



Mídias Executando Sons e Vídeos

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O que vamos aprender nessa aula?

- Nessa aula vamos aprender executar sons e vídeos em nossos aplicativos com URLs ou arquivos (mp3 e mp4, por exemplo).

Dependência - AudioPlayers

audioplayers 0.19.0

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[FLUTTER](#) [ANDROID](#) [IOS](#) [MACOS](#) [WEB](#)

841

[Readme](#) [Changelog](#) [Example](#) [Installing](#) [Versions](#) [Scores](#)

AudioPlayers

pub v0.19.0 build passing chat 246 online

A Flutter plugin to play multiple simultaneously audio files, works for Android, iOS

Contributing

We now have new rules for contributing!

All help is appreciated but if you have questions, bug reports, issues, feature requests, please first refer to our [Contributing Guide](#).

Also, as always, please give us a star to help!

This will add a line like this to your package's pubspec.yaml (and run an implicit `dart pub get`):

```
dependencies:  
  audioplayers: ^0.19.0
```

Alternatively, your editor might support `flutter pub get`. Check the docs for your editor to learn more.

Import it

Now in your Dart code, you can use:

```
import 'package:audioplayers/audioplayers.dart';
```

Exemplos de MP3 Gratuitos





Navigation

- Introduction
- ▼ Examples
 - Audio examples
 - MIDI examples
 - XML examples
- Download
- Change log
- Frequently asked questions
- Tutorial
- Documentation
 - Javadocs
 - Tools
 - Support
 - Contribute
 - License
 - Contact
 - Donations

by letting SoundHelix remote-control a MIDI software synthesizer in real-time with SoundHelix's built-in MIDI sequencer, while recording this with Audacity and converting the result to MP3 format using the Lame MP3 Encoder. Note that all songs with the same record date have been created with an identical SoundHelix XML file using different random seeds.

Please read the [license](#) before using these MP3s anywhere. You need Flash to use the inline MP3 player, otherwise just click on or download the MP3s to play them.

MP3 examples

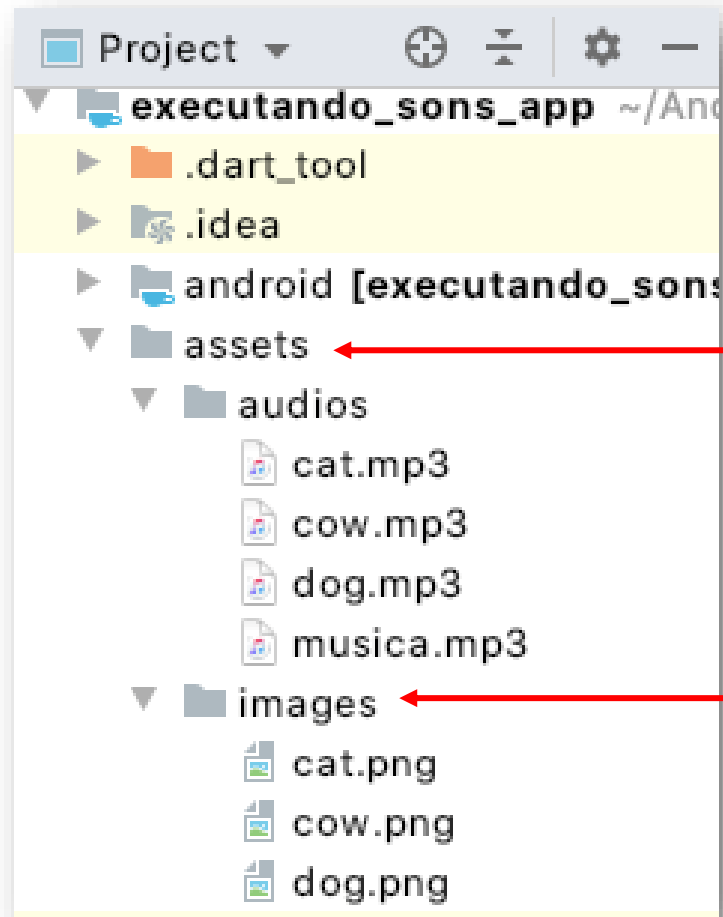
Title	Artist	Recording date	Format	Version	Play
SoundHelix Song 1	T. Schürger	07/06/2009	MP3/192	<0.0.1	
SoundHelix Song 2	T. Schürger	25/08/2009	MP3/192	<0.0.1	
SoundHelix Song 3	T. Schürger	07/06/2009	MP3/192	<0.0.1	
SoundHelix Song 4	T. Schürger	07/09/2009	MP3/192	<0.0.1	

Executando um áudio com URL

```
class _HomeState extends State<Home> {  
  AudioPlayer audioPlayer = AudioPlayer();  
  String url = "https://www.soundhelix.com/examples/mp3/SoundHelix-Song-2.mp3";  
  _executar() async{  
    int resultado = await audioPlayer.play(url);  
    if (resultado == 1) {  
      // sucesso  
    }  
  }  
}
```

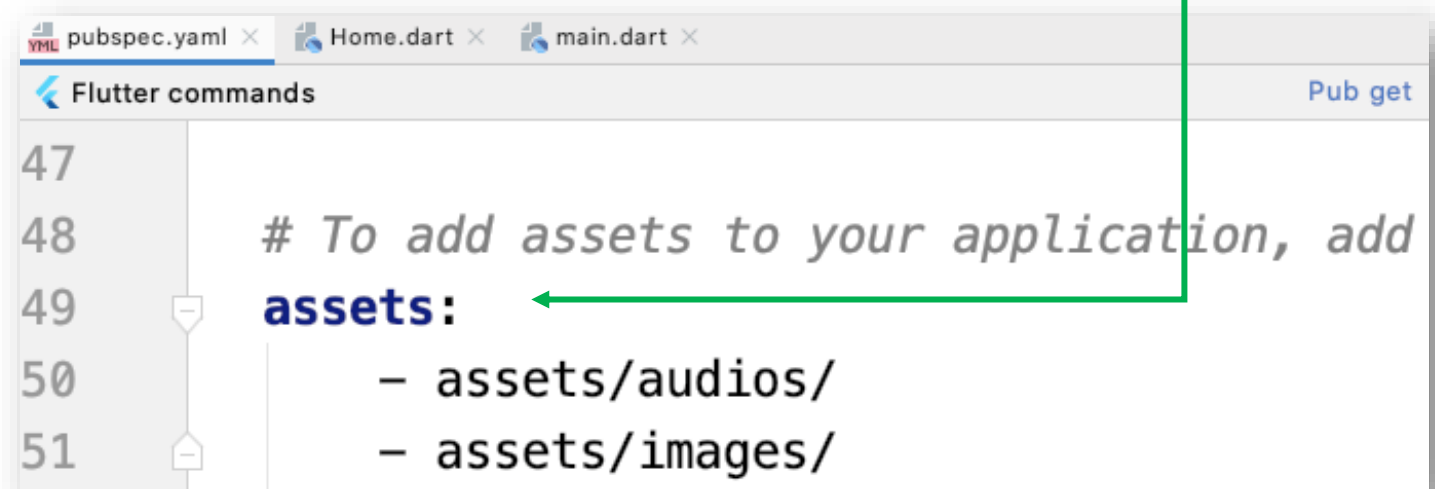
Não esquecer de incluir o import =>
import
'package:audioplayers/audioplayers
.dart';

Executando um áudio de um arquivo MP3



Criar o diretório assets, e dentro dele, vou colocar outros diretórios: audios e images

Tirar o comentário de assets no arquivo pubspec.yaml, e incluir uma linha para o diretório de imagens e o outro de audios, como a seguir



Executando um áudio de um arquivo MP3

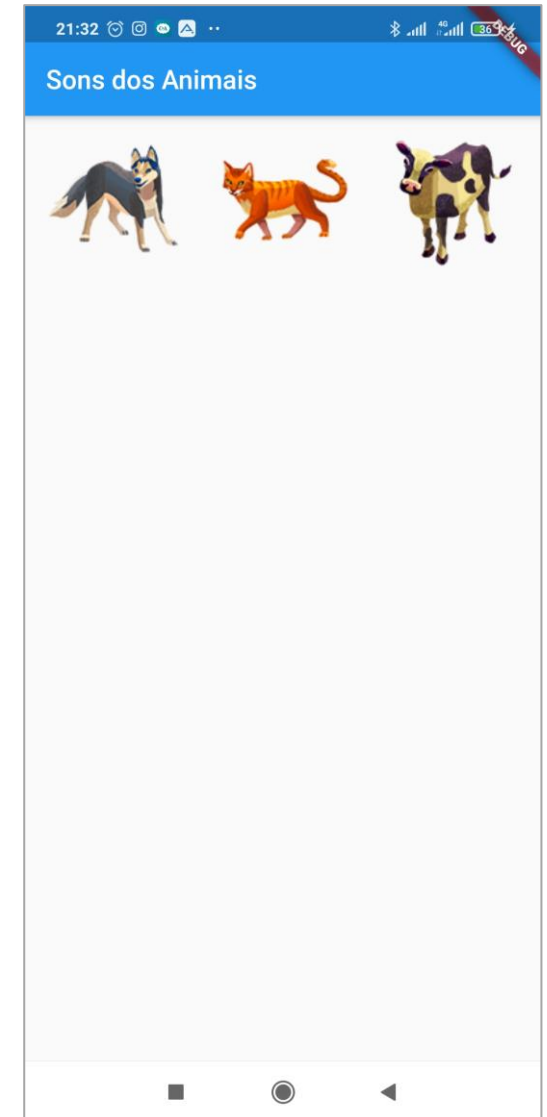
```
class _HomeState extends State<Home> {  
  AudioPlayer audioPlayer = AudioPlayer();  
  AudioCache audioCache = AudioCache(prefix: "assets/audios/");  
  
  _executar() async{  
    audioPlayer = await audioCache.play("dog.mp3");  
  }  
}
```

Para usar o AudioCache, é necessário importar o seguinte pacote: **import**
'package:audioplayers/audioplayers.dart';

o audioCache retorna um objeto audio player

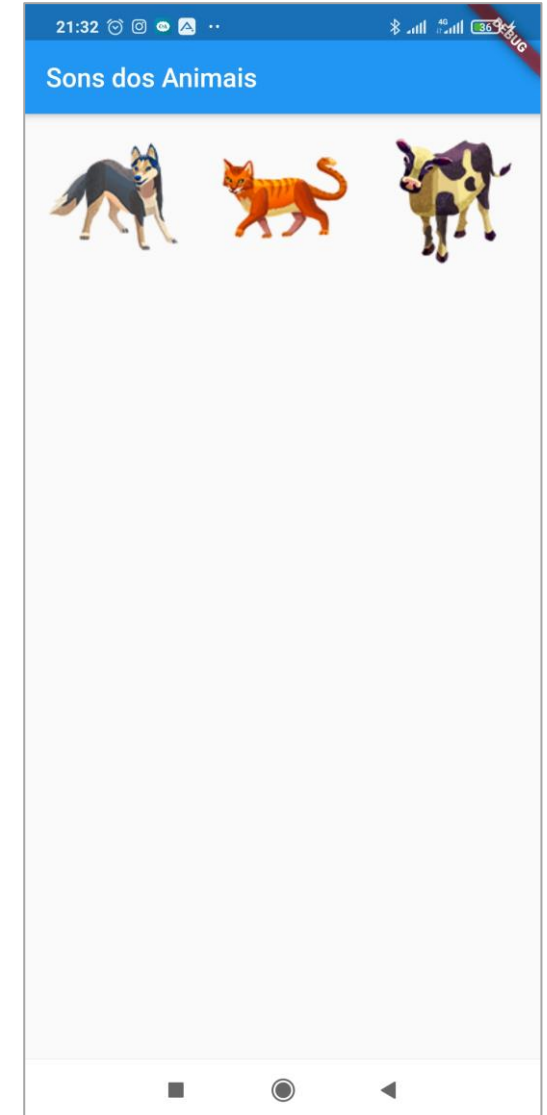
Exemplo - Sons dos Animais

```
_executarDog() async {  
    audioPlayer = await audioCache.play("dog.mp3");  
}  
_executarCat() async {  
    audioPlayer = await audioCache.play("cat.mp3");  
}  
_executarCow() async {  
    audioPlayer = await audioCache.play("cow.mp3");  
}
```



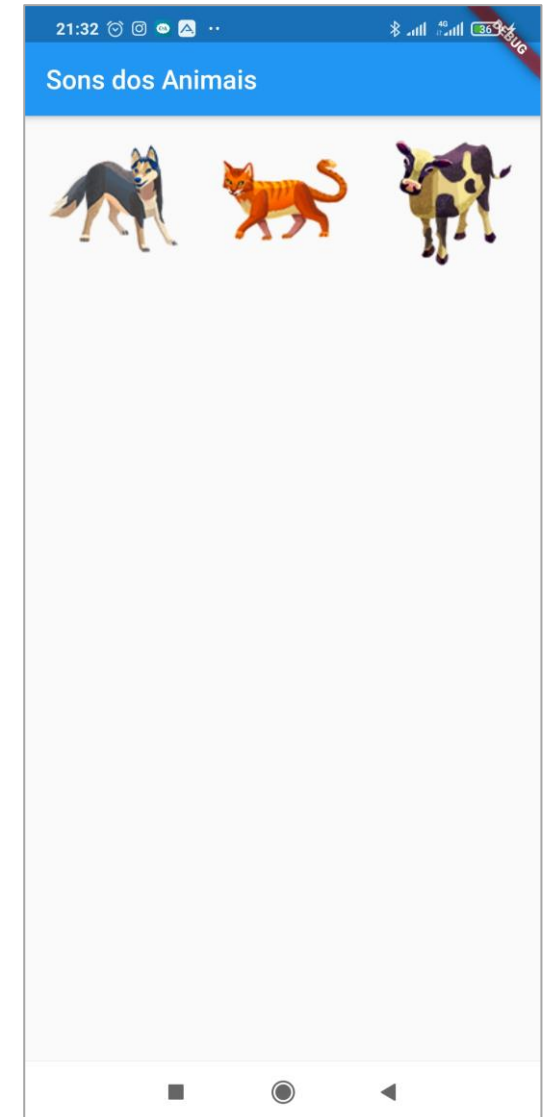
Exemplo - Sons dos Animais

```
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(  
      title: Text("Sons dos Animais"),  
    ), // AppBar  
    body: Column(  
      children: <Widget>[  
        Row(  
          mainAxisAlignment: MainAxisAlignment.center,  
          children: <Widget>[  
            Padding(  
              padding: EdgeInsets.all(8),  
              child: GestureDetector(  
                child: Image.asset("assets/images/dog.png"),  
                onTap: (){  
                  _executarDog();  
                },  
              ), // GestureDetector  
            ), // Padding  
          ],  
        ),  
      ],  
    ),  
  );  
}
```



Exemplo - Sons dos Animais

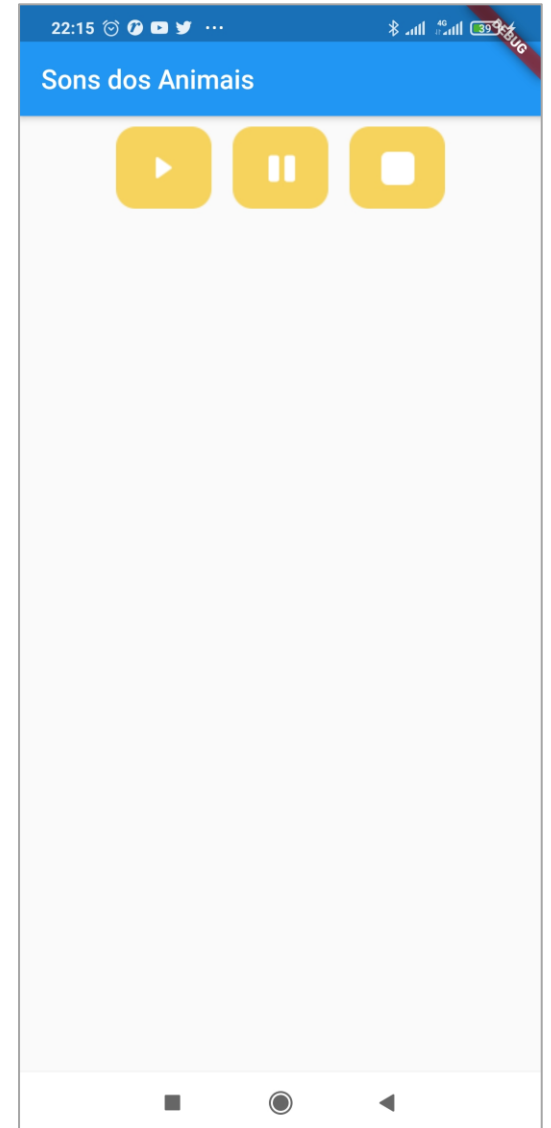
```
Padding(  
  padding: EdgeInsets.all(8),  
  child: GestureDetector(  
    child: Image.asset("assets/images/cat.png"),  
    onTap: (){  
      _executarCat();  
    },  
  ), // GestureDetector  
), // Padding  
Padding(  
  padding: EdgeInsets.all(8),  
  child: GestureDetector(  
    child: Image.asset("assets/images/cow.png"),  
    onTap: (){  
      _executarCow();  
    },  
  ), // GestureDetector  
), // Padding
```



Exemplo - Executando Sons Player

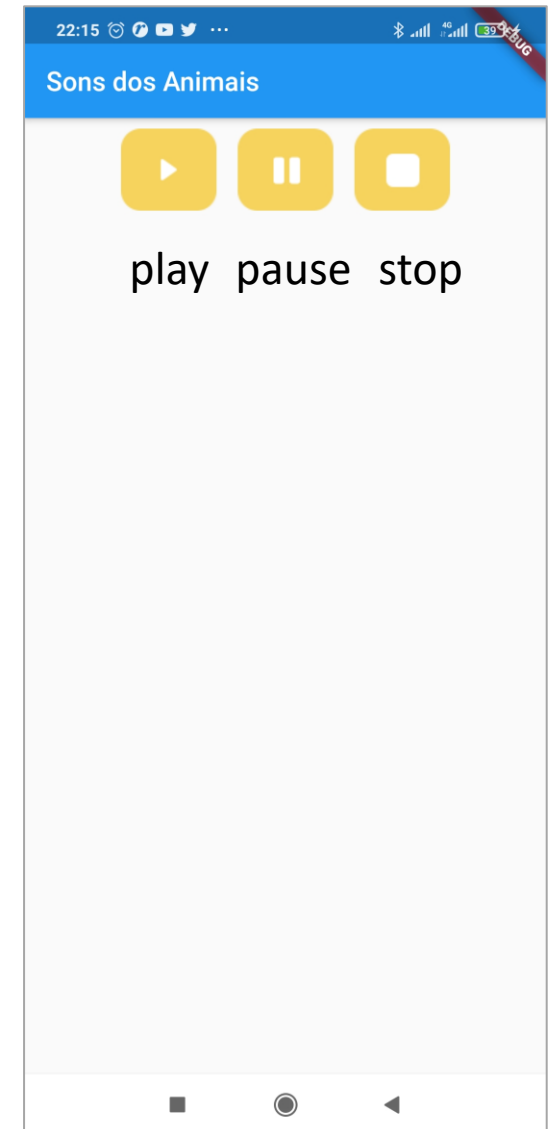
```
AudioPlayer audioPlayer = AudioPlayer();  
AudioCache audioCache = AudioCache(prefix: "assets/audios/");  
bool primeiraExecucao = true;  
  
_executar() async {  
  if(primeiraExecucao == true){  
    audioPlayer = await audioCache.play("musica.mp3");  
    primeiraExecucao = false;  
  } else{  
    audioPlayer.resume();  
  }  
}
```

O método resume() continua e executa a partir do ponto que foi pausado



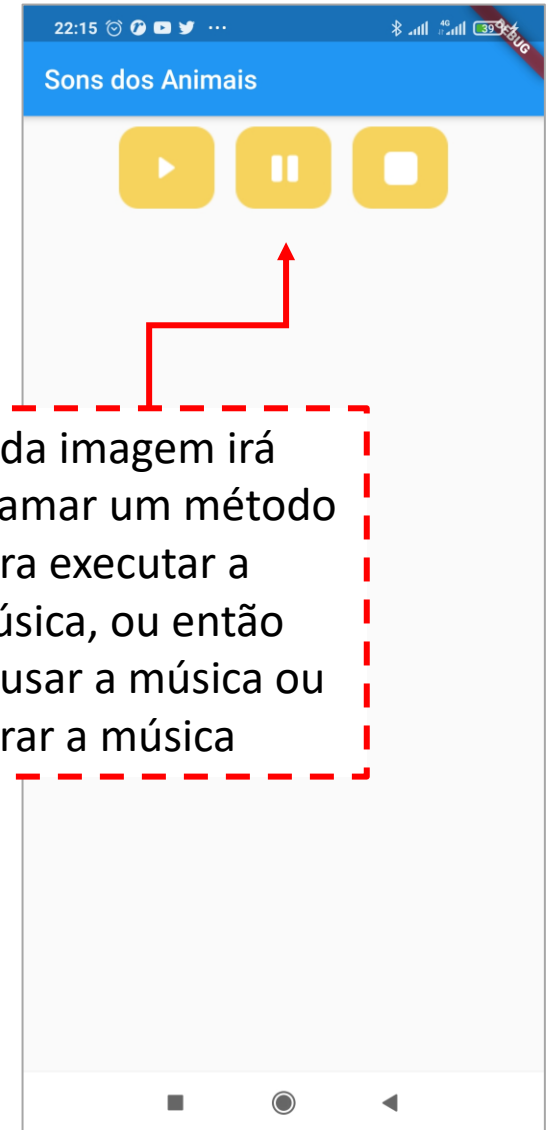
Exemplo - Executando Sons Player

```
_pausar() async{  
  int resultado = await audioPlayer.pause();  
  if(resultado == 1){  
    //sucesso  
  }  
}  
  
_parar() async{  
  int resultado = await audioPlayer.stop();  
  if(resultado == 1){  
    //sucesso  
  }  
}
```



Exemplo - Executando Sons Player

```
Padding(  
  padding: EdgeInsets.all(8),  
  child: GestureDetector(  
    child: Image.asset("assets/images/executar.png"),  
    onTap: () {  
      _executar();  
    },  
  ), // GestureDetector  
) // Padding
```

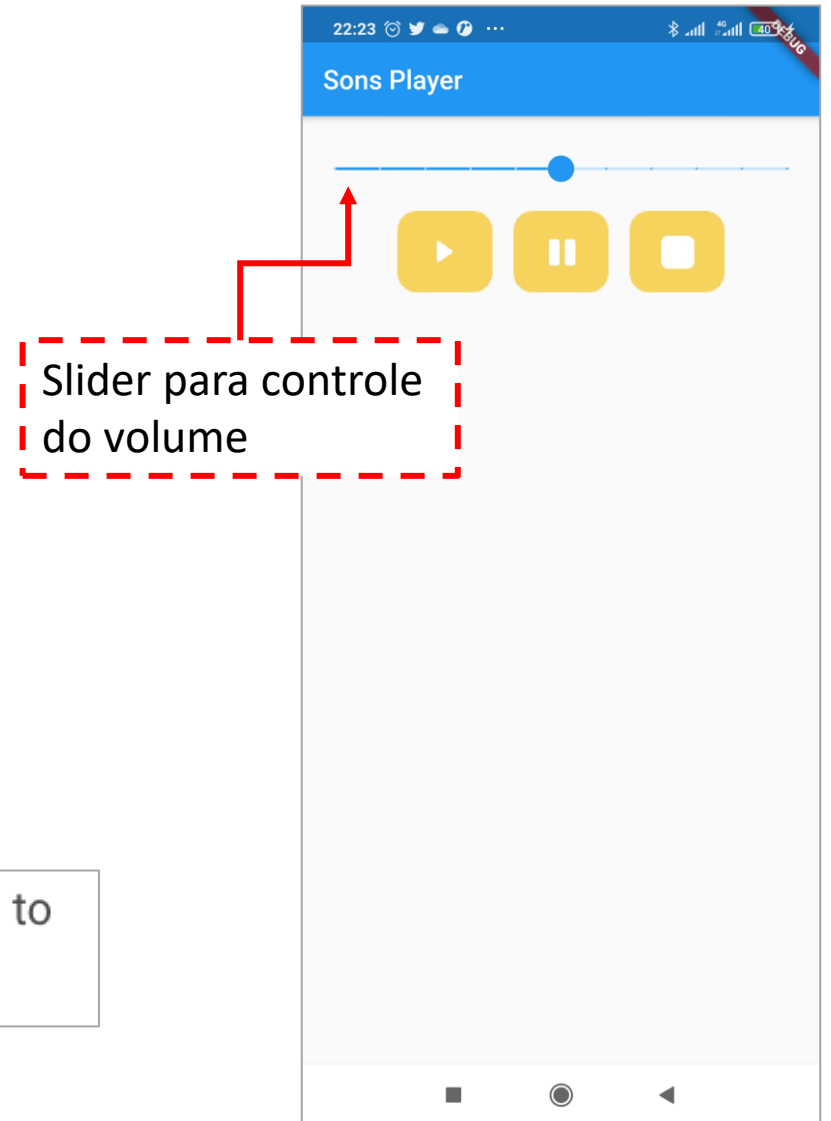


Controlando o volume

- Vamos usar o slider para realizar o controle de volume, mas na própria definição do áudio player, o valor zero é mudo e o valor 1 é o volume máximo

There is also an optional named `double volume` parameter, that defaults to `1.0`. It can go from `0.0` (mute) to `1.0` (max), varying linearly.

Fonte: <https://pub.dev/packages/audioplayers>



Controlando o volume

```
Slider(  
  value: volume,  
  min: 0,  
  max: 1,  
  divisions: 10,  
  onChanged: (novoVolume){  
    setState(() {  
      volume = novoVolume;  
    });  
    audioPlayer.setVolume(novoVolume);  
  }  
, // Slider
```

```
double volume = 0.5;  
  
_executar() async {  
  audioPlayer.setVolume(volume);  
  if(primeiraExecucao == true){  
    audioPlayer = await audioCache.play("musica.mp3");  
    primeiraExecucao = false;  
  } else{  
    audioPlayer.resume();  
  }  
}
```

Vamos fazer a primeira
definição de volume ao
dar play na música

Dependência - VideoPlayer

video_player 2.1.1

Published Apr 6, 2021 • flutter.dev Null safety

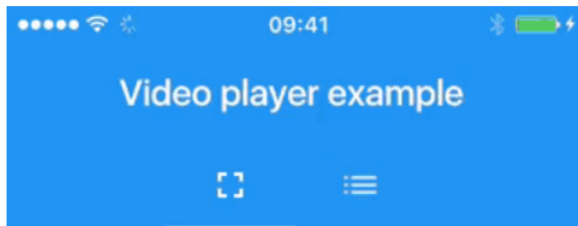
FLUTTER ANDROID IOS WEB

Readme Changelog Example Installing Versions Scores

Video Player plugin for Flutter

pub v2.1.1

A Flutter plugin for iOS, Android and Web for playing back video on a Widget screen.



This will add a line like this to your package's pubspec.yaml (and run an implicit `dart pub get`):

```
dependencies:  
  video_player: ^2.1.1
```

Alternatively, your editor might support `flutter pub get`. Check the docs for your editor to learn more.

Import it

Now in your Dart code, you can use:

```
import 'package:video_player/video_player.dart';
```


Executando vídeos com URLs

iOS

Warning: The video player is not functional on iOS simulators. An iOS device must be used during development/testing.

Add the following entry to your *Info.plist* file, located in `<project root>/ios/Runner/Info.plist`:

```
<key>NSAppTransportSecurity</key>
<dict>
  <key>NSAllowsArbitraryLoads</key>
  <true/>
</dict>
```

Configurações que devem ser feitas, apenas para execuções de vídeos a partir de URLs

Android

Ensure the following permission is present in your Android Manifest file, located in `<project root>/android/app/src/main/AndroidManifest.xml`:

```
<uses-permission android:name="android.permission.INTERNET" />
```

Executando vídeos com URLs

```
class _HomeState extends State<Home> {  
  VideoPlayerController _videocontroller;  
  
  @override  
  void initState() {  
    super.initState();  
    _videocontroller = VideoPlayerController.network(  
      "https://sample-videos.com/video123/mp4/720/big_buck_bunny_720p_1mb.mp4")  
    ..initialize().then((_){});  
    setState(() {  
      _videocontroller.play();  
    });  
  }  
}
```

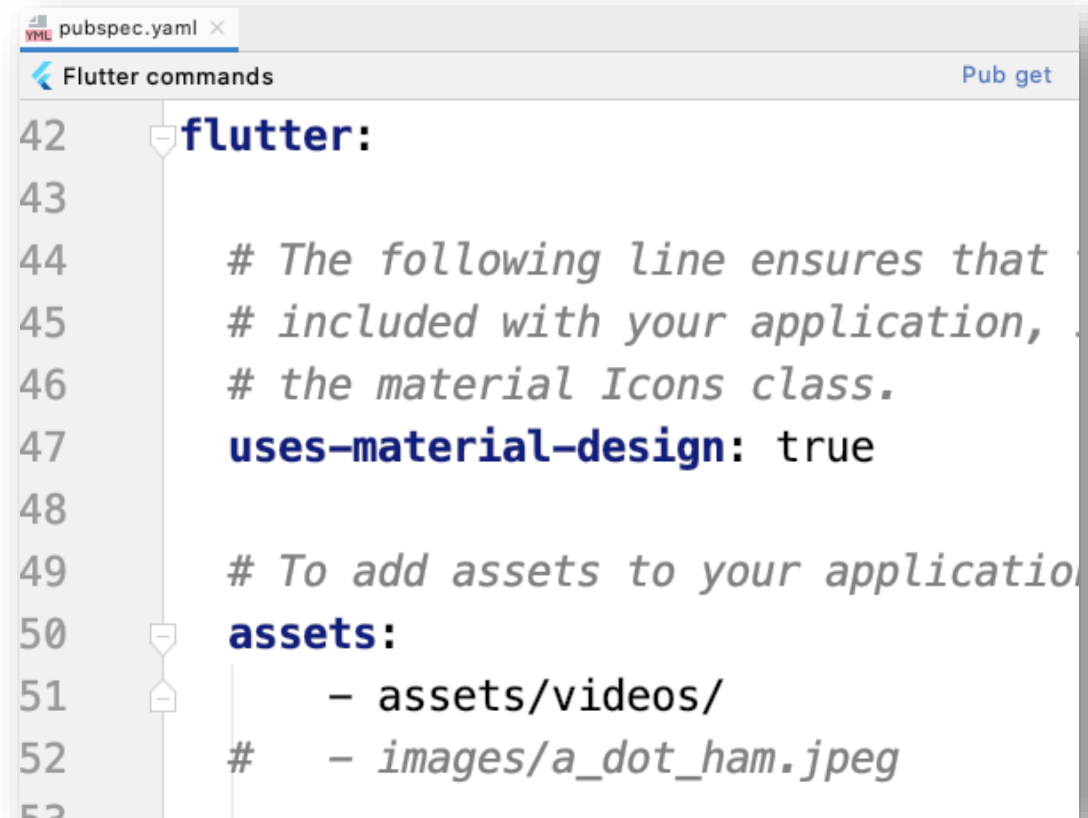
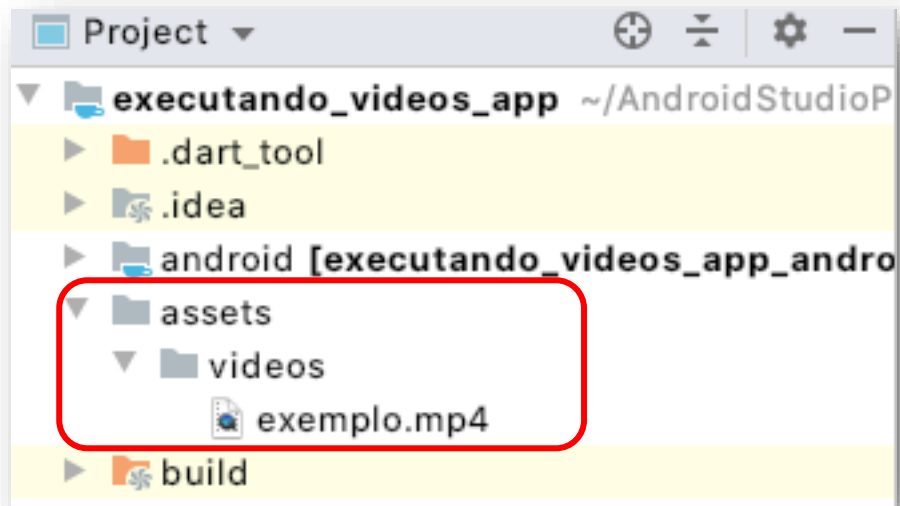
não será recuperado o retorno do
initialize usando dois pontos

then é usado para fazer mais algo
apos a inicialização do vídeo, e
usamos o underline, pois não
iremos passar nenhum parâmetro

Executando vídeos com URL

```
@override
Widget build(BuildContext context) {
  return Scaffold(
    body: Center(
      child: AspectRatio(
        aspectRatio: _videocontroller.value.aspectRatio,
        child: VideoPlayer(_videocontroller),
      ), // AspectRatio
    ), // Center
  ); // Scaffold
}
```

Executando vídeos com arquivo MP4

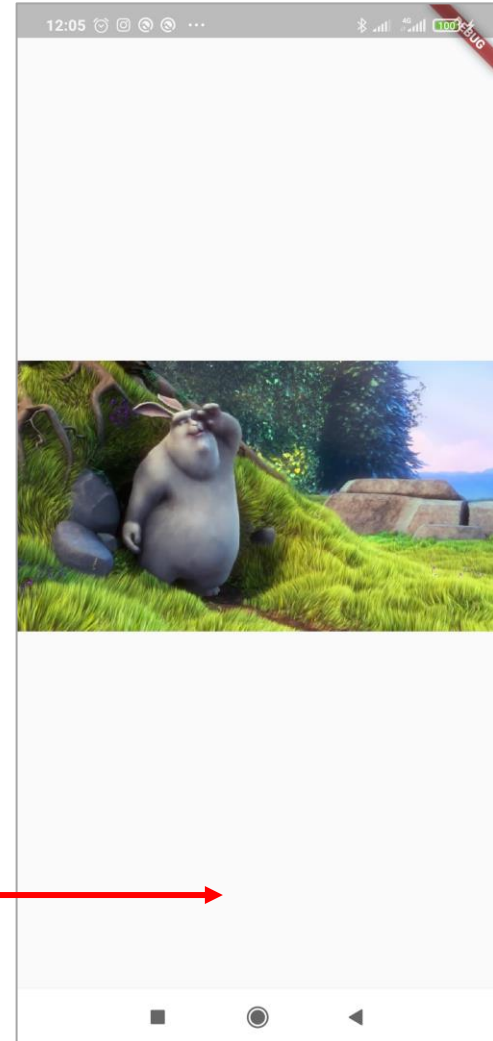
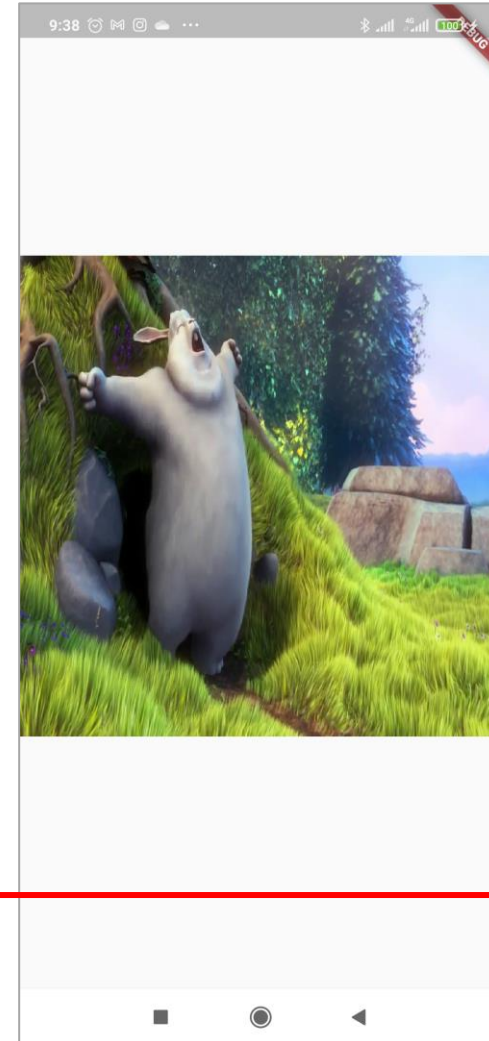


Exemplo - Executando vídeos com arquivo MP4

```
class _HomeState extends State<Home> {  
  VideoPlayerController _videocontroller;  
  
  @override  
  void initState() {  
    super.initState();  
    _videocontroller = VideoPlayerController.asset(  
      "assets/videos/exemplo.mp4"  
    )  
    ..setLooping(true)  
    ..initialize().then((_) {  
      _videocontroller.play();  
    });  
  }  
}
```

Exemplo - Executando vídeos com arquivo MP4

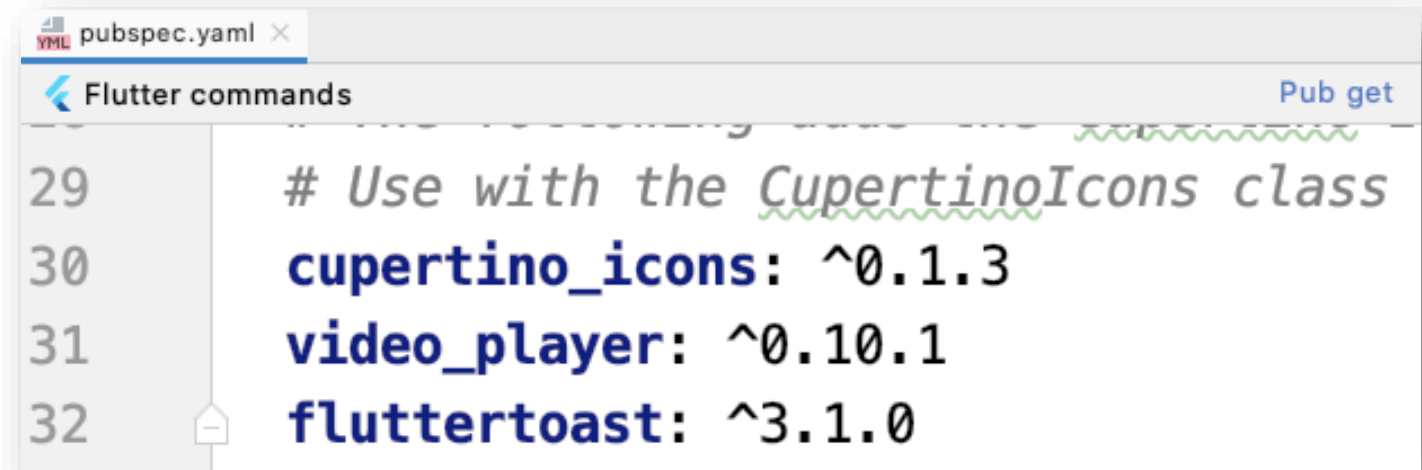
```
@override
Widget build(BuildContext context) {
  return Scaffold(
    body: Center(
      child: AspectRatio(
        aspectRatio: _videocontroller.value.aspectRatio,
        child: VideoPlayer(_videocontroller),
      ), // AspectRatio
    ), // Center
  ); // Scaffold
}
```



Erro - Compilação Javac

Erro:

“Execution failed for task 'fluttertoast:compileDebugJavaWithJavac'”



The screenshot shows a code editor window titled 'pubspec.yaml'. The editor has a 'Flutter commands' toolbar and a 'Pub get' button. The code content is as follows:

```
29      # Use with the CupertinoIcons class
30      cupertino_icons: ^0.1.3
31      video_player: ^0.10.1
32      fluttertoast: ^3.1.0
```

Referências Bibliográficas

- Curso da Udemy – **Flutter Essencial** do professor Ricardo Lecheta.
- Curso da Udemy - **Desenvolvimento Android e IOS com Flutter 2020 – Crie 15 Apps** do professor Jamilton Damasceno.
- <https://www.soundhelix.com/audio-examples>
- <https://sample-videos.com/index.php#sample-mp4-video>