

Basic Types

number

bool

string

any

Declarations

var x: any Basic declaration

var x: {a:any; x is an object
b:any};

var x: Foo; x is instance of class
 Foo

Parameters

x:any Basic parameter

x:() => string Function that returns
string.

x:{a:any;- Object that contains a and
b:b:any};

x:Foo Object that is a class of
Foo

x?:any Optional parameter

Function

```
function a(x:bool);
```

```
function a(x:number);
```

```
function a(x:any):bool{  
    return x%2 == 0;  
}
```

```
a(2);
```

Basic Class

```
class Goose{  
    a:number;  
    private b:bool;  
    constructor(x: number, y:bool = true){  
        this.a = x;  
        this.b = y;  
    }  
}  
  
var x: Goose = new Goose(50);
```

Class Inheritance

```
class Suzy extends Goose{  
    constructor(public c: string){  
        super(0, true);  
    }  
}  
  
var y: Suzy = new Suzy("foo");  
console.log(y.c + " | " + y.a);  
var z: Goose = new Suzy("bar")
```

Interface Example

```
interface Foo{  
    a(b:number):bool;  
}  
  
class Bar implements Foo{  
    a(b:number){  
        return false;  
    }  
}  
  
var x:Foo = new Bar();
```

Function Explanation

Overload functions with bool and number.
Create new function that takes a number x and returns a bool.
Execute function.

Class Explanation

Create a new class.
Public attribute.
Private attribute.
constructor with attributes x and y
y is optional and defaulted to true.
Instantiate with x as 50 and use default for y

Inheritance Explanation

New class that extends Goose
constructor. creates a public var c
calls inherited constructor.
New instance of the class.
Accessing public attribute c and a.
Making a new Goose using class Suzy.

Interface Explanation

Create a new Interface
Which much have function a
Create a new class that implement Foo
Implement everything in Foo
Create a new instance of type Foo



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