

极客大学 前端进阶训练营

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前手机淘宝前端负责人

重学前端

JavaScript

JavaScript

- Atom
- Expression
- Statement
- Structure
- Program/Module

Atom

Grammar

- Grammar Tree vs Priority
- Left hand side & Right hand side

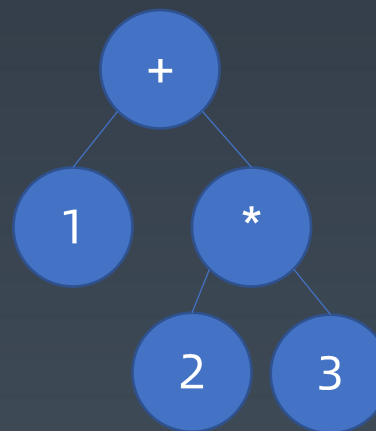
Runtime

- Type Conversion

Grammar

- Tree vs Priority

- + -
- * /
- ()



1 + 2 * 3

Expressions

- Member

- a.b
- a[b]
- foo`string`
- super.b
- super['b']
- new.target
- new Foo()

- New

- new Foo

Example:

```
new a()()  
new new a()
```

Expressions

- Call
 - `foo()`
 - `super()`
 - `foo()['b']`
 - `foo().b`

Example:
`new a()['b']`

Expressions

- Left Handside & Right Handside

Example:

$a.b = c;$

$a+b = c$

Expressions

- Update

- `a ++`
- `a --`
- `-- a`
- `++ a`

Example:

```
++ a ++  
++ (a ++)
```

Expressions

- Update

- `a ++`
- `a --`
- `-- a`
- `++ a`

Example:

```
++ a ++  
++ (a ++)
```

Expressions

- Unary
 - delete a.b
 - void foo()
 - typeof a
 - + a
 - - a
 - ~ a
 - ! a
 - await a

Expressions

- Exponential
 - **

Example:

`3 ** 2 ** 3`

`3 ** (2 ** 3)`

Expressions

- Multiplicative
 - * / %
- Additive
 - + -
- Shift
 - << >> >>>
- Relationship
 - < > <= >= instanceof in

Expressions

- Equality
 - ==
 - !=
 - ===
 - !==
- Bitwise
 - & ^ |

Expressions

- Logical
 - &&
 - ||
- Conditional
 - ? :

Type Conversion

| | Number | String | Boolean | Undefined | Null | Object | Symbol |
|-----------|-------------------|---------------------|----------|-----------|------|--------|--------|
| Number | - | | 0 false | × | × | Boxing | × |
| String | | - | "" false | × | × | Boxing | × |
| Boolean | true 1 false 0 | 'true' 'false' | - | × | × | Boxing | × |
| Undefined | 0 | 'Undefined' | false | - | × | × | × |
| Null | 0 | 'null' | false | × | - | × | × |
| Object | valueOf | valueOf toString | true | × | × | - | × |
| Symbol | × | × | × | × | × | Boxing | - |

THANKS! |  极客大学