

TypeScript Cheat Sheet

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

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 {

Inheritance and Implementing Interfaces

```
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
{
    hasGps: boolean;
    drive(latitude: number, longitude: number,
    elevation: number) {
    }
    getLocation(): 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 (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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