String string (including ES6 multiline string templates) Number number Boolean boolean object (may object be an Object or nonprimitive) Named types (interface, class, enum) Interface interface Child extends Parent, SomeClass { property: Type; optionalProp?: Type; optionalMethod?(arg1: Type): ReturnType; Class class Child extends Parent implements Child, OtherChild { property: Type; defaultProperty: Type = 'default value'; private _privateProperty: Type; private readonly privateReadonlyProperty: Type; static staticProperty: Type; constructor(arg1: Type) { super(arg1); private _privateMethod(): Type {} methodProperty: (arg1: Type) => ReturnType; overloadedMethod(arg1: Type): ReturnType; overloadedMethod(arg1: OtherType): ReturnType; overloadedMethod(arg1: CommonT): CommonReturnT {} static staticMethod(): ReturnType {} subclassedMethod(arg1: Type): ReturnType { super.subclassedMethod(arg1); } } Enum enum Options { FIRST, EXPLICIT = 1,BOOLEAN = Options.FIRST |

Options.EXPLICIT

Red = "#FF0000",

Blue = #0000 FF

{ foo; bar; }

Type; }

string;

& Bar;

functions that Array<() => string>

Type; } Or

Type;

} or

string[] Or

Array<string>

{ (): string; }[] Or

let myTuple: [string,

myTuple = ['test', 42];

{ (arg1: Type, argN: Type):

(arg1: Type, argN: Type) =>

{ new (): ConstructedType;

new () => ConstructedType;

...allOtherArgs: Type[]) =>

{ (): Type; staticProp:

function fn(arg1: Type =

'default'): ReturnType {}

(arg1: Type): ReturnType =>

(arg1: Type): ReturnType =>

function fn(this: Foo)

<T>(items: T[], callback:

<T extends ConstrainedType>

<T extends ConstrainedType =

Partial<{ x: number; y:

number; z: number; }>

{ x?: number; y?: number;

Readonly<{ x: number; y:</pre>

number; z: number; }>

readonly x: number;

readonly y: number;

readonly z: number;

z: number; }, 'x' | 'y'>

{ x: number; y: number; }

{ x: number; y: number; z:

createLabel<T extends number

string>(idOrName: T): T

Exclude<string | number,

Extract<string | number,

NonNullable<string | number |

extends number ? Id : Name;

Pick<{ x: number; y: number;</pre>

is equivalent to

z?: number; }

is equivalent to

is equivalent to

Record<'x' 'y'

declare function

type Excluded =

is equivelant to

type Extracted =

string>;

number

string>;

string

void>;

is equivelant to

type NonNull =

is equivalent to

is equivalent to

type Instance =

is equivalent to

typeof varName

Is this cheat sheet missing anything? Let us

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Gettin' the gist

InstanceType<typeof</pre>

string

InstanceType class Renderer() {}

Renderer>;

Renderer

string | number

type ReturnValue =

ReturnType<() => string>;

is equivalent to

number>

number; }

}

(item: T) => T): T[]

(argl: Type, optional?:

Type) => ReturnType

(arg1: Type,

Type; }

{} or

Expression

Interface with interface Pair<T1, T2> {

}

(): T

and default ConstrainedType>(): T

first: T1;

second: T2;

number, boolean?];

Union and intersection types

Green = "#00FF00",

{ required: Type; optional?:

[key: string]: Type; }

let myUnionVariable: number

let myIntersectionType: Foo

enum Colors

}

}

Object type literals

Object with

implicit Any

properties

Object with

optional

property

Hash map

Union type

Intersection

Arrays and tuples

type

Array of

Array of

Tuples

Functions

Constructor

Function

type with

optional

Function

type with

Function

type with

property

Default

Arrow

function

this typing

Generics

Function

multiple

types

type

type

using type

parameters

Constrained

parameter

parameter

parameter

Partial type

Readonly

Pick type

Record type

Conditional types

Conditional

types

Exclude

Extract

NonNullable

ReturnType

Other

Type of a

variable

know.

2.

3.

type

sitepen

Constrained

argument

static

rest param ReturnType

param

Function

return strings

strings

TypeScript Cheat

Sheet

By Nick Nisi on November 6, 2018 6:45 am

TypeScript

JavaScript

TypeScript

Cheat Sheet

Usage

Primitive types

Any type

(explicitly

untyped)

void type

function

(undefined or

null, use for

returns only)

Undefined

Null type

never type

unknown

type

type

This cheat sheet is an adjunct to our

npm install typescript

Definitive TypeScript Guide.

Last updated for: TypeScript 3.1

tsc

any

void

undefined

null

never

unknown