

Black & White Series

# Literals, Variables, and Constants

JavaScript for C or Java Programmers

# Atomic Literals

type	typical values	
boolean	true	false
number	15	7.82

# Strings

Basic string - two interchangeable options:

```
'basic string'  
"basic string"
```

One can use one inside the other:

```
console.log('The dinosaur "jumped into the mud"')
```

Output:

```
The dinosaur "jumped into the mud"
```

# Multiline String

```
`line 1  
line 2  
...`
```

Example:

```
console.log(`The dinosaur  
jumped into the mud`)
```

Output:

```
The dinosaur  
jumped into the mud
```

# Automatic/Manual Conversions

```
console.log('2' + 3)  
console.log(parseInt('2') + 3)  
console.log('2' * 3)  
console.log('x' - 3)
```

# Automatic/Manual Conversions

```
console.log('2' + 3)
console.log(parseInt('2') + 3)
console.log('2' * 3)
console.log('x' - 3)
```

```
23
5
6
nan
```

- NaN - usual output for wrong expressions

# Variable/Constant Declaration

```
<let/const/var> <name1> = <init1>, ..., <namen> = <initn>
```

- **let** - a variable in a scope
  - equivalent behavior to C variables
- **const** - a constant in a scope
- **var** - old fashion variable declaration
  - rules for scope different from **let**
  - not recommended in general

# Example

```
let price = 20, fees = 5  
const pi = 3.1416
```

```
price += fee // right  
pi = 3.14 // error
```



# References

- Mozilla MDN - <https://developer.mozilla.org>
- Eloquent JavaScript - <https://eloquentjavascript.net/>

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