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 {
	console.log(msg);
	}

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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