

## TypeScript

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### Declaration, Assignment

```
var name:string = "John"  
var score1:number = 50  
var score2:number = 42.5
```

```
var x;  
var y = 'Hello'  
var string= new String("Hello World")
```

### String traversal, properties etc.

```
string.length eg, "Hello".length
```

```
string.charAt()  
string.indexOf()
```

### Array/Tuples

#### Homogenous

```
var alphas:string[];  
alphas = ["1","2","3","4"]
```

```
var nums:number[] = [1,2,3,3]
```

```
arr.length  
arr[index] = value
```

## Heterogenous

```
var tuple = [value1,value2,value3,...value n]  
Tuple[index] = value
```

## Loops

```
for(;;){  
}
```

```
while(condition){  
}
```

```
do{  
}while(condition)
```

## Return types

```
Number  
String  
Boolean  
Void  
Null  
Undefined
```