKQruDWOI3ASHiWgAuTK.gif"),
      new FadeInImage. assetNetwork (
          placeholder: 'assets/image.png',
          image: "https://www.baidu.com/img/baidu_jgylogo3.gif"),
      new Icon (Icons. account_circle),
```

```
new Icon (Icons. verified_user, color: Colors. blue),
      new Icon (Icons. android, size: 50.0)
    ]));
//单选框和复选框
class WidgetSwitchAndCheckbox extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
// TODO: implement createState
  return new WidgetSwitchAndCheckboxState();
| class WidgetSwitchAndCheckboxState | extends State < WidgetSwitchAndCheckbox > {
  var switchEnable = false;
  var checkboxSelected = false;
  @override
  Widget build(BuildContext context) {
 // TODO: implement build
  return Column (children: <Widget>[
      new Switch (
        activeColor: Colors. green,
        value: switchEnable,
        onChanged: (value) {
          setState(() {
            switchEnable = value;
          }):
        },
      ),
      new Checkbox (
          activeColor: Colors. black,
          value: checkboxSelected,
          onChanged: (value) {
            setState(() {
              checkboxSelected = value;
```

```
]);
class WidgetRadio extends StatefulWidget {
 @override
 State<StatefulWidget> createState() {
    // TODO: implement createState
  return new WidgetRadioState();
class WidgetRadioState extends State<WidgetRadio> {
 var _groupValue;
 @override
 Widget build(BuildContext context) {
    // TODO: implement build
  return new Row (
      mainAxisAlignment: MainAxisAlignment. center,
      children: <Widget>[
        new Radio (
            activeColor: Colors. red,
            value: "option 1",
            groupValue: _groupValue,
            onChanged: (value) {
              setState(() {
                _groupValue = value;
              });
            }),
        new Radio (
            activeColor: Colors. green,
            value: "option 2",
            groupValue: groupValue,
            onChanged: (value) {
              setState(() {
                _groupValue = value;
```

```
new Radio(
              activeColor: Colors. blue,
              value: "option 3",
              groupValue: _groupValue,
              onChanged: (value) {
                setState(() {
                  _groupValue = value;
                });
              })
       ],
    );
 Basic widget
           Anotuer text
      My color is not green
            RaiseButton
            flatbutton
              .
           outline button
           Custom button
Edittext 输入框
import 'package:flutter/material.dart';
```

```
void main() => runApp(new MyApp());
class MyApp extends StatefulWidget {
  @override
  MyAppState createState() => new MyAppState();
lclass MyAppState extends State<MyApp> {
  GlobalKey<FormState> formGlobalkey = new GlobalKey<FormState>();
  String username;
  void save() {
    var form = formGlobalkey. currentState;
    if (form. validate()) {
      form. save();
    } else {
      form. reset();
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return new Material App (
        title: "Form demo",
        home: new Scaffold(
            appBar: new AppBar(
              title: new Text ("Form demo"),
            body: new Column(children: <Widget>[
              new Form (
                key: formGlobalkey,
                child: new TextFormField(
                  decoration: new InputDecoration(
                    labelText: "姓名",
                  ),
                  validator: (content) {
                    print(content);
```

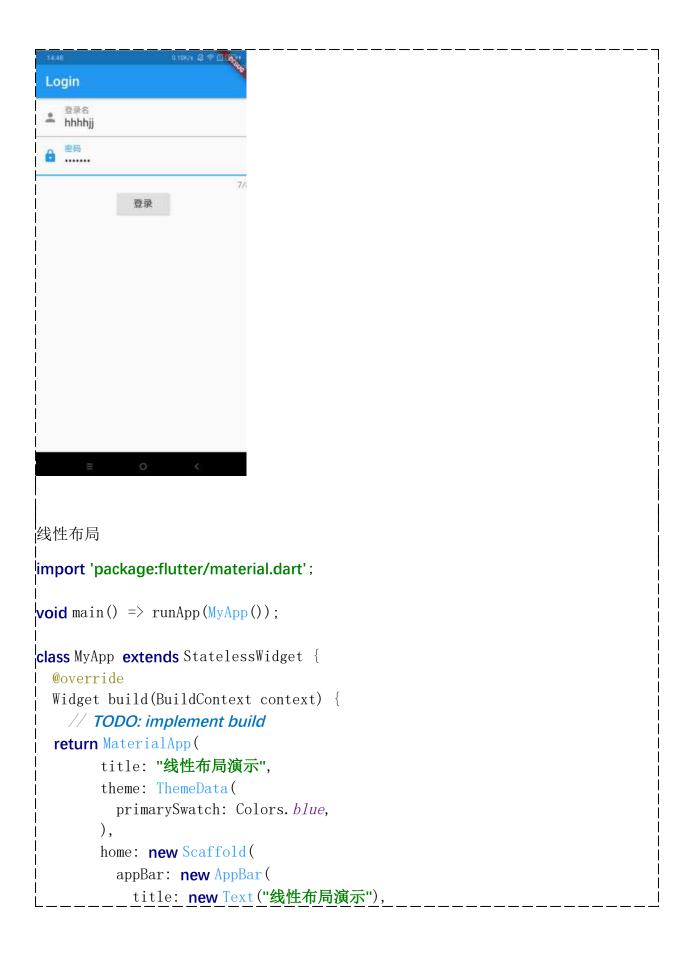
```
onSaved: (content) {
                   username = content;
                 },
               ),
             ),
             new RaisedButton(child: new Text("保存"), onPressed: save)
           ])));
 Form demo
段真的是送外卖的
           保存
    人 吗 是 时候 号 ; 🖸
     分词
           ABC
                 DEF
           JKL
                 MNO
     GHI
 ?
           TUV
                WXYZ
     PQRS
文本和图片 和 button,线性布局
import 'package:flutter/material.dart';
```

```
void main() => runApp (MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    // TODO: implement build
  return new Material App (
      title: "界面布局流程体验",
      home: new Scaffold(
          appBar: new AppBar(
            title: new Text("界面布局流程体验"),
         ),
         body: new Column(
            children: <Widget>[
              new Text ("我是一个文本组件"),
              new RaisedButton (
                  onPressed: () => debugPrint("button click"),
                  child: new Text("我是一个按钮")),
             new Icon (Icons. android)
           ٦,
         )),
   );
用户名和密码 输入框
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
TextEditingController usernameController = TextEditingController();
|TextEditingController passwordController = TextEditingController();
//焦点
FocusNode passwordFocusNode = FocusNode();
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
```

```
@override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
      title: 'flutter demo',
      theme: ThemeData(
       primarySwatch: Colors. blue,
     ),
     home: Scaffold(
       appBar: AppBar(title: Text("Login")),
       body: LoginLayout(),
      ),
   );
class LoginLayout extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement buildreturn
  return Container (
      child: Column(
       children: <Widget>[
         UserNameInputTextField(),
         PasswordInputTextField(),
         LoginButton()
       ],
     ),
   );
@override
  State<StatefulWidget> createState() {
    return UserNameInputTestFieldState();
class UserNameInputTestFieldState extends State<UserNameInputTextField> {
```

```
@override
 Widget build(BuildContext context) {
   // TODO: implement build
  return TextField(
       textInputAction: TextInputAction. next,
       onEditingComplete: () =>
           FocusScope. of (context). requestFocus (passwordFocusNode),
       onChanged: (content) => {debugPrint("UserName input:" + content)},
       autofocus: true,
       controller: usernameController,
       keyboardType: TextInputType. emailAddress,
       decoration: InputDecoration(
           prefixIcon: Icon (Icons. person),
           labelText: "登录名",
           hintText: "在此输入您的手机号或者邮箱号"));
class PasswordInputTextField extends StatefulWidget {
 @override
 State < State ful Widget > create State () {
   // TODO: implement createState
  return PasswordInputTextFieldState();
@override
 Widget build(BuildContext context) {
   return TextField(
       textInputAction: TextInputAction. done,
       onSubmitted: (content) => debugPrint("UserName:" +
           usernameController.text +
           "Password:" +
           passwordController.text),
       focusNode: passwordFocusNode,
       maxLength: 8,
       controller: passwordController,
       obscureText: true,
```

```
maxLengthEnforced: false,
        decoration: InputDecoration(
            prefixIcon: Icon(Icons. lock),
            labelText: "密码",
            hintText: "在此输入登录密码"));
class LoginButton extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
   // TODO: implement build
  return RaisedButton(
        child: Text("登录"),
        onPressed: () {
          debugPrint("Username:" +
              usernameController.text +
              '\n' +
              "Password:" +
              passwordController.text);
       });
```



```
body: new Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: <Widget>[new PartRow(), new PartRow(), new PartRow()],
          ),
        ));
lclass PartRow extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return new Row (
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
          new Icon (Icons. arrow_back),
          new Icon (Icons. arrow_downward),
          new Icon(Icons. arrow upward),
          new Icon (Icons. arrow_forward),
        ]);
```

```
线性布局演示
堆叠布局
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
        title: "堆叠布局演示",
        theme: ThemeData(
          primarySwatch: Colors. blue,
        ),
        home: Scaffold(
            appBar: AppBar(
             title: new Text("堆叠布局演示"),
```

alignment: AlignmentDirectional.center,

),

body: Stack(

```
fit: StackFit. expand,
              children: <Widget>[
                Container(child: null, color: Colors. green),
                Positioned(
                    child: Container(child: null, color: Colors. white),
                    top: 10.0,
                    left: 10.0,
                    bottom: 10.0,
                    right: 10.0),
                Positioned (child: Icon (Icons. home)),
                Positioned(child: Text("我在顶部"), top: 0.0),
                Positioned(child: Text("我在左侧"), left: 0.0),
                Positioned(child: Text("我在底部"), bottom: 20.0),
                Positioned(child: Text("我在右侧"), right: 20.0)
              ],
            )));
 堆疊布局演示
在左侧
         我在底部
等比例分配 weight
import 'package:flutter/material.dart';
```

```
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
        title: "Weight 等比例分配布局",
        theme: ThemeData(
          primarySwatch: Colors. blue,
        ),
        home: new Scaffold(
            appBar: new AppBar(
              title: new Text ("Weight 等比例分配布局"),
            ),
            body: new Flex(
              direction: Axis. vertical,
              children: <Widget>[
                new Expanded (
                    flex: 1,
                    child: new Container (height: 50.0, color: Colors. blue)),
                new Expanded (
                    flex: 3,
                    child: new Container (height: 50.0, color: Colors. green))
              ],
            )));
```

```
Weight等比例分配布局
流式布局
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "",
      theme: ThemeData(
        primarySwatch: Colors. blue,
      ),
      home: new Scaffold(
        appBar: AppBar(
          title: new Text(""),
```

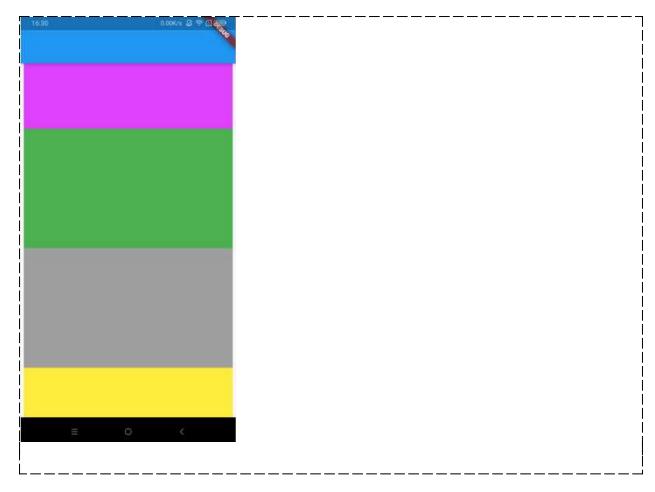
```
body: new Wrap(
          direction: Axis. horizontal,
          alignment: WrapAlignment.start,
          children: <Widget>[
            new Container (
              height: 50.0,
              width: 40.0,
              color: Colors. green,
            new Container (
              height: 50.0,
              width: 50.0,
              color: Colors. lightBlueAccent,
            new Container (
              height: 50.0,
              width: 80.0,
              color: Colors. 1ime,
            ),
         ],
        ),
      ),
容器类组件展示
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "容器类组件演示",
     theme: ThemeData(
```

```
primarySwatch: Colors. blue,
),
home: Scaffold(
  appBar: AppBar(
    title: new Text("容器类组件演示"),
  ),
  body: new Column (
    crossAxisAlignment: CrossAxisAlignment. start,
    children: <Widget>[
      new Text ("内边距 padding 组件"),
      Padding(
        padding: EdgeInsets. all (10.0),
        child: new Icon (Icons. home),
      new Text ("约束组件"),
      new ConstrainedBox(
          constraints: BoxConstraints(minWidth: 50.0, maxHeight: 100.0),
          child: new Column(
            children: <Widget>[
              Container (
                color: Colors. green,
                height: 50.0,
                width: 50.0,
              ),
              Container (
                color: Colors. red,
                width: 50.0,
                height: 50.0,
              ),
              Container (
                color: Colors. blue,
                width: 50.0,
                height: 50.0,
              ),
            ],
          )),
      new Text ("装饰组件"),
      new DecoratedBox (
          position: DecorationPosition. background,
          decoration: BoxDecoration(
```

```
gradient:
                        LinearGradient (colors: [Colors. blue, Colors. green]),
                    borderRadius: BorderRadius.circular(5)),
                child: new Text("我是文本组件 1")),
            new DecoratedBox(
                position: DecorationPosition. foreground,
                decoration: FlutterLogoDecoration(
                    lightColor: Colors. green, darkColor: Colors. red),
                child: new Text("我是文本组件 2")),
            new DecoratedBox (
                position: DecorationPosition. background,
                decoration: ShapeDecoration(
                    shape: Border. all(color: Colors. red, width: 1.0) +
                        Border. all(color: Colors. green, width: 1.0)),
                child: new Text("我是文本组件 3")),
            new DecoratedBox (
                position: DecorationPosition. background,
                decoration: UnderlineTabIndicator(
                    borderSide: BorderSide (color: Colors. red)),
                child: new Text("我是文本组件 4")),
            new Text ("变换组件"),
            new Transform(
                transform: new Matrix4. skewY(0.3), child: new Text("我是文本
组件 5")),
            new Text ("container 容器组件"),
            new Container (
              color: Colors. green,
              margin: EdgeInsets. all(10.0),
              padding: EdgeInsets. all (10.0),
              width: 50,
              height: 50,
              child: new Container (
                color: Colors. blue,
              ),
          ],
        ),
```

```
容器类组件演示
内边距padding组件
约束组件
装饰组件
我是文本组件3
我是文本组件4
变换组件
我是STATEUSE
滚动视图 scrollview
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "",
```

```
theme: ThemeData(primarySwatch: Colors. blue),
home: Scaffold(
  appBar: AppBar(
    title: new Text(""),
  ),
  body: new SingleChildScrollView(
    scrollDirection: Axis. vertical,
    reverse: false,
    padding: EdgeInsets.all(5.0),
    primary: true,
    physics: BouncingScrollPhysics(),
    child: Column(
      children: <Widget>[
        new Container (
          color: Colors. purpleAccent,
          height: 200.0,
        ),
        new Container(
          color: Colors. green,
          height: 200.0,
        ),
        new Container (
          color: Colors. grey,
          height: 200.0,
        ),
        new Container (
          color: Colors. yellow,
          height: 200.0,
 ),
```



listview 线性布局,运行效果和上图一样

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "",
        theme: ThemeData(primarySwatch: Colors. blue),
        home: Scaffold(
            appBar: AppBar(
            title: new Text(""),
        ),
            body: ListView(
```

```
scrollDirection: Axis. vertical,
    reverse: false,
    padding: EdgeInsets.all(5.0),
    primary: true,
    physics: ClampingScrollPhysics(),
    children: <Widget>[
      new Container (
        color: Colors. red,
        height: 200.0,
      ),
      new Container (
        color: Colors. yellow,
        height: 200.0,
      ),
      new Container (
        color: Colors. grey,
        height: 200.0,
      ),
    ],
  ),
),
```

简单的 listview

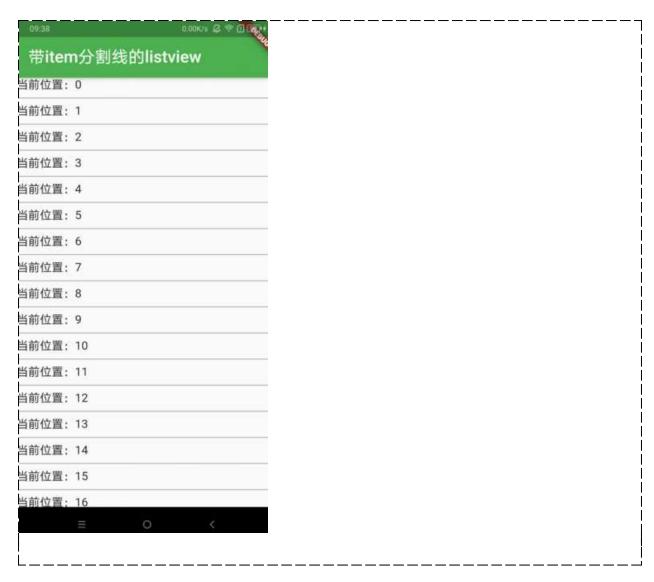
```
title: new Text(""),
),
body: new ListView.builder(
    itemCount: 10,
    itemExtent: 90,
    itemBuilder: (BuildContext context, int index) {
        return new Text("当前位置: $index");
    },
    ),
    ),
    );
}
```



带item分割线的listview

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
```

```
iclass MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "",
      theme: ThemeData(primarySwatch: Colors. red),
      home: Scaffold(
        appBar: AppBar(
          title: new Text(""),
        body: new ListView. separated(
          itemBuilder: (BuildContext context, int index) {
            return new Text ("当前位置: $index");
          },
          separatorBuilder: (BuildContext context, int index) {
            return new Divider(color: Colors. black);
          itemCount: 20,
       ),
    );
```



自定义 listview

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "自定义listview",
        theme: ThemeData(primarySwatch: Colors. purple),
        home: Scaffold(
```

```
appBar: AppBar(
          title: new Text("自定义 listview"),
        ),
        body: new ListView.custom(
          childrenDelegate:
              new CustomChildrenDelegate((BuildContext context, int index) {
            return new Text ("当前位置: $index");
          }, childCount: 50),
          itemExtent: 30.0,
          cacheExtent: 0.0,
        ),
    );
class CustomChildrenDelegate extends SliverChildBuilderDelegate {
  CustomChildrenDelegate(
    Widget Function (BuildContext, int) builder, {
    int childCount,
    bool addAutomaticKeepAlive = true,
  }) : super(
          builder,
          childCount: childCount,
          addAutomaticKeepAlives: addAutomaticKeepAlive,
        );
  @override
  void didFinishLayout(int firstIndex, int lastIndex) {
    // TODO: implement didFinishLayout
  super. didFinishLayout(firstIndex, lastIndex);
    debugPrint("Finish! start at $firstIndex,end at $lastIndex");
```

```
自定义listview
与前位置: 0
与前位置: 1
与前位置: 2
与前位置: 3
与前位置: 4
与前位置: 5
与前位置: 6
与前位置: 7
与前位置: 8
与前位置: 8
与前位置: 11
与前位置: 11
与前位置: 12
与前位置: 12
与前位置: 13
与前位置: 14
与前位置: 15
当前位置: 15
```

GridView

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
      title: "GridView",
      theme: ThemeData (primarySwatch: Colors. red),
      home: Scaffold(
        appBar: AppBar(
          title: new Text ("GridView"),
        ),
        body: new GridView(
          gridDelegate:
              SliverGridDelegateWithFixedCrossAxisCount(crossAxisCount: 3),
          children: <Widget>[
            new Icon (Icons. add),
```

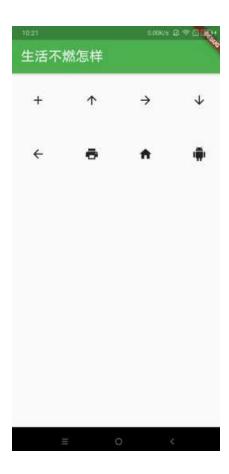
```
new Icon(Icons. arrow_upward),
    new Icon(Icons. arrow_forward),
    new Icon(Icons. arrow_downward),
    new Icon(Icons. arrow_back),
    new Icon(Icons. print),
    new Icon(Icons. home),
    new Icon(Icons. android),
    ],
    ),
    ));
}
```



gridview

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
```

```
@override
Widget build(BuildContext context) {
  // TODO: implement build
return Material App (
    title: "生活不燃怎样",
    theme: ThemeData(primarySwatch: Colors. green),
    home: Scaffold(
      appBar: AppBar(
        title: new Text("生活不燃怎样"),
      ),
      body: new GridView(
        gridDelegate: SliverGridDelegateWithMaxCrossAxisExtent(
            maxCrossAxisExtent: 100.0),
        children: <Widget>[
          new Icon (Icons. add),
          new Icon (Icons. arrow upward),
          new Icon (Icons. arrow forward),
          new Icon (Icons. arrow downward),
          new Icon (Icons. arrow back),
          new Icon (Icons. print),
          new Icon (Icons. home),
          new Icon (Icons. android),
        ],
   ),
  );
```



listview和 gridview混合布局

```
import 'package:flutter/material.dart';

void main() => runApp(new MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "",
        theme: ThemeData(primarySwatch: Colors. pink),
        home: Scaffold(
            appBar: AppBar(
            title: Text(""),
        ),
            body: CustomScrollView(
```

```
slivers: <Widget>[
        SliverPadding(
          padding: const EdgeInsets. all (8.0),
          sliver: SliverGrid(
            gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
                crossAxisCount: 3, childAspectRatio: 3.0),
            delegate: SliverChildBuilderDelegate(
               (BuildContext context, int index) {
                return new Container (
                   child: new Icon(IconData(0xe145 + index,
                       fontFamily: 'MaterialIcons')),
                );
              },
              childCount: 12,
            ),
          ),
        ),
        SliverFixedExtentList(
            delegate: SliverChildBuilderDelegate(
                 (BuildContext context, int index) {
              return new Text ("当前位置: $index");
            }, childCount: 50),
            itemExtent: 30.0)
      ],
    ),
  ),
);
```



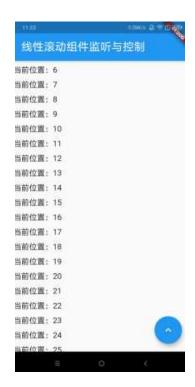
滚动视图回到顶部

```
| woid main() => runApp(new MyApp());

| class MyApp extends StatelessWidget {
| @override |
| Widget build(BuildContext context) {
| // TODO: implement build |
| return MaterialApp( |
| title: "线性滚动组件监听与控制",
| theme: ThemeData(primarySwatch: Colors. blue),
| home: new ListViewController(),
| );
| }
```

```
class ListViewController extends StatefulWidget {
  @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
  return new ListControllerState();
class ListControllerState extends State < ListViewController > {
 ScrollController scrollController = new ScrollController();
 var isShowBackToTopBtn = false;
 //instate 方法 做监听
  @override
 void initState() {
    // TODO: implement initState
  super. initState();
    scrollController. addListener(() {
      debugPrint ("yubkj: "+scrollController. offset. toString());
      if (scrollController. offset < 30 && isShowBackToTopBtn) {
        setState(() {
          isShowBackToTopBtn = !isShowBackToTopBtn;
        }):
      } else if (scrollController. offset >= 30 && !isShowBackToTopBtn) {
        setState(() {
          isShowBackToTopBtn = !isShowBackToTopBtn;
        });
   });
  @override
 Widget build(BuildContext context) {
    // TODO: implement build
  return new Scaffold(
      floatingActionButton: isShowBackToTopBtn
     ? new FloatingActionButton(
              onPressed: (() {
                scrollController. animateTo (0.0,
```

```
duration: Duration(milliseconds: 100),
                curve: Curves. linear);
          }),
          child: Icon(Icons. keyboard_arrow_up),
      : null,
  appBar: new AppBar(
    title: new Text ("线性滚动组件监听与控制"),
  ),
  body: new ListView. builder(
      itemCount: 50,
      itemExtent: 30,
      controller: scrollController,
      itemBuilder: (BuildContext context, int index) {
        return new Text ("当前位置: $index");
      },),
);
```



```
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "再按一次退出程序",
      theme: ThemeData (primarySwatch: Colors. green),
      home: new MyHomePage(),
    );
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return MyHomePageState();
class MyHomePageState extends State<MyHomePage> {
  int counter = 0;
  void incrementCounter() {
    setState(() {
      counter++;
```

```
@override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Scaffold(
      appBar: AppBar(
        title: new Text("再按一次退出程序"),
      ),
      body: Center(
        child: Column(
          mainAxisSize: MainAxisSize. max,
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text(
              'you hava pushed the button this many times:',
            ),
            Text(
              '$ counter',
              style: Theme. of(context). textTheme. display1,
            ),
            WillPopScopetestRoute()
          ],
        ),
      ),
      floatingActionButton: FloatingActionButton(
        onPressed: incrementCounter,
        tooltip: 'Increment',
        child: Icon (Icons. add),
      ),
    ):
|class WillPopScopetestRoute extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return WillPopScopetestRouteState();
```

```
| class WillPopScopetestRouteState | extends State < WillPopScopetestRoute > {
  var lastPressedTime;
  var needShow = false;
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return new WillPopScope (
      onWillPop: () {
        if (lastPressedTime == null ||
            DateTime. now(). difference (lastPressedTime) > Duration (seconds: 1))
          lastPressedTime = DateTime. now();
          setState(() {
            needShow = true;
          });
          new Future. delayed (
              Duration (seconds: 1),
               () => setState(() {
                     needShow = false;
                   }));
          return Future. value (false);
        return Future. value (true);
      },
      child: new Text (needShow? "再次点击返回键退出": ""),
    );
```



组件之间的数据传递

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "组件间的图片数据传递",
        theme: ThemeData(primarySwatch: Colors. red),
        home: new Scaffold(
            appBar: AppBar(
                title: Text("组件间的图片数据传递"),
            ),
            ),
```

```
body: new ShareDataWidget(
          color: Colors. blue,
          child: new Center(
            child: new Column (
              children: <Widget>[
                new IconList(Icons. arrow_upward),
                new IconList (Icons. arrow forward),
                new IconList (Icons. arrow downward),
                new IconList (Icons. arrow_back),
              ],
            ),
     ),
),
class IconList extends StatefulWidget {
 final IconData icon;
  IconList(this.icon);
 @override
 State < State ful Widget > create State () {
    // TODO: implement createState
  return new IconListState(icon);
class IconListState extends State<IconList> {
 var icon;
  IconListState(this.icon);
 @override
 Widget build(BuildContext context) {
    // TODO: implement build
  return new Icon (icon, color: ShareDataWidget. of(context). color);
 @override
 void didChangeDependencies() {
    // TODO: implement didChangeDependencies
  super. didChangeDependencies();
```

```
class ShareDataWidget extends InheritedWidget {
    final Color color;
    ShareDataWidget({this.color, Widget child}) : super(child: child);

    static ShareDataWidget of(BuildContext context) {
        return context.inheritFromWidgetOfExactType(ShareDataWidget);
    }

    @override
    bool updateShouldNotify(ShareDataWidget oldWidget) {
        // TODO: implement updateShouldNotify
    return oldWidget.color!= color;
    }
}
```



事件监听, 手势动作, 抬起, 放下, 移动

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
      title: "",
      theme: ThemeData(primarySwatch: Colors. pink),
      home: Scaffold(
        appBar: AppBar(
          title: new Text (""),
        ),
        body: new Listener(
          child: new Container (
            width: double. infinity,
            height: double. infinity,
            color: Colors. green,
          ),
          onPointerDown: (event) => debugPrint("按下: $event"),
          onPointerMove: (event) => debugPrint("移动: $event"),
          onPointerUp: (event) => debugPrint("抬起: $event"),
        ),
      ),
    );
```

事件监听,单击 双击 长按

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
```

```
// TODO: implement build
return Material App (
   title: "",
   theme: ThemeData(primarySwatch: Colors. 1ime),
   home: Scaffold(
     appBar: AppBar(
       title: new Text(""),
     ),
     body: new GestureDetector(
        child: new Container(
            width: double. infinity,
           height: double. infinity,
            color: Colors. green),
        onTap: () => debugPrint("手势单击"),
        onDoubleTap: () => debugPrint("手势双击"),
        onLongPress: () => debugPrint("手势长按"),
     ),
   ),
 );
```

滑动手势

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "",
        theme: ThemeData(primarySwatch: Colors. blue),
        home: Scaffold(
            appBar: AppBar(
                title: new Text(""),
            ),
```

```
body: GestureDetector(
    child: Container(
    width: double. infinity,
    height: double. infinity,
    color: Colors. green,
    ),
    onPanDown: (DragDownDetails dragDownDetails) =>
        debugPrint("手势: 滑动按下: ${dragDownDetails. globalPosition}"),
    onPanUpdate: (DragUpdateDetails dragDownDetails) => debugPrint(
    "手势: 滑动中,当前位置: ${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.delta.dx}-${dragDownDetails.del
```

手势缩放监听

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "",
        theme: ThemeData(primarySwatch: Colors. teal),
        home: Scaffold(
            appBar: AppBar(
                title: new Text(""),
        ),
        body: new GestureDetector(
            child: new Container(
```

```
width: double. infinity,
height: double. infinity,
color: Colors. green,
),
onScaleStart: (details) => debugPrint("手势缩放开始: ${details.toString()}"),
onScaleUpdate: (details) => debugPrint("手势缩放中: ${details.scale}"),
onScaleEnd: (details) => debugPrint("手势缩放结束: ${details.toString()}"),
),
),
),
),
),
),
),
),
),
```

通知

```
import 'dart:math';
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
lclass MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
      title: "",
      theme: ThemeData(primarySwatch: Colors. pink),
      home: Scaffold(
        appBar: AppBar(
          title: new Text(""),
        ),
        body: new GestureDetector(
          child: new PlusNumWidget(),
        ),
```

```
);
class PlusNumWidget extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return PlusNumWidgetState();
class PlusNumWidgetState extends State<PlusNumWidget> {
  int numA;
  int numB;
  int result:
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return NotificationListener (CustomNotification) (
      onNotification: (notification) {
        setState(() {
          numA = notification. numA;
          numB = notification. numB;
          result = numA + numB;
       });
      },
      child: Center(
        child: Column(
          children: <Widget>[
            new Text ("$numA+$numB = $result"),
            new Builder(builder: (context) {
              return new RaisedButton (
                child: Text("计算"),
                onPressed: () {
                  CustomNotification(
                          new Random(). nextInt(100), new Random(). nextInt(10
```

更换主题颜色-eventbus

```
import 'package:flutter/material.dart';
import 'package:event_bus/event_bus.dart';
import 'dart:math';

EventBus eventBus;
var themeColor;

final List<Color> themeColorList = [
    Colors. red,
    Colors. orange,
    Colors. oyange,
    Colors. yellow,
    Colors. green,
    Colors. cyan,
    Colors. blue,
    Colors. purple,
];

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
```

```
@override
  Widget build(BuildContext context) {
    // TODO: implement build
  return RainbowTheme();
class RainbowTheme extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return RainbowThemeState();
class RainbowThemeState extends State < RainbowTheme > {
  @override
  void initState() {
    // TODO: implement initState
  super. initState();
    eventBus = new EventBus();
    themeColor = themeColorList[0];
    eventBus
        .on<ChangeThemeEvent>()
        .listen((ChangeThemeEvent onData) => setState(() {
              themeColor = themeColorList[onData.themeIndex];
            }));
  }
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
      title: "",
      theme: ThemeData(
        primarySwatch: themeColor,
      ),
      home: new Scaffold(
        appBar: AppBar(
```

```
title: new Text("更换主题颜色"),
),
body: new RaisedButton(
    child: new Text("更换主题颜色按钮"),
    onPressed: () =>
        eventBus. fire(new ChangeThemeEvent(new Random().nextInt(7))),
    ),
    ),
    );
}

class ChangeThemeEvent {
    var themeIndex;

ChangeThemeEvent(this.themeIndex);
}
```

缩放动画

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
      title: "缩放动画",
      theme: ThemeData(primarySwatch: Colors. red),
      home: Scaffold(
        appBar: AppBar(
          title: new Text("缩放动画"),
        ),
        body: new SmallToBigLogo(),
      ),
    );
```

```
class SmallToBigLogo extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return new SmallToBigLogoState();
|class|| SmallToBigLogoState | extends|| State < SmallToBigLogo >
    with SingleTickerProviderStateMixin {
  Animation <double> animation:
  AnimationController controller:
  AnimationStatus animationStatus;
  double animationValue;
  @override
  void initState() {
    // TODO: implement initState
  super. initState();
    controller =
        AnimationController (duration: const Duration (seconds: 1), vsync: this);
    animation = Tween \( \)double \( \) (begin: 0, end: 150). animate (controller)
      ..addListener(() {
        setState(() {
          animationValue = animation. value:
        });
      })
      ..addStatusListener((status) {
        setState(() {
          animationStatus = status;
        });
      });
  @override
  Widget build(BuildContext context) {
   // TODO: implement build
```

```
return Container (
    width: double. infinity,
    height: double. infinity,
    child: Column(
      children: <Widget>[
        new RaisedButton(
          onPressed: () {
            controller. reset();
            controller. forward();
          child: new Text ("缩放变大"),
        ),
        Container (
          height: animation. value,
          width: animation. value,
          child: FlutterLogo(),
      ],
    ),
 );
@override
void dispose() {
  // TODO: implement dispose
// 停止所有活动的动画
  super. dispose();
 controller. dispose();
```



自定义图片缩放

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "",
      theme: ThemeData(primarySwatch: Colors. green),
      home: new HeroAnimationRoute(),
    );
class HeroAnimationRoute extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Container(
      alignment: Alignment. topCenter,
      child: Scaffold(
        appBar: AppBar(
          title: new Text(""),
```

```
body: InkWell(
          child: Hero(
            tag: "title",
            child: Image. asset (
              "assets/image.png",
              width: 80.0,
            ),
          ),
          onTap: () {
            Navigator. push(context, PageRouteBuilder(pageBuilder:
                 (BuildContext context, Animation animation,
                    Animation secondarynimation) {
              return new FadeTransition(
                opacity: animation,
                child: Scaffold(
                  appBar: new AppBar(
                    title: new Text(""),
                  ),
                  body: HeroAnimationRouteB(),
                ),
              );
            }));
class HeroAnimationRouteB extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    // TODO: implement build
  return Hero(tag: "title", child: Image.asset("assets/image.png"));
```



交错动画

```
import 'package:flutter/material.dart';
import 'dart:math';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "交错动画",
      theme: ThemeData(primarySwatch: Colors. green),
      home: Scaffold(
        appBar: AppBar(
          title: new Text("交错动画"),
        body: new StaggeredDemo(),
      ),
    );
```

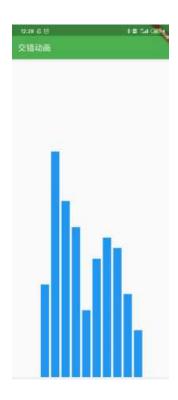
```
@override
  State < State ful Widget > create State () {
    // TODO: implement createState
  return StaggeredDemoState();
class StaggeredDemoState extends State < StaggeredDemo>
    with TickerProviderStateMixin {
  AnimationController controller;
  @override
  void initState() {
    // TODO: implement initState
  super. initState();
    controller = AnimationController(
        duration: const Duration (milliseconds: 500), vsync: this);
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  List<Widget> widgets = new List();
    for (var i = 0; i < 10; i++) {
      widgets. add (new StaggeredAnimation (
        controller: _controller,
      ));
      widgets. add (new Container (
        width: 5.0,
      ));
    return GestureDetector (
      behavior: HitTestBehavior. opaque,
      onTap: () {
       _controller. reset();
        controller. forward();
```

```
child: new Row(
        mainAxisAlignment: MainAxisAlignment. center,
        children: widgets,
    );
class StaggeredAnimation extends StatelessWidget {
  final Animation \( double \) controller;
  Animation <double > height;
  Animation (Color) color:
  StaggeredAnimation({this.controller, Key key}) : super(key: key) {
    height = Tween < double > (
      begin: 0.0,
      end: new Random(). nextInt (500) + 100 * 1.0,
    ).animate(
      CurvedAnimation(
        parent: controller,
        curve: Curves. ease,
      ),
    );
    color = ColorTween (begin: Colors. white, end: Colors. blue). animate(
      CurvedAnimation(
        parent: controller,
        curve: Interval (0.0, 0.8, curve: Curves. ease),
      ),
    );
  Widget buildAnimation(BuildContext context, Widget child) {
    return Container (
      alignment: Alignment. bottomCenter,
      child: Container(
        alignment: Alignment. bottomCenter,
        child: Container(
          color: color. value,
          width: 20.0, ______
```

```
height: height.value,
),
),
);
}

@override
Widget build(BuildContext context) {
// TODO: implement build
return AnimatedBuilder(animation: controller, builder: _buildAnimation);
}

}
```



不同风格样式的按钮标题栏

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
```

```
lclass MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Material App (
      title: "",
      theme: ThemeData(
        primarySwatch: Colors. pink,
        accentColor: Colors. red,
        fontFamily: "TEST",
      ),
      home: new MyHomePage(),
    );
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return MyHomePageState();
class MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
 void _incrementCounter() {
    setState(() {
      counter++;
    });
  @override
  Widget build(BuildContext context) {
```

```
// TODO: implement build
return Scaffold(
   appBar: AppBar(
      title: new Text(""),
   ),
   body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
          Text ('you hava pushed the button this many times'),
          Text(
            '$_counter',
            style: Theme. of(context). textTheme. display1,
          ),
        ],
      ),
   ),
   floatingActionButton: FloatingActionButton(
      onPressed: _incrementCounter,
      tooltip: 'Increment',
      child: Icon (Icons. add),
   ),
 );
```



页面跳转和数据传递

main:

```
import 'package:flutter/material.dart';
import 'page_2.dart';
import 'page_3.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "页面跳转和数据传递",
        theme: ThemeData(primarySwatch: Colors. green),
        home: new MyHomePage(
            title: "页面跳转和数据传递",
        ),
        routes: {"page_2": (BuildContext context) => new Page2()},
        );
```

```
class MyHomePage extends StatefulWidget {
  final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
   // TODO: implement createState
  return MyHomePageState();
int _counter = 0;
  void _incrementCounter() {
    setState(() {
     _counter++;
   });
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return Scaffold(
      appBar: AppBar(
       title: new Text("页面跳转和数据传递"),
     ),
     body: Center(
       child: Column(
         mainAxisAlignment: MainAxisAlignment.center,
         children: <Widget>[
           Text ('you have pushed the button this many times'),
           Text(
             '$ counter',
             style: Theme. of(context). textTheme. display1,
```

```
RaisedButton(
          child: Text("跳转到页面二"),
          onPressed: () {
            Navigator. pushNamed(context, "page 2");
          },
        ),
        RaisedButton(
          child: Text("跳转到页面三"),
          onPressed: () {
            Navigator. push<int>(context,
                new MaterialPageRoute(builder: (BuildContext context) {
              return new Page3 (counter);
            })).then((int backData) {
              setState(() {
                if (backData != null) {
                  counter = backData;
              });
            });
      ],
    ),
  ),
  floatingActionButton: FloatingActionButton(
    onPressed: _incrementCounter,
    tooltip: 'Increment',
    child: Icon (Icons. add),
  ),
);
```

page2:

```
import 'package:flutter/material.dart';
class Page2 extends StatelessWidget {
@override
```

```
Widget build(BuildContext context) {
  // TODO: implement build
return Material App (
    title: "页面二",
    theme: ThemeData(primarySwatch: Colors. red),
    home: Scaffold(
      appBar: AppBar(
        title: new Text("页面二"),
      ),
      body: Center(
        child: RaisedButton(
          onPressed: () => Navigator. pop(context, null),
          child: new Text ("返回"),
        ),
      ),
    ),
  );
```

page3:

```
import 'package:flutter/material.dart';

class Page3 extends StatelessWidget {
    var currentNum;

Page3(this. currentNum);

coverride

Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
        title: "页面三",
        theme: ThemeData(primarySwatch: Colors. orange),
        home: Scaffold(
            appBar: AppBar(
                title: new Text("页面三"),
            ),

}
```

文件存储和文件读取

```
import 'dart:io';
limport 'dart:async';
import 'package:flutter/material.dart';
import 'package:path_provider/path_provider.dart';
void main() => runApp(new MaterialApp(
      title: "文件读写",
      theme: ThemeData(primarySwatch: Colors. pink),
      home: new FileRWDemo(),
    ));
class FileRWDemo extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return FileRWDemoState();
lclass FileRWDemoState extends State<FileRWDemo> {
  int counter;
```

```
Future<File> _getLocalFile() async {
  String dir = (await getApplicationDocumentsDirectory()). path;
  debugPrint("$dir/counter.dat");
  return new File ("$dir/counter.dat");
Future<int> _readCounter() async {
  try {
    File file = await _getLocalFile();
    String contents = await file.readAsString();
    return int. parse(contents);
  } on FileSystemException {
    return 0;
Future<Null> _incrementCounter() async {
  setState(() {
    _counter++;
  });
  await (await _getLocalFile()).writeAsString('$_counter');
@override
void initState() {
  // TODO: implement initState
super. initState();
  _readCounter().then((int value) {
    setState(() {
      _counter = value;
   });
  });
@override
Widget build(BuildContext context) {
 // TODO: implement build
return new Scaffold(
```

```
appBar: AppBar(
    title: new Text("文件读写"),
),
body: new Text("接钮点击次数: $_counter"),
floatingActionButton: new FloatingActionButton(
    onPressed: _incrementCounter,
    child: new Icon(Icons. add),
    tooltip: "Increment",
    ),
);
}
```

网络请求

```
import 'dart:io';
import 'dart:convert';
import 'package:flutter/material.dart';
import 'WeatherResp.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
  return MaterialApp(
      title: "北京天气",
      theme: ThemeData(primarySwatch: Colors. pink),
      home: new WeatherInfo(title: "北京天气",),
    );
class WeatherInfo extends StatefulWidget {
  final String title;
  WeatherInfo({Key key, this.title}) : super(key: key);
```

```
@override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return new WeatherInfoState();
| class | WeatherInfoState | extends | State | WeatherInfo | {
  bool isLoading = false;
  WeatherData weatherData;
  refresh() async {
    if (!isLoading) {
      isLoading = true;
      try {
        HttpClient httpClient = new HttpClient();
        HttpClientRequest request = await httpClient.getUrl(Uri.parse(
             "http://t.weather.sojson.com/api/weather/city/101010100"));
        HttpClientResponse response = await request. close();
        String responseContent = await response. transform(utf8. decoder). join
i();
        setState(() {
          debugPrint(responseContent);
          this. weatherData = WeatherData. fromJson(json. decode (responseConten
lt));
        });
        httpClient.close();
      } catch (e) {
        debugPrint("请求失败:$e");
      } finally {
        setState(() {
          isLoading = false;
        });
    } else {
      debugPrint("正在刷新");
```

```
Column buildBaseInfo(weatherData) {
  List<Widget> widgets = new List();
  widgets.add(Text("获取时间: ${weatherData.time}"));
  widgets.add(Text("省: ${weatherData.cityInfo.parent}"));
  widgets.add(Text("市: ${weatherData.cityInfo.city}"));
  widgets.add(Text("更新时间: ${weatherData.cityInfo.updateTime}"));
  return Column (
    crossAxisAlignment: CrossAxisAlignment. start,
    children: widgets,
 );
}
Column buildCurrent (weatherData) {
  List<Widget> widgets = new List();
  widgets.add(Text("湿度: ${weatherData.data.shidu}"));
  widgets. add (Text ("PM2.5: ${weatherData. data. pm25}"));
  widgets.add(Text("PM10: ${weatherData.data.pm10}"));
  widgets.add(Text("空气质量: ${weatherData.data.quality}"));
  widgets.add(Text("气温: ${weatherData.data.wendu}"));
  widgets.add(Text("感冒指数: ${weatherData.data.ganmao}"));
  return Column (
    crossAxisAlignment: CrossAxisAlignment. start,
    children: widgets,
  );
}
Column buildYesterday (weatherData) {
  List<Widget> widgets = new List();
  widgets.add(Text("昨日日出: ${weatherData.data.yesterday.sunrise}"));
  widgets.add(Text("昨日日落: ${weatherData.data.yesterday.sunset}"));
  widgets.add(Text("昨日最高温: ${weatherData.data.yesterday.high}"));
  widgets.add(Text("昨日最低温: ${weatherData.data.yesterday.low}"));
  widgets. add (Text ("昨日风向: ${weatherData. data. yesterday. fx}"));
  widgets.add(Text("昨日风力: ${weatherData.data.yesterday.fl}"));
  widgets.add(Text("昨日天气: ${weatherData.data.yesterday.type}"));
  widgets.add(Text("昨日提醒: ${weatherData.data.yesterday.notice}"));
  return Column (
    crossAxisAlignment: CrossAxisAlignment. start,
   children: widgets,
```

```
);
  Column buildForecast (weatherData) {
    List<Widget> widgets = new List();
    for (var i = 0; i < weatherData.data.foreCast.foreCastItems.length; i++) {
      widgets
          .add(Text("日期: ${weatherData.data.foreCast.foreCastItems[i].dat
e}"));
      widgets.add(
          Text("日出: ${weatherData.data.foreCast.foreCastItems[i].sunrise}"));
      widgets
          .add(Text("日落: ${weatherData.data.foreCast.foreCastItems[i].sunse
t}"));
      widgets
          .add(Text("最高温: ${weatherData.data.foreCast.foreCastItems[i].hig
h}"));
      widgets
          .add(Text("最低温: ${weatherData.data.foreCast.foreCastItems[i].lo
w}"));
      widgets.add(Text("风向: ${weatherData.data.foreCast.foreCastItems[i].f
(" {<sub>X</sub>}
      widgets.add(Text("风力: ${weatherData.data.foreCast.foreCastItems[i].f
1}"));
      widgets
          .add(Text("天气: ${weatherData.data.foreCast.foreCastItems[i].typ
le}"));
    return Column (
      crossAxisAlignment: CrossAxisAlignment. start,
      children: widgets,
    );
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text (widget. title),
```

```
body: ListView(
        children: <Widget>[
         Text (weatherData == null? "":"【基本信息】", style: new TextStyle(c
olor: Colors. red)),
         weatherData == null ? Text("") : buildBaseInfo(weatherData),
         Text (weatherData == null? "":"【当前天气】", style: new TextStyle(c
olor: Colors. red)),
         weatherData == null ? Text("") : buildCurrent(weatherData),
         Text (weatherData == null? "":"【昨日天气】", style: new TextStyle(c
bloor: Colors. red)),
          weatherData == null ? Text("") : buildYesterday(weatherData),
          Text (weatherData == null? "":"【未来预报】", style: new TextStyle(c
olor: Colors.red)),
         weatherData == null ? Text("") : buildForecast(weatherData),
       ],
     ),
      floatingActionButton: FloatingActionButton(
        onPressed: refresh,
        tooltip: "刷新天气",
        child: Icon (Icons. refresh),
      ),
    );
```

SharedPreference 共享参数

```
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
    return MaterialApp(
        title: "",
```

```
theme: ThemeData(primarySwatch: Colors. red),
      home: new MyHomePage(title: "配置参数保存"),
    );
Iclass MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({this.title, Key key}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
  return MyHomePageState();
class MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
  Future < Shared Preferences > get Shared Preferences () async {
    return await SharedPreferences. getInstance();
  @override
  void initState() {
    // TODO: implement initState
  super. initState();
    getSharedPreferences().then((SharedPreferences prefs) {
      int counter =
          prefs. getInt('counter') == null ? 0 : prefs. getInt('counter');
      setState(() {
        _counter = counter;
      });
    });
  void _incrementCounter() async {
```

```
SharedPreferences prefs = await SharedPreferences. getInstance();
  int counter = (prefs. getInt('counter') ?? 0) + 1;
  await prefs. setInt('counter', counter);
  setState(() {
    _counter++;
  });
@override
Widget build(BuildContext context) {
  // TODO: implement build
return Scaffold(
    appBar: AppBar(
      title: new Text(""),
    ),
    body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment. center,
        children: <Widget>[
          Text(
            'you have pushed the button this many times',
          ),
          Text(
            '$ counter',
            style: Theme. of(context). textTheme. display1,
          ),
        ],
      ),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: incrementCounter,
      tooltip: 'Increment',
      child: Icon (Icons. add),
    ),
  );
```

geolocator 获取经纬度, 当前位置

添加引用:

```
import 'package:geolocator/geolocator.dart';
import 'package:flutter/material.dart';
void main() => runApp(new MyApp());
class MyApp extends StatelessWidget {
  @override
 Widget build(BuildContext context) {
    return new MaterialApp(
      title: "数据库的使用",
      theme: new ThemeData(
        primarySwatch: Colors.blue,
      home: new MyHomePage(title: "Geolocator",),
    );
  }
lclass MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
 @override
```

```
State<StatefulWidget> createState() {
   // TODO: implement createState
   return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  String locationInfo = "点击定位按钮开始定位";
  getLocation() async {
   setState(() {
     locationInfo = "正在定位\n";
    });
   Geolocator geolocator = new Geolocator();
   geolocator.forceAndroidLocationManager = true;
   Position position = await geolocator.getCurrentPosition();
    setState(() {
     locationInfo += "当前位置: ${position.latitude}-${position.longit
ude}\n";
   });
    setState(() {
     locationInfo += "根据经纬度计算距离\n";
    });
   double _distanceInMeters = await Geolocator().distanceBetween(
        39.9077798469, 116.3912285961, 39.9177397478, 116.3970290499);
    setState(() {
     locationInfo += "天安门到故宫距离: $_distanceInMeters 米";
   debugPrint("当前位置: ${position.latitude}-${position.longitude}");
  }
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
   return Scaffold(
     appBar: AppBar(
       title: new Text(""),
      ),
     body: Center(
```

```
child: Text(locationInfo),
),
floatingActionButton: FloatingActionButton(
    onPressed: getLocation,
    tooltip: "获取当前位置",
    child: Icon(Icons.add_Location),
    ),
);
}

在高德坐标工具里面,显示会存在一点偏移,是坐标系转换导致的
```



拍照和图片展示

```
image_picker: ^0.6.0+4
```

```
import 'package:flutter/material.dart';
import 'package:image_picker/image_picker.dart';
```

```
import 'dart:io';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
      title: "",
      theme: ThemeData(primarySwatch: Colors.green),
      home: new _MyHomePage(),
    );
  }
class MyHomePage extends StatefulWidget {
 @override
  State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State< MyHomePage> {
  File _image;
  Future getImage() async {
    var image = await ImagePicker.pickImage(source: ImageSource.camer
a);
    setState(() {
      _image = image;
    });
  }
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return new Scaffold(
      appBar: AppBar(
```

```
title: new Text(""),
),
body: new Center(
child: _image == null ? new Text('没有可显示的照片'): new Image.
file(_image),
),
floatingActionButton: new FloatingActionButton(
onPressed: getImage,
tooltip: "",
child: new Icon(Icons.photo_camera),
),
);
}
```



TabLayout

```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/rendering.dart';
```

```
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
 // This widget is the root of your application.
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        primarySwatch: Colors.red,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      ),
      home: MyHomePage(title: 'BARBOT : le robot pompier'),
   );
 }
class MyHomePage extends StatefulWidget {
 MyHomePage({Key key, this.title}) : super(key: key);
 final String title;
 @override
  _MyHomePageState createState() => _MyHomePageState();
class _MyHomePageState extends State<MyHomePage> {
 get child => null;
 @override
 void initState() {
    super.initState();
  }
  showAlertDialog(BuildContext context) {
   // set up the AlertDialog
   AlertDialog alert = AlertDialog(
```

```
title: Text("Bluetooth"),
      content: Text("Connexion"),
      actions: [
        FlatButton(
          child: Text('Ok'),
          onPressed: () {
            Navigator.of(context).pop();
          },
        ),
      ]);
  // show the dialog
  showDialog(
    context: context,
    builder: (BuildContext context) {
      return alert;
    },
  );
}
String _currentAddress;
@override
Widget build(BuildContext context) {
  return MaterialApp(
    home: DefaultTabController(
      length: 3,
      child: Scaffold(
        appBar: AppBar(
          backgroundColor: Colors.red,
          bottom: TabBar(
            tabs: [
              Tab(icon: Icon(Icons.bluetooth)),
              Tab(icon: Icon(Icons.home)),
              Tab(icon: Icon(Icons.settings_remote)),
            ],
            unselectedLabelColor: Colors.black38,
            indicatorColor: Colors.white,
          ),
          title: Text('Barbot : Le robot pompier'),
```

```
body: TabBarView(
            children: [
              Center(
                child: SizedBox(
                  width: 150.0,
                  height: 150.0,
                  child: FloatingActionButton(
                    onPressed: null,
                    child: Center(
                      child: Text(
                         "Connection Bluetooth",
                         textAlign: TextAlign.center,
                       ),
                    ),
                  ),
                ),
              ),
              Column(
                  mainAxisAlignment: MainAxisAlignment.center,
                  crossAxisAlignment: CrossAxisAlignment.center,
                  children: <Widget>[
                    Row(children: [
                      Card(
                         //color: Colors.red,
                         child: Container(
                           width: 170,
                           height: 200,
                           child: Column(
                               crossAxisAlignment: CrossAxisAlignment.c
enter,
                               children: <Widget>[
                                 Container(
                                     padding: new EdgeInsets.all(15.0),
                                     height: 110.0,
                                     child:
                                         Image.asset('assets/safe.pn
g')),
                                 Text("Alerte Feu",
                                     style: TextStyle(
```

```
fontSize: 24.0,
                                     )),
                              ]),
                        ),
                      ),
                      Card(
                        //color: Colors.red,
                        child: Container(
                          width: 170,
                          height: 200,
                          child: Column(
                              crossAxisAlignment: CrossAxisAlignment.c
enter,
                              children: <Widget>[
                                Container(
                                     padding: new EdgeInsets.all(15.0),
                                     height: 110.0,
                                     child: Image.asset('assets/eau.pn
g')),
                                Text("Réservoir",
                                     style: TextStyle(
                                       fontSize: 24.0,
                                     )),
                              1),
                        ),
                      ),
                    ]),
                    Row(children: [
                      Card(
                        //color: Colors.red,
                        child: Container(
                          width: 170,
                          height: 200,
                          child: Column(
                              crossAxisAlignment: CrossAxisAlignment.c
enter,
                              children: <Widget>[
                                Container(
                                    padding: new EdgeInsets.all(15.0),
                                     height: 110.0,
```

```
child:
                                          Image.asset('assets/temp.pn
g')),
                                 Text("Température",
                                      style: TextStyle(
                                        fontSize: 24.0,
                                      )),
                               ]),
                         ),
                       ),
                       Card(
                         //color: Colors.red,
                         child: Container(
                           width: 170,
                           height: 200,
                           child: Column(
                               crossAxisAlignment: CrossAxisAlignment.c
enter,
                               children: <Widget>[
                                 Text("Localisation",
                                      style: TextStyle(
                                        fontSize: 24.0,
                                      )),
                                 FlatButton(
                                    child: Container(
                                        padding: new EdgeInsets.all(15.
0),
                                        height: 110.0,
                                        child:
                                            Image.asset('assets/gps.pn
g')),
                                   onPressed: null,
                                 ),
                               ]),
                         ),
                       ),
                     ]),
                   ]),
              Column(
                mainAxisAlignment: MainAxisAlignment.spaceEvenly,
```

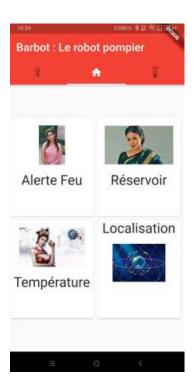
```
children: <Widget>[
                  Text(
                    "CONTROLE LANCE",
                    style: TextStyle(
                      fontStyle: FontStyle.normal,
                      fontWeight: FontWeight.bold,
                      fontSize: 25,
                    ),
                  ),
                  Container(
                      color: Colors.lightBlue,
                      child: Row(
                        mainAxisAlignment: MainAxisAlignment.spaceEven
ly,
                        children: <Widget>[
                           Column(
                            mainAxisAlignment: MainAxisAlignment.cente
                            children: <Widget>[
                               FloatingActionButton(
                                 onPressed: null,
                                 child: Center(child: Icon(Icons.arrow
back)),
                                 backgroundColor: Colors. red,
                                 focusColor: Colors.black26,
                               )
                             ],
                           ),
                           Column(
                            mainAxisSize: MainAxisSize.max,
                            mainAxisAlignment: MainAxisAlignment.cente
                            children: <Widget>[
                               Padding(
                                 padding: const EdgeInsets.all(10.0),
                                 child: FloatingActionButton(
                                   onPressed: null,
                                   child:
                                       Center(child: Icon(Icons.arrow u
pward)),
```

```
backgroundColor: Colors.blueGrey,
                                   focusColor: Colors.black26,
                                 ),
                               ),
                               Padding(
                                 padding: const EdgeInsets.all(10.0),
                                 child: FloatingActionButton(
                                   onPressed: null,
                                   child:
                                       Center(child: Icon(Icons.arrow d
lownward)),
                                   backgroundColor: Colors.blueGrey,
                                   focusColor: Colors.black26,
                                 ),
                               ),
                             ],
                           ),
                           Column(
                             children: <Widget>[
                               FloatingActionButton(
                                 onPressed: null,
                                 child: Center(child: Icon(Icons.arrow
forward)),
                                 backgroundColor: Colors.red,
                                 focusColor: Colors.black26,
                               )
                             ],
                           ),
                         1,
                       )),
                   Text(
                     "CONTROLE ROBOT",
                     style: TextStyle(
                       fontStyle: FontStyle.normal,
                       fontWeight: FontWeight.bold,
                       fontSize: 25,
                     ),
                   ),
                   Container(
                       color: Colors.grey,
```

```
child: Row(
                        mainAxisSize: MainAxisSize.max,
                        mainAxisAlignment: MainAxisAlignment.spaceEven
ly,
                        children: <Widget>[
                           Column(
                            mainAxisAlignment: MainAxisAlignment.cente
                            children: <Widget>[
                               FloatingActionButton(
                                 onPressed: null,
                                 child: Center(child: Icon(Icons.arrow_
back)),
                                 backgroundColor: Colors.blueGrey,
                                 focusColor: Colors.black26,
                            ],
                           ),
                           Column(
                            mainAxisSize: MainAxisSize.max,
                            mainAxisAlignment: MainAxisAlignment.space
Evenly,
                             children: <Widget>[
                               Padding(
                                 padding: const EdgeInsets.all(20.0),
                                 child: FloatingActionButton(
                                   onPressed: null,
                                   child:
                                       Center(child: Icon(Icons.arrow_u
pward)),
                                   backgroundColor: Colors. red,
                                   focusColor: Colors.black26,
                                 ),
                               ),
                               Padding(
                                 padding: const EdgeInsets.all(10.0),
                                 child: FloatingActionButton(
                                   onPressed: null,
                                   child:
                                       Center(child: Icon(Icons.arrow_d
```

```
ownward)),
                                   backgroundColor: Colors. red,
                                   focusColor: Colors.black26,
                                 ),
                               ),
                             ],
                           ),
                           Column(
                             children: <Widget>[
                               FloatingActionButton(
                                 onPressed: null,
                                 child: Center(child: Icon(Icons.arrow_
forward)),
                                 backgroundColor: Colors.blueGrey,
                                 focusColor: Colors.black26,
                             ],
                           ),
                         1,
                       )),
                   Container(
                     child: Row(
                       mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                       children: <Widget>[
                         FloatingActionButton(
                           onPressed: null,
                           child: Center(child: Text("EAU")),
                         ),
                         FloatingActionButton(
                           onPressed: null,
                           backgroundColor: Colors. red,
                           child: Center(
                             child: Icon(Icons.volume_up),
                           ),
                      ],
                    ),
                   )
                 ],
```

```
],
),
),
);
}
```



侧滑菜单栏

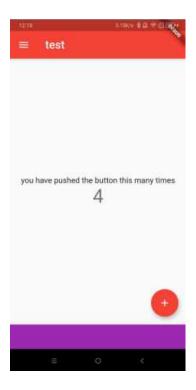
```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
```

```
return MaterialApp(
     title: "",
      theme: ThemeData(primarySwatch: Colors.red),
      home: new MyHomePage(),
   );
 }
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO:
   return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage> {
 int counter = 0;
 void incrementCounter() {
    setState(() {
     _counter++;
   });
  }
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
   return Scaffold(
      appBar: AppBar(
        title: new Text("test"),
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
```

```
Text(
            'you have pushed the button this many times',
          ),
          Text(
             '$_counter',
            style: Theme.of(context).textTheme.display1,
          ),
        ],
      ),
    ),
    bottomNavigationBar: BottomAppBar(
      child: Container(
        height: 50,
      color: Colors.purple,
    ),
    drawer: Drawer(
      child: Container(
        color: Colors.lightBlue,
      ),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: _incrementCounter,
      tooltip: 'Increment',
      child: Icon(Icons.add),
    ),
  );
}
```



菜单栏加侧滑

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
      title: "",
      theme: ThemeData(primarySwatch: Colors.red),
      home: new MyHomePage(
        title: 'Flutter demo home page',
      ),
    );
  }
class MyHomePage extends StatefulWidget {
  final String title;
```

```
MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
 void incrementCounter() {
    setState(() {
      _counter++;
   });
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        leading: Builder(builder: (BuildContext context) {
          return IconButton(
            icon: const Icon(Icons.menu),
            onPressed: () {
              Scaffold.of(context).openDrawer();
            },
          );
        }),
        actions: <Widget>[
          IconButton(
            icon: Icon(Icons.save),
            onPressed: () {
              debugPrint("save");
            },
          ),
          IconButton(
```

```
icon: Icon(Icons.share),
            onPressed: () {
              debugPrint("share");
            },
          ),
          PopupMenuButton(
            itemBuilder: (BuildContext context) => <PopupMenuItem<Stri</pre>
ng>>[
              PopupMenuItem<String>(
                child: new Text("帮助"),
                value: "help",
              ),
              PopupMenuItem<String>(
                child: new Text("关于"),
                value: "about",
              ),
            ],
            onSelected: (String action) {
              switch (action) {
                case "help":
                  debugPrint("help");
                  break;
                case "about":
                  debugPrint("about");
                  break;
              }
            },
          )
        ٦,
        title: new Text(widget.title),
      ),
      drawer: Drawer(
        child: Container(
          color: Colors.lightBlue,
        ),
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
```



Tab 标题栏

```
import 'package:flutter/material.dart';
```

```
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return MaterialApp(
      title: "",
      theme: ThemeData(primarySwatch: Colors.green),
      home: new MyHomePage(
        title: "TextHome",
      ),
    );
 }
|class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
   return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage>
   with SingleTickerProviderStateMixin {
 TabController _controller;
 var _tabs = <Tab>[];
 @override
 void initState() {
   // TODO: implement initState
   super.initState();
   _controller = TabController(initialIndex: 0, length: 3, vsync: thi
```

```
_tabs = <Tab>[
      Tab(
        text: "TabA",
      ),
      Tab(
        text: "TabB",
      ),
      Tab(
        text: "TabC",
      ),
   ];
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: new Text(widget.title),
        bottom: TabBar(
          tabs: _tabs,
          indicatorColor: Colors.white,
          indicatorWeight: 5,
          indicatorSize: TabBarIndicatorSize.tab,
          controller: _controller,
        ),
      ),
      body: TabBarView(
        controller: _controller,
        children: _tabs
            .map((Tab tab) => Container(child: Center(child: Text(tab.
text))))
            .toList(),
      ),
    );
  }
  @override
  void dispose() {
    // TODO: implement dispose
```

```
super.dispose();
  _controller.dispose();
}
```



底部菜单栏

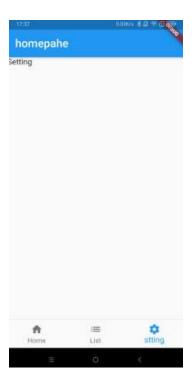
```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
```

```
return MaterialApp(
        title: "",
        theme: ThemeData(primarySwatch: Colors.blue),
        home: MyHomePage(
          title: "homepahe",
        ));
 }
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
 }
lclass MyHomePageState extends State<MyHomePage> {
  int _currentIndex = 0;
 List<Widget> _children;
 @override
 void initState() {
   // TODO: implement initState
   super.initState();
   _children = new List();
   _children.add(Text("Home"));
   _children.add(Text("List"));
   _children.add(Text("Setting"));
  }
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
```

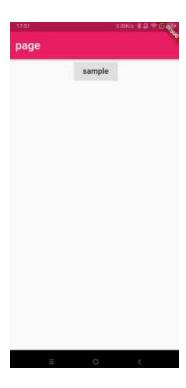
```
title: new Text(widget.title),
    ),
    body: _children[_currentIndex],
    bottomNavigationBar: BottomNavigationBar(
        currentIndex: _currentIndex,
        onTap: (int index) {
          setState(() {
            _currentIndex = index;
          });
        },
        items: [
          BottomNavigationBarItem(
            title: new Text("Home"),
            icon: new Icon(Icons.home),
          ),
          BottomNavigationBarItem(
            icon: new Icon(Icons.list),
            title: new Text("List"),
          ),
          BottomNavigationBarItem(
            icon: new Icon(Icons.settings),
            title: new Text("stting"),
          ),
        ]),
  );
}
```



带点击事件的按钮

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
      title: "",
      theme: ThemeData(primarySwatch: Colors.pink),
      home: new MyHomePage(
        title: "page",
      ),
    );
  }
class MyHomePage extends StatefulWidget {
  final String title;
```

```
MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
lclass MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      ),
      body: Center(
        child: Column(
          children: <Widget>[
            RaisedButton(
              child: Text("sample"),
              onPressed: () {
                debugPrint("sample pressed");
              },
          ],
        ),
      ),
   );
 }
```



带点击事件的图片按钮

```
limport 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
        return MaterialApp(
            title: "",
            theme: ThemeData(primarySwatch: Colors.pink),
            home: new MyHomePage(
                title: "page",
            ),
        );
    }
}
class MyHomePage extends StatefulWidget {
```

```
final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
   return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage> {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
        actions: <Widget>[
          new IconButton(
            icon: new Icon(Icons.favorite),
            onPressed: () {
              debugPrint("favorite icon pressed");
            },
            color: Colors. green,
          ),
          new IconButton(
            icon: new Icon(Icons.delete),
            color: Colors. red,
            onPressed: () {
              debugPrint("delete icon pressed");
            },
        ],
      ),
      body: Center(
        child: Text("hello world"),
      ),
    );
```



改进的递增按钮

```
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
 void _incrementCounter() {
    setState(() {
      _counter++;
    });
  }
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text(
              'you hava pushed the button this many times',
            ),
            Text(
              '$_counter',
              style: Theme.of(context).textTheme.display1,
```

```
],
),
),
floatingActionButton: FloatingActionButton.extended(
    onPressed: _incrementCounter,
    tooltip: 'Interment',
    label: Text("add"),
    icon: Icon(Icons.add),
    ),
    );
}
```



仿微信 popupWindow, 带点击事件

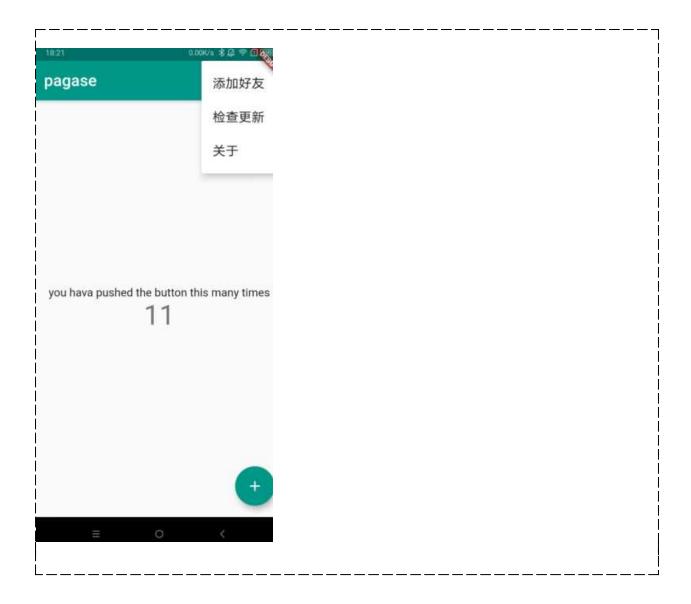
```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
   @override
   Widget build(BuildContext context) {
```

```
// TODO: implement build
    return MaterialApp(
      title: "",
      theme: ThemeData(primarySwatch: Colors.teal),
      home: new MyHomePage(
        title: "pagase",
      ),
   );
 }
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
 void incrementCounter() {
    setState(() {
      _counter++;
    });
  }
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
        actions: <Widget>[
          PopupMenuButton(
            itemBuilder: (BuildContext context) => <PopupMenuItem<Stri</pre>
ng>>[
              PopupMenuItem<String>(
                child: Text("添加好友"),
                value: "fav",
```

```
PopupMenuItem<String>(
              child: Text("检查更新"),
              value: "update",
            ),
            PopupMenuItem(
              child: Text("关于"),
              value: "about",
            ),
          ],
          onSelected: (String action) {
            switch (action) {
              case "fav":
                debugPrint("fav");
                break;
              case "update":
                debugPrint("update");
                break;
              case "about":
                debugPrint("about");
                break;
            }
          },
        )
      ],
    ),
    body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
          Text('you hava pushed the button this many times'),
          Text(
            '$_counter',
            style: Theme.of(context).textTheme.display1,
          ),
        ],
      ),
    floatingActionButton: FloatingActionButton(
      onPressed: _incrementCounter,
      tooltip: 'Increment',
      child: Icon(Icons.add),
    ),
  );
}
```



Seekbar 进度条

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: impLement build
        return MaterialApp(
        title: "",
        theme: ThemeData(primarySwatch: Colors.red),
```

```
home: new MyPageHome(
        title: "Seekbar",
      ),
   );
 }
class MyPageHome extends StatefulWidget {
 final String title;
 MyPageHome({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyPageHomeState();
  }
class MyPageHomeState extends State<MyPageHome> {
 double processValue = 0;
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: new Text(widget.title),
      ),
      body: Center(
        child: Slider(
          max: 100,
          min: ∅,
          activeColor: Colors.blue,
          value: processValue,
          onChanged: (double value){
            setState(() {
              debugPrint("当前进度: $value");
              processValue = value;
```

```
},
),
);
}
```



时间和日期选择器

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: impLement build
        return MaterialApp(
        title: "日期时间选择器",
        theme: ThemeData(primarySwatch: Colors.pink),
        home: new MyHomePage(
```

```
title: "日期时间选择器",
      ),
    );
lclass MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  var dateTime;
  void chooseDateTime() {
    showDatePicker(
      context: context,
      initialDate: new DateTime.now(),
      firstDate: new DateTime.now().subtract(new Duration(days: 30)),
      lastDate: new DateTime.now().add(new Duration(days: 30)),
    ).then((DateTime date) {
      dateTime = "${date.year}-${date.month}-${date.day}";
      showTimePicker(
        context: context,
        initialTime: new TimeOfDay.now(),
      ).then((time) {
        dateTime = "$dateTime ${time.hour}:${time.minute}";
        setState(() {});
      }).catchError((errorMsg) {
        debugPrint(errorMsg.toString());
      });
    }).catchError((errorMsg) {
      debugPrint(errorMsg.toString());
```

```
<del>});</del>
@override
Widget build(BuildContext context) {
  // TODO: implement build
  return Scaffold(
    appBar: AppBar(
      title: Text(widget.title),
    ),
    body: Center(
      child: Text(dateTime == null ? "日期时间选择器" : dateTime),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: chooseDateTime,
      tooltip: 'Increment',
      child: Icon(Icons.edit),
    ),
  );
}
```



Dialog 弹窗

```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
 Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
      title: "Dialog",
      theme: ThemeData(primarySwatch: Colors.green),
      home: new MyHomePage(
        title: "Dialog",
      ),
    );
  }
class MyHomePage extends StatefulWidget {
  final String title;
```

```
MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
   return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage> {
 void showSimpleDialog() {
   showDialog(
       context: context,
       builder: (BuildContext context) {
         return SimpleDialog(
           title: Text("一个Dialog 例子"),
           children: <Widget>[
             SimpleDialogOption(
               child: Text("选项B"),
               onPressed: () {
                 debugPrint("点击了选项A");
               },
             ),
             SimpleDialogOption(
               child: Text("选项B"),
               onPressed: () {
                 debugPrint("点击了选项 B");
               },
             ),
             SimpleDialogOption(
               child: Text("选项C"),
               onPressed: () {
                 debugPrint("点击了选项 C");
               },
             ),
             SimpleDialogOption(
               child: Text("选项D"),
               onPressed: () {
```

```
debugPrint("点击了选项 D");
              },
            ),
          ],
        );
      });
}
@override
Widget build(BuildContext context) {
  // TODO: implement build
  return Scaffold(
    appBar: AppBar(
      title: Text(widget.title),
    ),
    body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[],
      ),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: showSimpleDialog,
      tooltip: 'SimplaDoialog',
      child: Icon(Icons.flip_to_front),
    ),
  );
}
```



对话框 自定义

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
        return MaterialApp(
        title: "对话框样式",
        theme: ThemeData(primarySwatch: Colors.blue),
        home: new MyHomePage(
            title: "对话框样式",
            ),
        );
        );
      }
}
```

```
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
lclass MyHomePageState extends State<MyHomePage> {
  void showAlertDialog() {
    showDialog(
        context: context,
        builder: (BuildContext context) {
          return AlertDialog(
            title: Text("文件删除"),
            content: Text("删除后无法恢复"),
            actions: <Widget>[
              FlatButton(
                onPressed: () {
                  debugPrint("取消");
                },
                child: Text("取消"),
              ),
              FlatButton(
                onPressed: () {
                  debugPrint("删除");
                },
                child: Text("删除"),
            ],
          );
        });
```

```
@override
Widget build(BuildContext context) {
 // TODO: implement build
  return Scaffold(
    appBar: AppBar(
      title: Text(widget.title),
    ),
    body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[],
      ),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: showAlertDialog,
      tooltip: 'AlertDialog',
      child: Icon(Icons.delete),
    ),
  );
}
```



```
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
      title: "Spinner",
      theme: ThemeData(primarySwatch: Colors.pink),
      home: new MyHomePage(
        title: "Spinner",
      ),
    );
  }
lclass MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  var currentIndex = -1;
  List<int> mList;
 @override
  void initState() {
    // TODO: implement initState
```

```
super.initState();
 mList = new List();
  for (int i = 0; i < 3; i++) {
    mList.add(i);
 }
}
@override
Widget build(BuildContext context) {
 // TODO: implement build
 return Scaffold(
    appBar: AppBar(
      title: Text(widget.title),
    ),
    body: SingleChildScrollView(
      child: Container(
        child: ExpansionPanelList(
          expansionCallback: (index, isExpanded) {
            setState(() {
              currentIndex = (currentIndex != index) ? index : -1;
            });
          },
          children: mList.map((i) {
            switch (i){
              case 0:
                return new ExpansionPanel(
                  headerBuilder: (context, isExpanded) {
                    return new ListTile(
                      title: new Text("三国人物"),
                    );
                  },
                  body: new Padding(
                    padding: EdgeInsets.all(10.0),
                    child: ListBody(
                      children: <Widget>[
                        new Text("张飞"),
                        new Text("刘备"),
```

```
new Text("赵云"),
          new Text("吕布"),
        ],
      ),
    ),
   isExpanded: currentIndex == i,
  );
 break;
case 1:
  return new ExpansionPanel(
    headerBuilder: (context, isExpanded) {
      return new ListTile(
        title: new Text("西游人物"),
      );
    },
    body: new Padding(
     padding: EdgeInsets.all(10.0),
      child: ListBody(
        children: <Widget>[
          new Text("八戒"),
          new Text("悟空"),
          new Text("唐僧"),
        ],
      ),
    ),
   isExpanded: currentIndex == i,
  );
 break;
case 2:
  return new ExpansionPanel(
    headerBuilder: (context, isExpanded) {
      return new ListTile(
        title: new Text("红楼人物"),
      );
    },
    body: new Padding(
      padding: EdgeInsets.all(10.0),
      child: ListBody(
        children: <Widget>[
```

```
new Text("宝玉"),
                       new Text("晴雯"),
                        new Text("袭人"),
                       new Text("惜春"),
                       new Text("探春"),
                     ],
                    ),
                  ),
                  isExpanded: currentIndex == i,
                );
                break;
            }
          }).toList(),
       ),
      ),
    ),
  );
}
```



一个看不出效果的效果, 没啥意义, 仅作纪念

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
        return MaterialApp(
        title: "SnackBar示例",
        theme: ThemeData(primarySwatch: Colors.pink),
        home: new MyHomePage(
            title: "SnackBar示例",
        ),
        ),
        );
    }
}
```

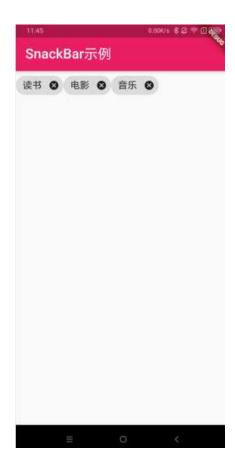
```
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
 GlobalKey<ScaffoldState> _scaffoldKey = new GlobalKey();
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      key: _scaffoldKey,
      appBar: AppBar(
        title: Text(widget.title),
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[],
        ),
      ),
      floatingActionButton: FloatingActionButton(
        onPressed: () {
          scaffoldKey.currentState.showSnackBar(
            SnackBar(
              content: Text("SnackBar 示例"),
            ),
          );
        },
        tooltip: 'Increment',
```

```
child: Icon(Icons.message),
    ),
    );
}
```

删除的文本按钮

```
import 'package:flutter/material.dart';
lvoid main() => runApp(MyApp());
lclass MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
      title: "SnackBar 示例",
      theme: ThemeData(primarySwatch: Colors.pink),
      home: new MyHomePage(
        title: "SnackBar 示例",
      ),
    );
  }
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  int _counter = 0;
```

```
void _incrementCounter() {
  setState(() {
    _counter++;
 });
}
@override
Widget build(BuildContext context) {
 // TODO: implement build
 return Scaffold(
    appBar: AppBar(
     title: Text(widget.title),
    ),
    body: Row(
      children: <Widget>[
        Chip(
         label: Text("读书"),
         onDeleted: () {
            debugPrint("删除读书");
         },
        ),
        Chip(
         label: Text("电影"),
         onDeleted: (){
            debugPrint("删除电影");
         },
        ),
        Chip(
         label: Text("音乐"),
         onDeleted: (){
            debugPrint("删除音乐");
         },
        ),
      ],
    ),
 );
```



卡片布局

```
import 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: impLement build
        return MaterialApp(
        title: "SnackBar示例",
        theme: ThemeData(primarySwatch: Colors.pink),
        home: new MyHomePage(
        title: "SnackBar示例",
        ),
        ));
        );
        )
}
```

```
}
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
   return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: Text(widget.title),
      ),
      body: SizedBox(
        height: 210.0,
        child: Card(
          child: Column(
            children: [
              ListTile(
                title: Text(
                  '1625 Main Street',
                  style: TextStyle(fontWeight: FontWeight.w500),
                ),
                subtitle: Text('my city,CA 99984'),
                leading: Icon(
                  Icons. restaurant menu,
                  color: Colors.blue[500],
                ),
              ),
              Divider(),
```

```
ListTile(
    title: Text('costa@example.com'),
    leading: Icon(Icons.contact_mail,color: Colors.blue[50

0],),
    ),
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```



Progress 进度条

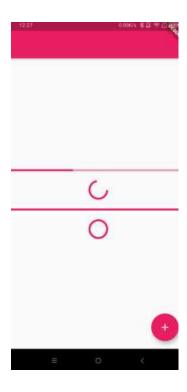
```
limport 'package:flutter/material.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
```

```
return MaterialApp(
      title: "SnackBar 示例",
      theme: ThemeData(primarySwatch: Colors.pink),
      home: new MyHomePage(
        title: "SnackBar 示例",
      ),
   );
  }
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage> {
 var progressValue = 0.0;
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return Scaffold(
      appBar: AppBar(
        title: Text(""),
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            LinearProgressIndicator(),
            Container(
              height: 20,
```

```
CircularProgressIndicator(),
          Container(
            height: 20,
          ),
          LinearProgressIndicator(
            value: progressValue,
          ),
          Container(
            height: 20,
          ),
          CircularProgressIndicator(
            value: progressValue,
          ),
        ],
      ),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: () {
        progressValue += 0.1;
        setState(() {});
      },
      child: Icon(Icons.add),
    ),
  );
}
```



顶部栏居中

```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
      title: "SnackBar 示例",
      theme: ThemeData(primarySwatch: Colors.pink),
      home: new MyHomePage(
        title: "SnackBar 示例",
      ),
    );
  }
class MyHomePage extends StatefulWidget {
```

```
final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
   return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage> {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
   return CupertinoPageScaffold(
      navigationBar: CupertinoNavigationBar(
       middle: Text(widget.title),
      ),
      child: Center(
       child: Text("Cupertino demo"),
      ),
   );
 }
```



两个页面之间的跳转

```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
void main() => runApp(MyApp());
lclass MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return CupertinoApp(
      title: "page one",
      home: PageOne(
        title: "page1",
      ),
    );
  }
class PageOne extends StatefulWidget {
  final String title;
  PageOne({Key key, this.title}) : super(key: key);
```

```
@override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new PageOneState();
  }
class PageOneState extends State<PageOne> {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return CupertinoPageScaffold(
        navigationBar: CupertinoNavigationBar(
          middle: Text("page one"),
        ),
        child: Center(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: <Widget>[
              Text("page one"),
              CupertinoButton(
                child: Text("jump to page two"),
                onPressed: () {
                  debugPrint("jump to page two");
                  Navigator.push(
                    context,
                    new CupertinoPageRoute(builder: (context) => new P
ageTwo()),
                  );
               },
            ],
        ));
  }
lclass PageTwo extends StatefulWidget {
  final String title;
  PageTwo({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new PageTwoState();
```

```
lclass PageTwoState extends State<PageTwo> {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return CupertinoPageScaffold(
      navigationBar: CupertinoNavigationBar(
        middle: Text("page one"),
        trailing: CupertinoButton(
          padding: EdgeInsets.all(10.0),
          child: Text("Delete"),
          onPressed: () {
            debugPrint("delete");
          },
        ),
      ),
      child: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text("page two"),
          ],
        ),
      ),
   );
  }
```



```
import 'package:flutter/cupertino.dart';
List<String> title;
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
  Widget build(BuildContext context) {
    // TODO: implement build
    title = new List();
    title.add("Home");
    title.add("book");
    title.add("Setting");
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
    );
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
 @override
```

```
void initState() {
 // TODO: implement initState
  super.initState();
}
@override
Widget build(BuildContext context) {
 // TODO: implement build
  return CupertinoTabScaffold(
    tabBuilder: (BuildContext context, int index) {
      return CupertinoTabView(
        builder: (BuildContext context) {
          return CupertinoPageScaffold(
            navigationBar: CupertinoNavigationBar(
              middle: Text(title[index]),
            ),
            child: Center(
              child: Text("${title[index]} page"),
            ),
          );
        },
      );
    },
    tabBar: CupertinoTabBar(
        onTap: (int index) {
          debugPrint("点击第$index 个页面");
        },
        items: <BottomNavigationBarItem>[
          BottomNavigationBarItem(
            icon: Icon(CupertinoIcons.home),
            title: Text(title[0]),
          ),
          BottomNavigationBarItem(
            icon: Icon(CupertinoIcons.book),
            title: Text(title[1]),
          BottomNavigationBarItem(
            icon: Icon(CupertinoIcons.settings),
            title: Text(title[2]),
```

Setting page

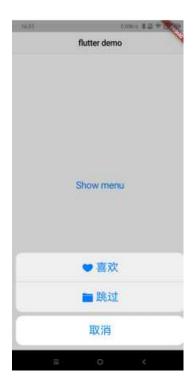


PopupWindow 弹窗

```
title.add("Home");
   title.add("book");
    title.add("Setting");
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
   );
  }
class MyHomePage extends StatefulWidget {
  final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
   return new MyHomePageState();
 }
class MyHomePageState extends State<MyHomePage> {
 CupertinoActionSheet buildCupertinoActionSheet(BuildContext context)
    return CupertinoActionSheet(
      cancelButton: CupertinoActionSheetAction(
        onPressed: () {
          debugPrint("取消");
          Navigator.pop(context);
        },
        child: Text("取消"),
      ),
      actions: <Widget>[
        CupertinoActionSheetAction(
          onPressed: () {
            debugPrint("喜欢");
            Navigator.pop(context);
```

```
child: Row(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Icon(CupertinoIcons.heart_solid),
            Container(
              width: 5.0,
            ),
            Text("喜欢")
          ],
        ),
      ),
      CupertinoActionSheetAction(
        onPressed: () {
          debugPrint("跳过");
          Navigator.pop(context);
        },
        child: Row(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Icon(CupertinoIcons.folder_solid),
            Container(
              width: 5.0,
            ),
            Text("跳过")
          ],
        ),
    ],
  );
}
@override
Widget build(BuildContext context) {
 // TODO: implement build
  return CupertinoPageScaffold(
      navigationBar: CupertinoNavigationBar(
        middle: Text(widget.title),
```

```
child: Center(
    child: CupertinoButton(
        child: Text("Show menu"),
        onPressed: () {
        showCupertinoModalPopup(
            context: context,
            builder: (context) {
            return buildCupertinoActionSheet(context);
            },
            );
        },
        ));
    },
    ));
}
```



正在加载 dialog

```
import 'package:flutter/cupertino.dart';
```

```
List<String> title;
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    title = new List();
    title.add("Home");
    title.add("book");
    title.add("Setting");
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
    );
  }
lclass MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return CupertinoPageScaffold(
      child: Center(
        child: CupertinoActivityIndicator(),
```

```
    navigationBar: CupertinoNavigationBar(
        middle: Text(widget.title),
        ),
        );
    }
}
```

仿苹果 dialog 样式

```
import 'package:flutter/cupertino.dart';
List<String> title;
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    title = new List();
    title.add("Home");
    title.add("book");
    title.add("Setting");
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
    );
  }
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
```

```
// TODO: implement createState
   return new MyHomePageState();
class MyHomePageState extends State<MyHomePage> {
 void showAlertDialog(BuildContext context) {
    showCupertinoDialog(
     context: context,
     builder: (context) {
       return CupertinoAlertDialog(
         title: Text("您正在控制卧室的台灯"),
         content: Text("请选择要执行的操作"),
         actions: <Widget>[
           CupertinoButton(
             child: Text("打开"),
             onPressed: () {
               debugPrint("台灯打开");
               Navigator.pop(context);
             },
           ),
           CupertinoButton(
             child: Text("关闭"),
             onPressed: () {
               debugPrint("台灯关闭");
               Navigator.pop(context);
             },
           ),
           CupertinoButton(
             child: Text("增加亮度"),
             onPressed: () {
               debugPrint("增加亮度");
               Navigator.pop(context);
             },
           ),
           CupertinoButton(
             child: Text("减少亮度"),
             onPressed: () {
               debugPrint("减少亮度");
```

```
Navigator.pop(context);
            },
          ),
          CupertinoButton(
            child: Text("保持现状"),
            onPressed: () {
              debugPrint("保持台灯");
              Navigator.pop(context);
            },
          ),
        ],
      );
    },
  );
@override
Widget build(BuildContext context) {
  // TODO: implement build
  return CupertinoPageScaffold(
    navigationBar: CupertinoNavigationBar(
      middle: Text(widget.title),
    ),
    child: Center(
      child: CupertinoButton(
        child: Text("show alert dialog"),
        onPressed: (){
          showAlertDialog(context);
        },
      ),
    ),
 );
}
```



ios 风格样式按钮

```
import 'package:flutter/cupertino.dart';

void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override

Widget build(BuildContext context) {
  // TODO: implement build
  return CupertinoApp(
    title: 'flutter demo',
    home: new MyHomePage(
    title: "flutter demo",
    ),
    );
  };
}
```

```
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
lclass MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return CupertinoPageScaffold(
      navigationBar: CupertinoNavigationBar(
        middle: Text(widget.title),
      ),
      child: Center(
        child: CupertinoButton(
          child: Text("cupertionButton"),
          color: CupertinoColors.activeBlue,
          onPressed: () {
            debugPrint("点击了 CupertinoButton");
          },
        ),
      ),
   );
  }
```

仿 ios 时间日期选择器

```
import 'package:flutter/cupertino.dart';
void main() => runApp(MyApp());
```

```
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
    );
 }
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return CupertinoPageScaffold(
      navigationBar: CupertinoNavigationBar(
        middle: Text(widget.title),
      ),
      child: Container(
        alignment: Alignment.bottomCenter,
        child: Container(
          height: 300.0,
          child: CupertinoDatePicker(
            onDateTimeChanged: (dateTime) {
```



```
Tue Apr 28 9 99
Wed Apr 29 10 10
Thu Apr 30 11 11
Fri May 1 12 12
Sat May 2 13 13
Sun May 3 14 14
Mon May 4 15 15
Tue May 5 16 16
Wed May 6 17 17
```

秒表选择器

```
import 'package:flutter/cupertino.dart';
|
void main() => runApp(MyApp());
```

```
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
    );
 }
class MyHomePage extends StatefulWidget {
 final String title;
 MyHomePage({Key key, this.title}) : super(key: key);
 @override
 State<StatefulWidget> createState() {
   // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
 @override
 Widget build(BuildContext context) {
   // TODO: implement build
    return CupertinoPageScaffold(
      navigationBar: CupertinoNavigationBar(
        middle: Text(widget.title),
      ),
      child: Container(
        alignment: Alignment.topCenter,
        child: Container(
          height: 300.0,
          child: CupertinoTimerPicker(
            onTimerDurationChanged: (duration) {
```



picker 选择器

```
import 'package:flutter/cupertino.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
   @override
   Widget build(BuildContext context) {
```

```
// TODO: implement build
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
    );
  }
lclass MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  CupertinoPicker buildCupertinoPicker(BuildContext context) {
    return CupertinoPicker(
      itemExtent: 30,
      looping: false,
      backgroundColor: CupertinoColors.white,
      onSelectedItemChanged: (index) {
        debugPrint("current select $index");
      children: List<Widget>.generate(5, (index) {
        return Center(
          child: Text("我是第$index 个项目"),
        );
      }),
    );
  }
  @override
```

```
Widget build(BuildContext context) {
  // TODO: implement build
  return CupertinoPageScaffold(
    navigationBar: CupertinoNavigationBar(
      middle: Text(widget.title),
    ),
    child: Center(
      child: CupertinoButton(
        child: Text("show cupertinoPicker"),
        onPressed: () {
          showCupertinoModalPopup(
            context: context,
            builder: (context) {
              return buildCupertinoPicker(context);
            },
          );
        },
      ),
    ),
 );
}
```

我是第0个项目 我是第1个项目 我是第2个项目 我是第3个项目 我是第4个项目

≡ 0 <

```
import 'package:flutter/cupertino.dart';
void main() => runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return CupertinoApp(
      title: 'flutter demo',
      home: new MyHomePage(
        title: "flutter demo",
      ),
    );
  }
class MyHomePage extends StatefulWidget {
  final String title;
  MyHomePage({Key key, this.title}) : super(key: key);
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return new MyHomePageState();
  }
class MyHomePageState extends State<MyHomePage> {
  double processValue = 0;
  @override
  Widget build(BuildContext context) {
   // TODO: implement build
    return CupertinoPageScaffold(
        navigationBar: CupertinoNavigationBar(
```

```
middle: Text(widget.title),
      ),
      child: Center(
        child: CupertinoSlider(
          max: 100,
          min: ∅,
          activeColor: CupertinoColors.activeBlue,
          value: processValue,
          onChanged: (double value){
            setState(() {
              debugPrint("当前进度:$value");
              processValue = value;
            });
          },
        ),
      ));
}
```

16/57 8.700/s \$ 2 ♥ 100/s flutter demo

≡ 0 <

仿新闻类 APP:

1. 导入包:

```
cupertino_icons: ^0.1.3
url_launcher: ^5.0.3
```

2. main. dart

```
import 'package:flutter/material.dart';
import 'dart:convert';
import 'dart:io';
import 'news_channel.dart';
import 'news_json_resp.dart';
import 'news_list.dart';
List<ChannelList> _channelList;
NewsData _newsData;
String defaultUrl = "http://v.juhe.cn/toutiao/index?";
String key = "key=4cd58305bd70f1a1e33bab4b692a0e90";
String type = "type=";
String url;
ChannelList currentChannel;
void main() {
  runApp(MyApp());
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    _channelList = new List();
    _channelList.add(new ChannelList("头条", "头条"));
     _channelList.add(<mark>new_ChannelList("社会", "社会"));</mark>
```

```
channelList.add(new ChannelList("国内", "国内"));
   _channelList.add(new ChannelList("国际", "国际"));
   _channelList.add(new ChannelList("娱乐", "娱乐"));
   _channelList.add(new ChannelList("体育", "体育"));
   channelList.add(new ChannelList("军事", "军事"));
   _channelList.add(new ChannelList("科技", "科技"));
   channelList.add(new ChannelList("财经", "财经"));
   channelList.add(new ChannelList("时尚", "时尚"));
   currentChannel = _channelList[0];
   return MaterialApp(
     title: "头条新闻",
     theme: ThemeData(
       primarySwatch: Colors.blue,
     ),
     home: NewsList(title: "头条新闻"),
   );
 }
class NewsList extends StatefulWidget {
 NewsList({Key key, this.title}) : super(key: key);
 final String title;
 @override
  _NewsListState createState() => _NewsListState();
class NewsListState extends State<NewsList>
   with SingleTickerProviderStateMixin {
 bool isLoading = false;
 List<Widget> listItems;
 // 构建侧边栏头部
Widget buildDrawerHeader() {
   return Container(
       child: Text("频道列表",
           style: TextStyle(color: Colors.white, fontSize: 30),
```

```
textAlign: TextAlign.end),
        height: 100,
        color: Colors.blue,
        padding: EdgeInsets.all(5),
        alignment: Alignment.bottomRight);
 }
 // 构建侧边栏元素
 List<Widget> buildDrawerItems(List<ChannelList> channelList) {
    List<Widget> widgets = new List();
    widgets.add(buildDrawerHeader());
    for (int i = 0; i < channelList.length; i++) {</pre>
      widgets.add(Container(
          child: InkWell(
              child: Text( channelList[i].name,
                  style: TextStyle(color: Colors.blue, fontSize: 25),
                  textAlign: TextAlign.center),
              onTap: () {
                currentChannel = _channelList[i];
                refresh();
              }),
          padding: EdgeInsets.all(10)));
    return widgets;
  }
 // 刷新数据
 refresh() async {
    url = "$defaultUrl$type${currentChannel.type}&$key";
    if (!isLoading) {
      isLoading = true;
      try {
        HttpClient httpClient = new HttpClient();
        HttpClientRequest request = await httpClient.getUrl(Uri.parse
|(url));
        HttpClientResponse response = await request.close();
        String responseContent = await response.transform(utf8.decode
r).join();
        newsData = NewsData.fromJson(json.decode(responseContent));
        listItems = ListBuilder.genWidgetsFromJson( newsData);
```

```
setState(() {});
     httpClient.close();
    } catch (e) {
      debugPrint("请求失败: $e");
    } finally {
      setState(() {
        isLoading = false;
      });
    }
  } else {
    debugPrint("正在刷新");
}
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
     title: Text(widget.title),
    ),
    drawer: Drawer(
        child: ListView(
            padding: EdgeInsets.zero,
            children: buildDrawerItems(_channelList))),
    body: Center(
      child: listItems != null
          ? ListView(
        children: listItems,
      )
          : Text("请点击刷新按钮"),
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: refresh,
      tooltip: "刷新",
     child: Icon(Icons.refresh),
    ),
 );
}
```

```
3. news_channel.dart
lclass ChannelList{
  String name;
  String type;
  ChannelList(this.name, this.type);
4. news json resp. dart
class NewsData {
  String reason;
  Result result;
  int error_code;
  NewsData(this.reason, this.result, this.error_code);
  NewsData.fromJson(Map<String, dynamic> jsonStr) {
    this.reason = jsonStr['reason'];
    this.error_code = jsonStr['error_code'];
    this.result = Result.fromJson(jsonStr['result']);
  }
class Result {
  String stat;
  Data data;
  Result(this.stat, this.data);
  Result.fromJson(Map<String, dynamic> jsonStr) {
    this.stat = jsonStr['stat'];
    this.data = Data.fromJson(jsonStr['data']);
  }
```

class Data {

```
List<DataItem> dataItems;
  Data.fromJson(List items) {
    dataItems = new List();
    for (var i = 0; i < items.length; i++) {</pre>
      DataItem dataItem = new DataItem(
          items[i]['uniquekey'],
          items[i]['title'],
          items[i]['date'],
          items[i]['category'],
          items[i]['author_name'],
          items[i]['url'],
          items[i]['thumbnail_pic_s'],
          items[i]['thumbnail_pic_s02'],
          items[i]['thumbnail_pic_s03']);
      dataItems.add(dataItem);
    }
  }
class DataItem {
  String uniquekey;
  String title;
  String date;
  String category;
  String author_name;
  String url;
  String thumbnail_pic_s;
  String thumbnail_pic_s02;
  String thumbnail_pic_s03;
  DataItem(
      this.uniquekey,
      this.title,
      this.date,
      this.category,
      this.author_name,
      this.url,
      this.thumbnail_pic_s,
      this.thumbnail_pic_s02,
```

```
this.thumbnail_pic_s03);
5. news list.dart
import 'package:flutter/material.dart';
limport 'news_json_resp.dart';
import 'package:url launcher/url launcher.dart';
class ListBuilder {
  static List<Widget> genWidgetsFromJson(NewsData newsData) {
    List<Widget> returnData = new List();
    List<DataItem> dataItems = newsData.result.data.dataItems;
    for (var i = 0; i < dataItems.length; i++) {</pre>
      returnData.add(ListItem.genSingleItem(dataItems[i]));
    }
    return returnData;
  }
lclass ListItem {
  static Widget genSingleItem(DataItem dataItem) {
    String uniquekey = dataItem.uniquekey;
    String title = dataItem.title;
    String date = dataItem.date;
    String category = dataItem.category;
    String author name = dataItem.author name;
    String url = dataItem.url;
    String thumbnail_pic_s = dataItem.thumbnail_pic_s;
    String thumbnail pic s02 = dataItem.thumbnail pic s02;
    String thumbnail_pic_s03 = dataItem.thumbnail_pic_s03;
    return Container(
        padding: EdgeInsets.all(5.0),
        child: InkWell(
            onTap: () {
              openDetail(url);
```

```
child: Row(
              children: <Widget>[
                Image(
                    alignment: Alignment.centerLeft,
                    width: 100,
                    height: 100,
                    image: new NetworkImage(thumbnail pic s)),
                Expanded(
                    child: Column(
                      mainAxisAlignment: MainAxisAlignment.start,
                      children: <Widget>[
                        Container(
                             padding: EdgeInsets.all(3.0),
                             child: Text(date),
                             alignment: Alignment.topLeft),
                        Container(
                          padding: EdgeInsets.all(3.0),
                           child: Text(title,
                               softWrap: false, overflow: TextOverflow.
ellipsis),
                          alignment: Alignment.centerLeft,
                        ),
                        Container(
                             padding: EdgeInsets.all(3.0),
                             child: Text(author name),
                             alignment: Alignment.bottomLeft)
                      ],
                    ))
              ],
            )));
  }
  static void openDetail(String url) async {
    if (await canLaunch(url)) {
      await launch(url);
    } else {
      throw 'Could not launch $url';
    }
  }
```

头条新闻



2020-06-23 16:34 塞尔维亚最性感女歌手 现代时髦... |全球时尚|



2020-06-23 16:28 薇娅在直播时勃然大怒:"不播... 顶厨速递



北京:中高风险街乡、新发地批...



2020-06-23 16:10 蓄谋已久! 湖人手握关键筹码, ... 体育画圈圈



2020-06-23 16:06 王丽坤美照,纯美靓丽,青春范... 娱乐圈那点事

