

# Flutter 101



# Bonacina Alberto

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By day...

- Ingegnere del Software
- Backend Developer
- Flutter Developer



By night...

- Flutter Enthusiast
- Free Software Activist
- Linux User

e voi? 🤔

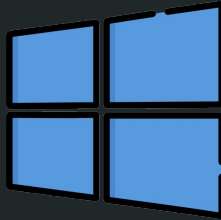
# Facciamo il punto

Mobile	Applicazione	Multiplatforma
Classe	Tipo	Libreria
Open Source	Responsive	Adaptive



Framework **open source** di Google per la creazione di  
**applicazioni multiplatforma** compilate in codice  
**nativo** da un'unica base di codice

# Applicazioni multiplatforma

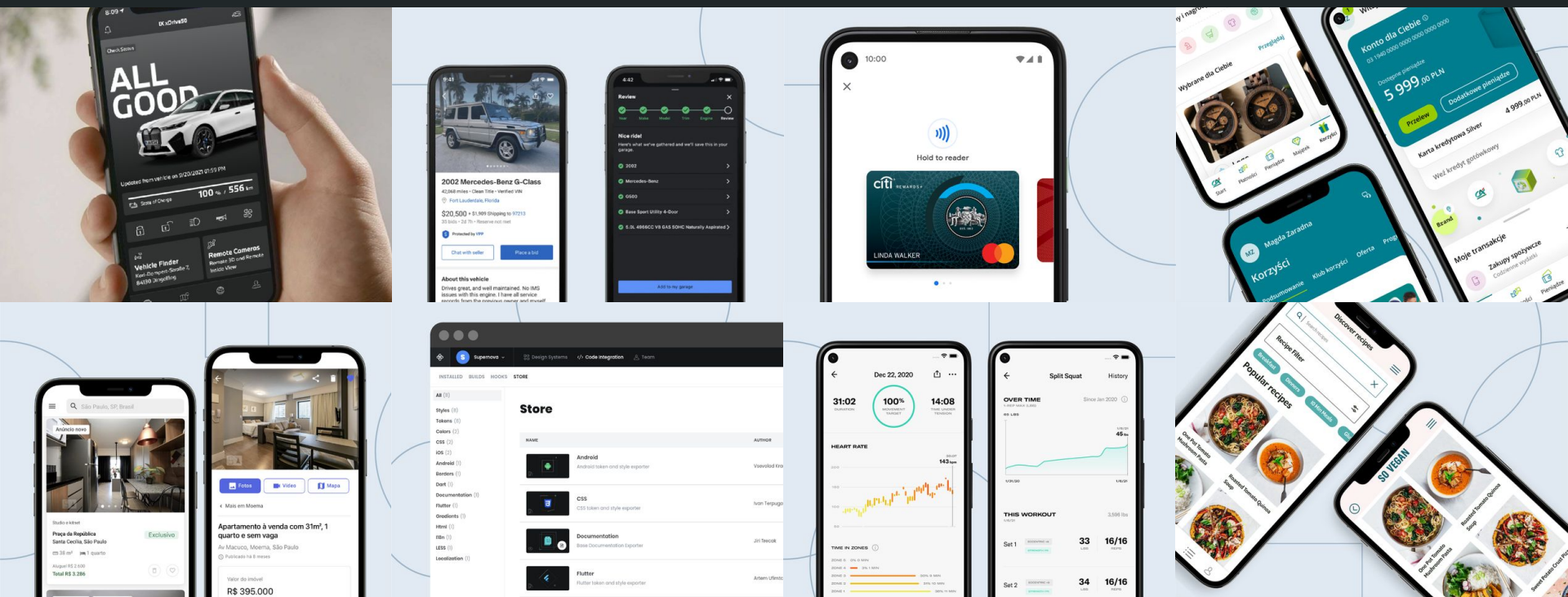


# Challenge di sviluppo

- **Molteplici** linguaggi di programmazione
- Implementazione nuove funzionalità
- **Allineamento** funzionalità
- **Coordinamento** tra team
- Risoluzione **bug**
- **Assistenza**

# Chi lo usa?

BMW, Google Pay, Alibaba, eBay, Toyota...



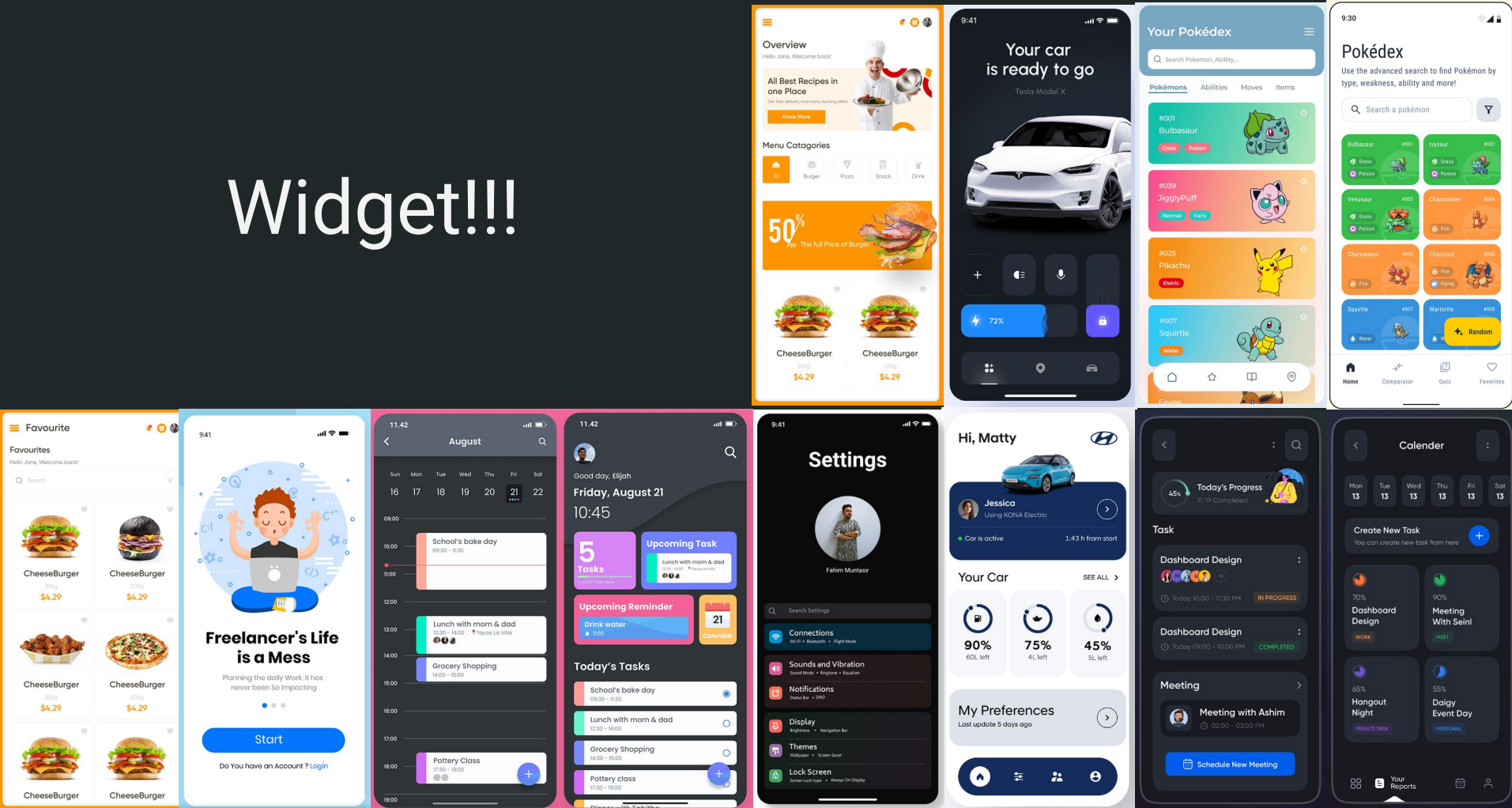


# Parole chiave: **Widget**

- **Tutto** è un widget
- **Componibili**
- **Estendibili**
- Più di **215** widget



# Widget!!!



Parole chiave: **Hot Reload** 🧙



# Parole chiave: Dart 🧐

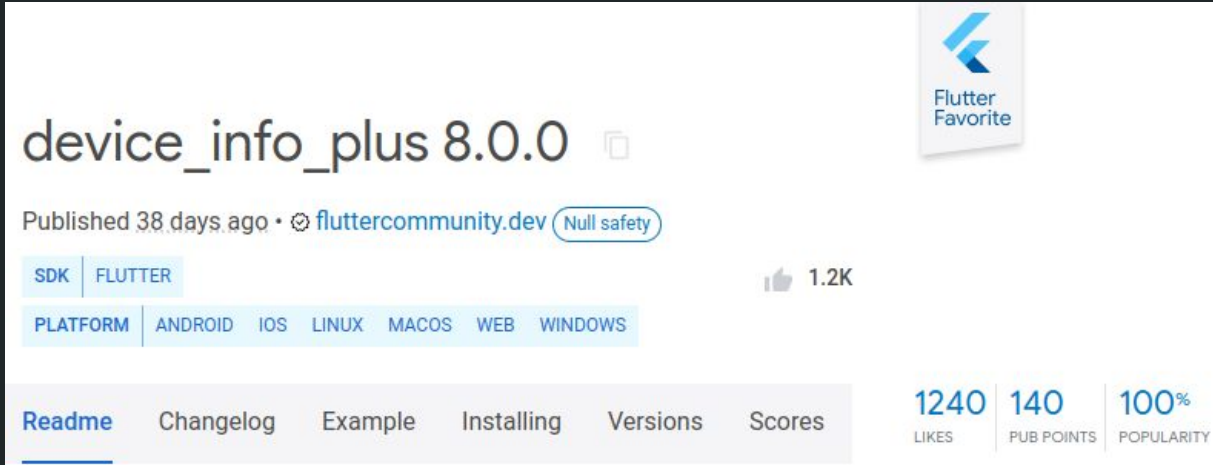
- Linguaggio tipizzato ad oggetti
- Compila per ARM, x64 e JavaScript
- Ereditarietà, Interfaccia
- Null Safe
- Async-Await

```
class Animal {  
  
    String name;  
    int legs;  
    bool canFly;  
  
    Animal({required this.name,  
           required this.legs,  
           this.canFly = false});  
}
```

```
void main() {  
  
    List<Animal> animals = [  
        Animal(name: "Lion", legs: 4),  
        Animal(name: "Penguin", legs: 2),  
        Animal(name: "Eagle", legs: 2, canFly: true),  
    ];  
  
    for (Animal animal in animals) {  
        print('I\'m a ${animal.name}, ' +  
              'I\'ve got ${animal.legs} legs' +  
              ' and I ${animal.canFly ? "can" : "cannot"} fly');  
    }  
}
```

# Parole chiave: **Package**

- Estendere le funzionalità
- **Pub.dev**
- **Flutter Favourite**
- Piattaforme supportate



The screenshot shows the Flutter pub.dev page for the `device_info_plus` package, version 8.0.0. The page includes the Flutter logo, the package name and version, the publisher `fluttercommunity.dev`, and a "Null safety" badge. It also features a "Flutter Favorite" badge, a thumbs up icon with "1.2K" likes, and a navigation bar with tabs for SDK, FLUTTER, PLATFORM, ANDROID, IOS, LINUX, MACOS, WEB, and WINDOWS. At the bottom, there are links for Readme, Changelog, Example, Installing, Versions, and Scores. On the right, statistics are displayed: 1240 Likes, 140 Pub Points, and 100% Popularity.

device\_info\_plus 8.0.0

Published 38 days ago • fluttercommunity.dev (Null safety)

Flutter Favorite

1.2K

SDK | FLUTTER

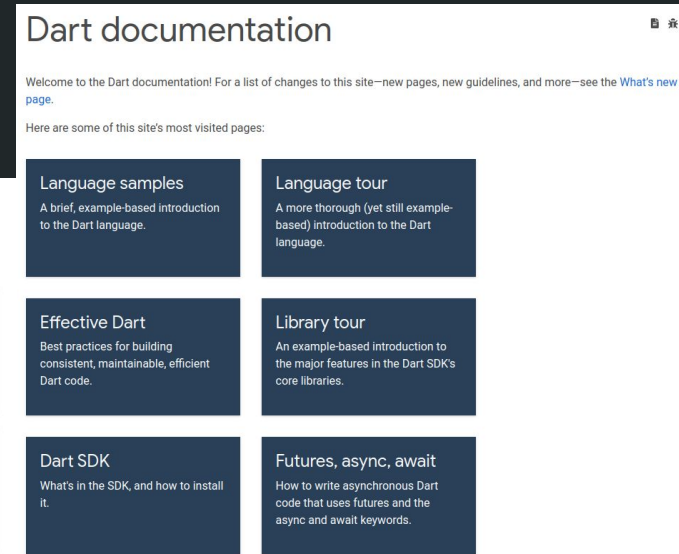
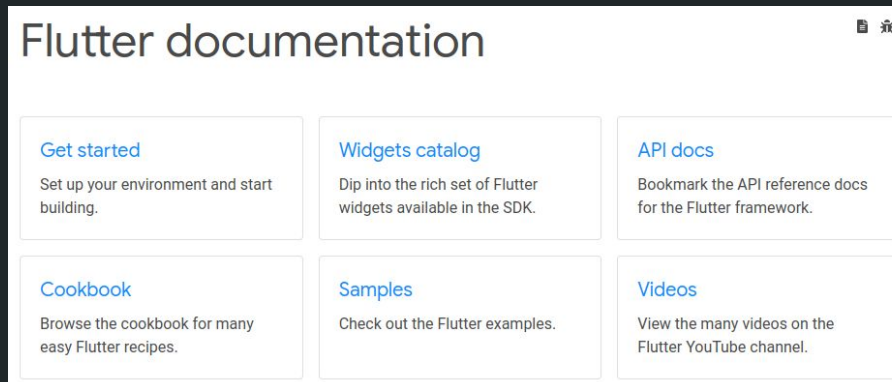
PLATFORM | ANDROID | IOS | LINUX | MACOS | WEB | WINDOWS

Readme | Changelog | Example | Installing | Versions | Scores

1240 LIKES | 140 PUB POINTS | 100% POPULARITY

# Parole chiave: Documentazione 🥰

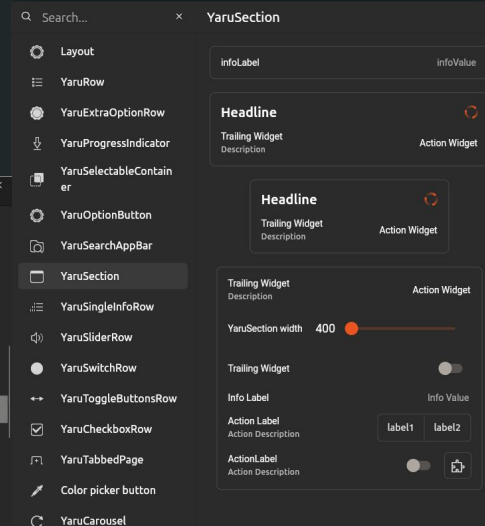
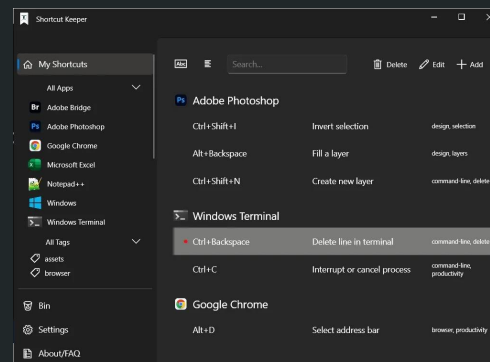
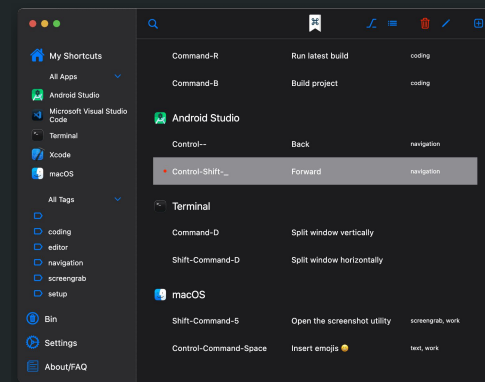
- Getting Started, Layouts, Animazioni, Navigazione e Routing
- Catalogo Widget
- Pubblicazione Store
- Codelabs
- DartPad - Zapp!





# Parole chiave: **Adaptive e Responsive** 🦄

- **Adaptive**: adattarsi allo stile e alle aspettative degli utenti di una piattaforma specifica
- **Responsive**: la disposizione degli elementi cambia in base alle dimensioni o all'orientamento dello schermo



Parole chiave: **IDE** 



Visual Studio Code



Android Studio



IntelliJ IDEA



Editor + Terminale



Domande? 🙏



Stop talking!  
Show me the code



[albertobonacina.com](http://albertobonacina.com)



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