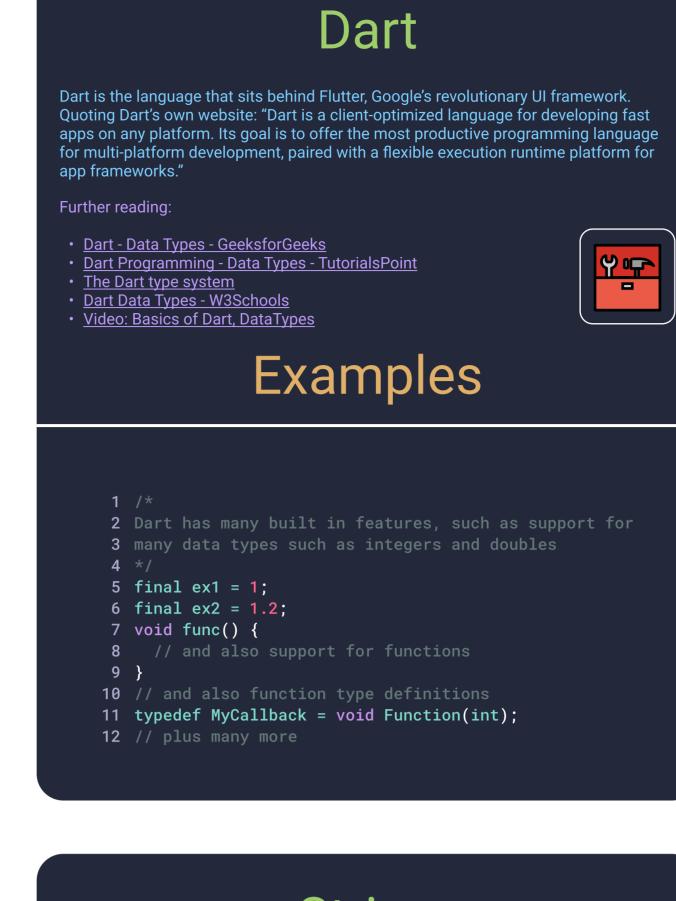
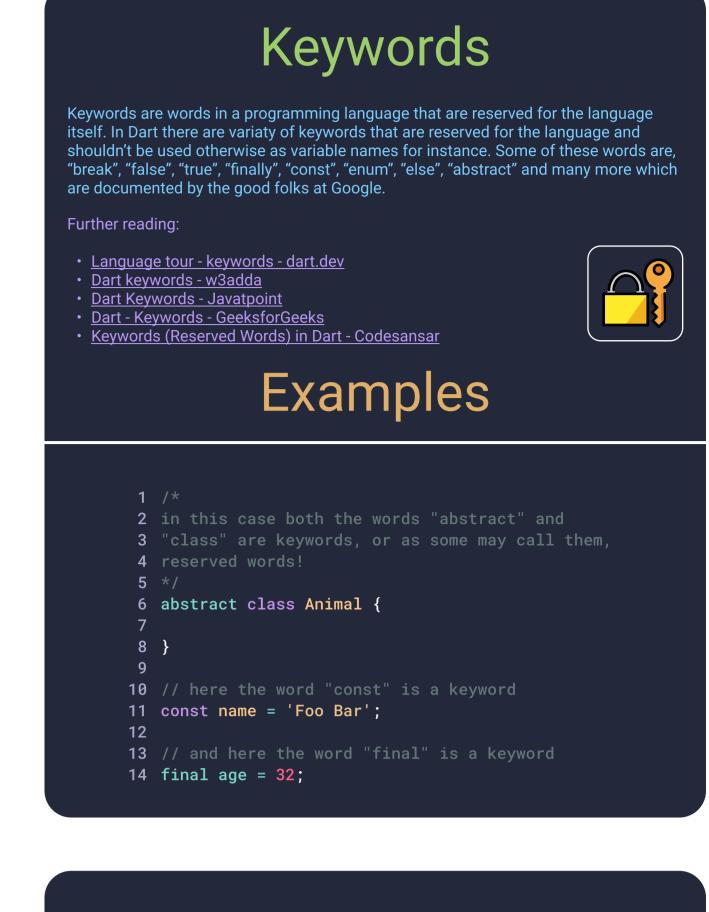


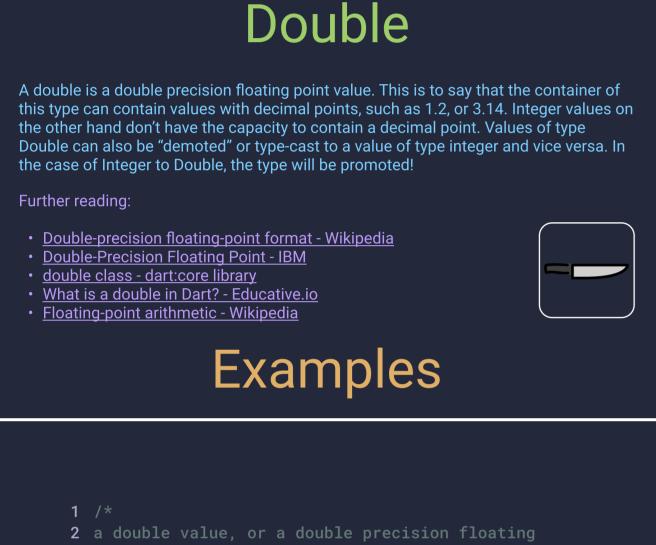
```
Variables
A variable is a named piece of information with a data type, that contains data in the
memory, be it in the stack or in the heap. Variables usually have a name and a data
type and they either contain a value or not (optionality). There are naming conventions
for variables and other rules as to what data they can be assigned to based on their
More info:
 • <u>Dart Programming - Variables - Tutorialspoint</u>
 · Dart Variables - W3Schools

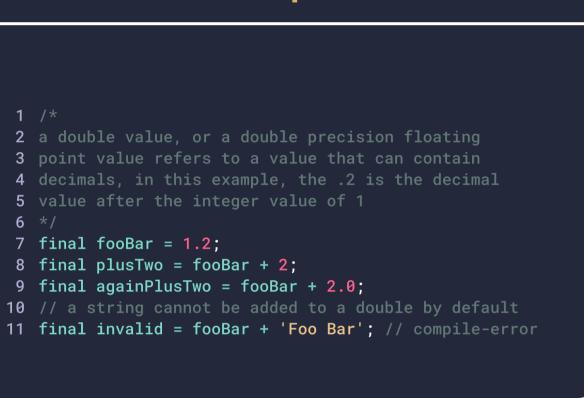
    Variables and types in Dart - Suragch

 • <u>Dart - Variables - GeeksforGeeks</u>
 • <u>Dart Variables - TutorialKart</u>
                      Examples
      2 below are all examples of variables whose value can
      3 be changed at compile and run time
      4 */
      5 var foo = 10;
      6 foo = foo + 1; // add 1 to foo
      8 var bar = 'Bar';
      9 bar *= 2; // Bar becomes BarBar now
     11 var baz = 1.2;
     12 baz = baz + 3; // baz is now 4.2
```











Final

Final is a variable modifer that makes a variable assignable only once. Notice that final

Integer

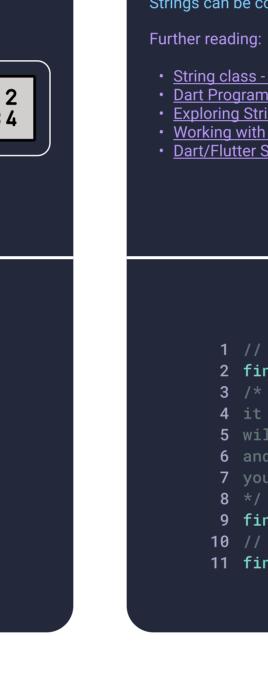
An integer is a value that can be described by a whole number, up to a limit, dictated by

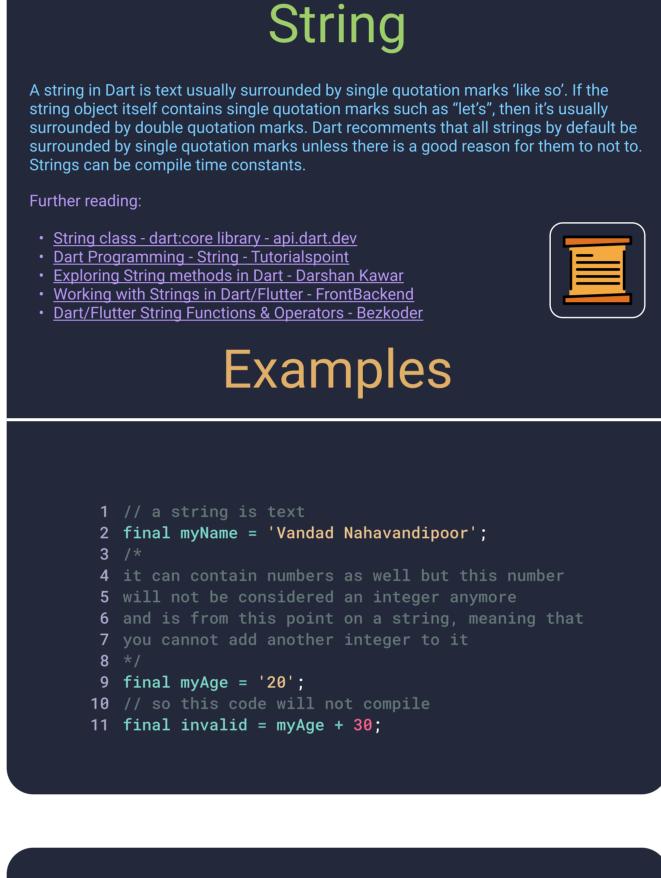
its container variable. An example of an integer is 1, 100, 1000, and so on. Integers can

be either signed or unsigned. A signed integer can be either positive or negative, while

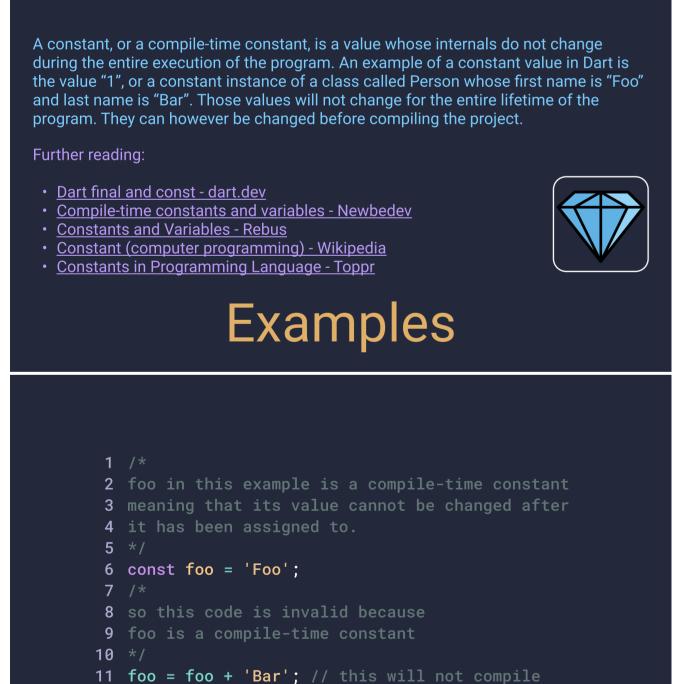
an unsigned integer can only contain positive values, from and including 0 up to the

limit dictated by the data type.



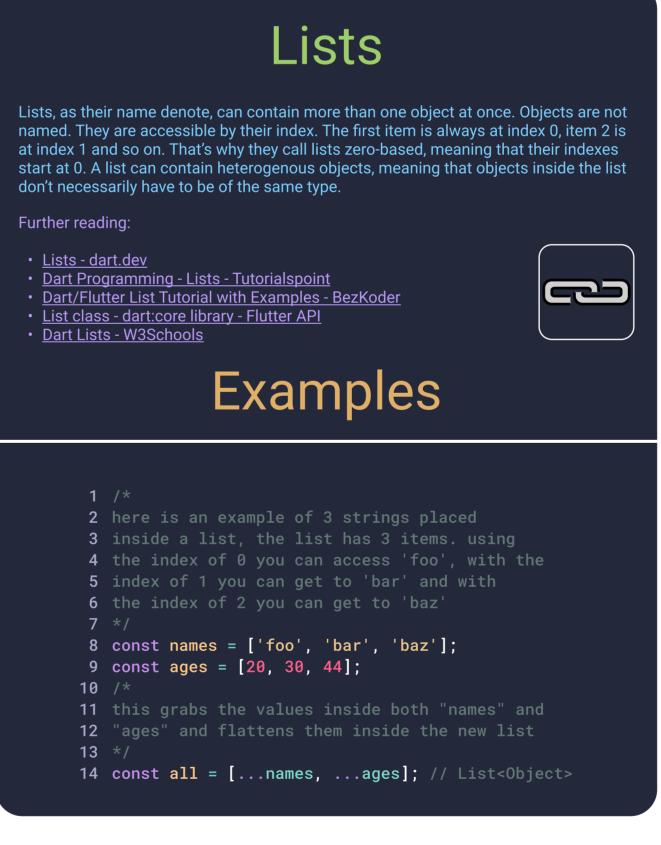






Constants





Arguments

information and context as how they should perform their tasks. An argument might

refer to that argument. An argument can optionally specify whether it is a required

argument or not. Required arguments are prefixed with the "required" keyword.

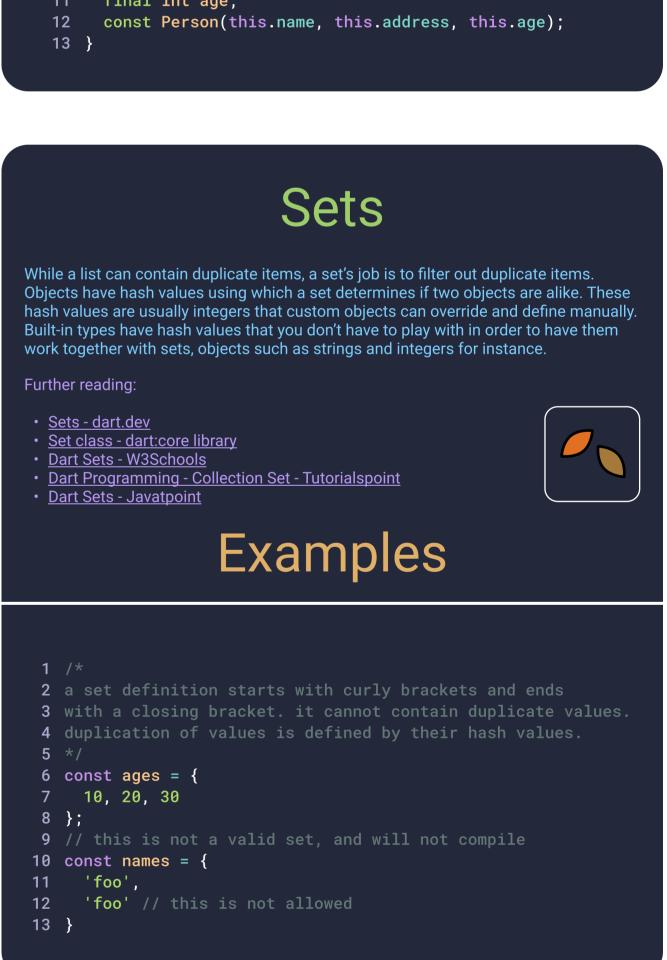
Further reading:

• parameters - dart.dev

• <u>Dart: Optional Function Parameters - Zaiste</u>

have a data type and must have a name that the function internally can use in order to

Arguments are values that are passed to functions in order to give them more



```
Maps
Maps are key value containers, meaning that for a value to be stored inside the map
you need to associate a key to it. The key is then used to retrieve the value. A map or
hash map or dictionary as it may be named in other languages is usually used to store
structured data. Keys of the map need to be hashable and unique. In Dart you can
retrieve a value by key, or just retrieve all the keys or all the values separately.
Further reading:

    maps - dart.dev

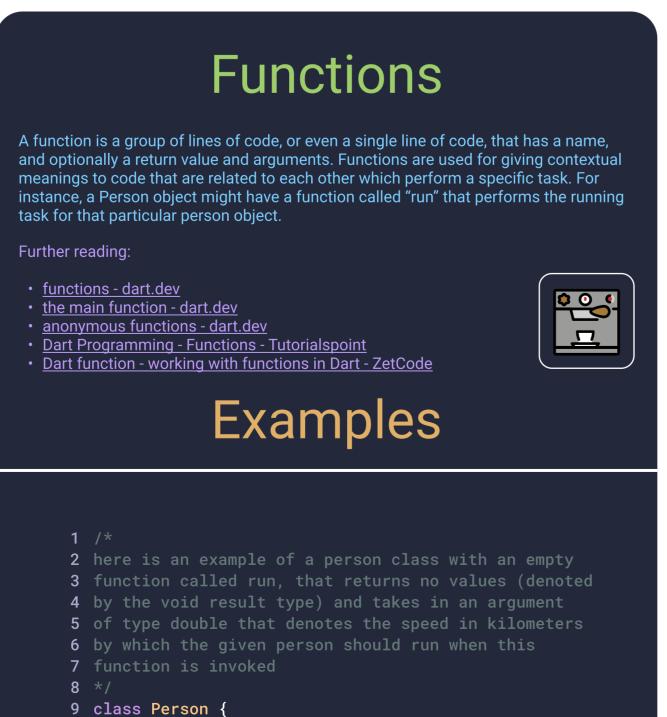
    Dart Programming - Map - Tutorialspoint

• Dart Map - zetcode.com

    Maps in dart - Jay Tillu

 • <u>Dart/Flutter Map, HashMap Tutorial - Bezkoder</u>
                      Examples
      2 personInfo in this case is a Map<Object, Object>
      3 where keys are of type Object and the values
       4 are of type Object as well.
       6 final personInfo = {
       7 'name': 'Foo bar',
      8 'age': 20,
      9 'address': 'dummy',
      10 10: 20,
      11 };
      12 // access the name out of personInfo with its key
```

13 final name = personInfo['name'];



10 void run(double speedInKilometers) {

12 }

13 }

// perform the running task here

