

Factory

Factory constructors are a way to enable a class to be initialized/constructed using logic that might not always return a new instance of the class, rather, it's a way for a class to make special calculations, such as returning an instance from a cache, or initializing instance variables of the class with given data, that cannot otherwise be done inside the constructor of the class.

Further reading:

- [Factory Constructors - dart.dev](https://dart.dev)
- [Factory Constructor in Dart - Medium](#)
- [Understanding Factory constructor code example - newbedev.com](https://newbedev.com)
- [Factory Constructor In Dart - learndartprogramming.com](https://learndartprogramming.com)
- [Exploring the 3 Types of Constructors in Dart - betterprogramming](#)



Examples

```
1 class Number {
2     // this factory method allows anybody to
3     // instantiate a Number class using an Object value
4     // but underneath, this factory constructor creates
5     // an instance of the Integer class should the
6     // given value be of type int
7     factory Number.from(Object value) {
8         if (value is int) {
9             return Integer(value);
10        } else { throw 'Invalid value'; }
11    }
12 }
13 class Integer implements Number {
14     const Integer(int value);
15 }
```