Dart

Functions

Functions

 Dart is a true object-oriented language, so even functions are objects and have a type, Function

```
bool isEven( int num) {
    return num % 2 == 0
}
```

```
isEven(num) {return num % 2 == 0}
```

bool isEven(int num) => num % 2 == 0

Optional parameters

- Optional named parameters
- Optional positional parameters
- @required const Scrollbar({ Key key, @required Widget child })
- more: https://nmrony.info/dart-optional-parameters/

Function as a parameter

```
    var list = [1, 2, 3];
list.forEach(printElement);
    printElement(int element) {
        print(element);
        }
```

Function as variable

```
    var loudly = (msg) => '${msg.toUpperCase()}';
    assert( loudly('hello') == 'HELLO');
```

Anonymous functions

 a nameless function called an anonymous function, or sometimes a lambda or closure

```
([[Type] param1[, ...]]) {
    codeBlock;
};
var list = ['apples', 'bananas', 'oranges'];
    list.forEach(
    // item is an untyped parameter
    // this is a closure
        (item) {
            print('${list.indexOf(item): $item}');
        }
        );
```