

TypeScript Cheat Sheet

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

Inheritance and Implementing Interfaces

hasGps: boolean;

elevation: number) {

getLocation(): number {

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;
}
```

```
interface IGPS {
   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
```

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

drive(latitude: number, longitude: number,

Scope/Modifiers	
Public (default)	public firstName: string;
Protected	protected inventory: number;
Private	private outOfStock: boolean;
Read Only	readonly pi: number = 3.14159;
Static	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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