

# TypeScript Cheat Sheet

by Greg Finzer (GregFinzer) via cheatography.com/15280/cs/10814/

interface IGPS {

hasGps: boolean;

elevation: number) {

getLocation(): number {

Inheritance and Implementing Interfaces

Types		
String	let customerName: string= "John Doe";	
Number	let price: number = 19.95;	
Boolean	let shipped: boolean = false;	
Date	let orderDate: Date = new Date(2017, 2, 9);	
Any	let something: any = "Can be anything";	
Enum	enum Color {Red, Green, Blue};	
Array	let cards: string[] = ['Visa', 'MasterCard'];	
Null	let orderld: number = null;	
Tuple	let stateTaxRates: [string, number];	
Void	<pre>function log(msg: string): void {   console.log(msg); }</pre>	
Const	const lives: number = 99;	

# Classes

```
class OrderLogic {
   constructor(public order: IOrder) { }
   getOrderTotal(): number {
      let sum: number = 0;
      for (let orderDetail of
   this.order.orderDetails)
      {
       sum += orderDetail.price;
      }
      return sum;
   }
```

## **Abstract Classes**

```
abstract class Person {
  name: string;
  monthlySalary: number;
  monthlyBenefits: number;
  abstract calcSalary(): number;
}
```

# getLocation() number; } interface ISelfDrive extends IGPS { drive(latitude: number, longitude: number, elevation: number) : void; } class Vehicle { make: string; model: string; year: number;

class FlyingCar extends Vehicle implements ISelfDrive

drive(latitude: number, longitude: number,

Usage			
Installing TypeScript npm	npm install -g typescript		
Compiling TypeScript	tsc somefile.ts		
TypeScript Docs	TypeScriptLang.org		
Type Definition Files	DefinatelyTyped.org		

Scope/Modifiers		
public firstName: string;		
protected inventory: number;		
private outOfStock: boolean;		
readonly pi: number = 3.14159;		
static log(msg: string) { console.log(msg) };		



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## Interfaces

```
interface IOrderDetail {
  productName: string;
  quantity: number;
  price: number;
  orderDate: Date;
  shipped: boolean;
  //Optional
  outOfStock?: boolean;
  //Method
  calcTax: (taxRate: number) => number;
}
```

# **Optional Parameters**

```
class Util {
  log(msg: string, logDate?: Date) {
   if (logDate)
     console.log(logDate + ' ' + msg);
  else
     console.log(new Date() + ' ' + msg);
}
```

# **Rest Parameters**

```
class Order {
  addOrderDetails(...orderDetails: IOrderDetail[]) {
  }
}
```

# Namespaces

```
namespace AcmeCorp.Logging {
    export class Logger {
        static log(msg: string) : void {
            console.log(msg);
        };
    }
}

/// <reference path="AcmeCorp.Logging.ts" />
//Alias
import logger = AcmeCorp.Logging.Logger;
namespace AcmeCorp.OnlineStore {
    class OrderLogic {
        calcOrder(): number {
            logger.log("calculating order");
            return 0;
        }
    }
}
```



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