## Async

Function in Dart can either produce no value, or a value synchronously, or a value asynchronously. An asynchronous function is a function that goes off and does work and comes back later producing a value, or even void. The "async" keyword in Dart is a way to mark up a function as an asynchronous function, meaning that the function doesn't completely immediately upon being invoked.

## Further reading:

- · Asynchronous programming: futures, async, await dart.dev
- dart:async library dart.dev
- Asynchronous programming: Streams dart.dev
- · Exploring Async Programming In Dart & Flutter medium.com
- Dart's async/await in Flutter Educative.io



## Examples

```
2 // it we are allowed to use the "await" keyword in order to
   // wait on the result of other functions marked with "async"
3
   Future<int> fetchStatusCode(String urlStr) async {
     final url = Uri.parse(urlStr);
5
     // for instance the "getUrl" function is an async function
6
     // that we can "await" on since our function itself is
7
     // marked as "async"
8
     final getResult = await HttpClient().getUrl(url);
9
     // smae for the close() function, it's async so we can
10
     // await on it since we are an async function too
11
12
     final result = await getResult.close();
     return result.statusCode:
13
14
```