Cheatography

# 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 orderId: number = null; |
| Tuple | let stateTaxRates: [string, number]; |
| Void | function log(msg: string): void {<br>console.log(msg);<br>} |
| Const | const lives: number = 99; |

## Classes

```
class OrderLogic {
        con str uct or( public order: IOrder) { }
        get Ord erT otal(): number {
               let sum: number = 0;
               for (let orderD etail of this.o -
rde r.o rde rDe tails)
               {
                       sum += orderD eta il.p rice;
               }
                return sum;
       }
}
```

## Abstract Classes

```
abstract class Person {
    name: string;
    mon thl ySa lary: number;
    mon thl yBe nefits: number;
    abs tract calcSa lary(): number;
}
```

## Inheritance and Implementing Interfaces

```
interface IGPS {
    get Loc ation() number;
}
interface ISelfDrive extends IGPS {
    dri ve( lat itude: number, longitude: number,
elevation: number) : void;
}
class Vehicle {
    make: string;
    model: string;
    year: number;
}
class FlyingCar extends Vehicle implements
ISelfDrive {
      hasGps: boolean;
    dri ve( lat itude: number, longitude: number,
elevation: number) {
   }
    get Loc ati on(): 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 {
    pro duc tName: string;
    qua ntity: number;
    price: number;
    ord erDate: Date;
    shi pped: boolean;
    //O ptional
    out OfS tock?: boolean;
    //M ethod
    cal cTax: (taxRate: number) => number;
}
```

## Optional Parameters

```
class Util {
    log (msg: string, logDate?: Date) {
       if (logDate)
            con sol e.l og( logDate + ' ' + msg);
       else
            con sol e.l og(new Date() + ' ' + msg);
   }
}
```

## Rest Parameters

```
class Order {
    add Ord erD eta ils (...or der Det ails:
IOrder Det ail[]) {
   }
}
```

## Namespaces

```
namespace AcmeCorp.Logging {
    export class Logger {
               static log(msg: string) : void {
                 con sol e.l og( msg);
           };
   }
}
/// <re ference path="A cme Cor p.L ogg ing.ts " />
//Alias
import logger = AcmeCo rp.L og gin g.L ogger;
namespace AcmeCo rp.O nl ine Store {
    class OrderLogic {
        cal cOr der(): number {
                log ger.lo g("c alc ulating
order");
                return 0;
       }
   }
}
```



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