JS Language Specification

JS Objects

Strict Mode:

* **Reseverd Word Promotions:**implements, interface, let, package, private, protected, public, static, yield
* Restricted Productions:
  + NumericLiteral::LegacyOctalIntegerLiteral
  + DecimalIntegerLiteral::NonOctalDecimalIntegerLiteral  
    become restricted
* Global Object Resrictions:
  + Undeclared or unresolvable references are not created in the GO
  + Data Properties that are unwritable, accessor properties that are undefined, non-existent properties were the [[Extensible]] internal slot is false

# Type System

JS Types

* Undefined
* Null
* Boolean
* String
* Symbol
* Number
* BigInt
* Object

String

UTF-16 code unit value

Symbol

# Grammar Productions

* Reserved Words:
  + await
  + break
  + case
  + catch
  + class
  + const
  + continue
  + debugger
  + default
  + delete
  + do
  + else
  + enum
  + export
  + extends
  + false
  + finally
  + for
  + function
  + if
  + import
  + in
  + instanceof
  + new
  + null
  + return
  + super
  + switch
  + this
  + throw
  + true
  + try
  + typeof
  + var
  + void
  + while
  + with
  + yield
* Future Reserved Words:
  + enum
  + implements
  + interface
  + package
  + private
  + protected
  + public
* Punctuator ::
  + OptionalChainingPunctuator
  + OtherPunctuator
  + DivPunctuator
  + RightBracePunctuator
* CommonToken ::
  + IdentifierName
  + PrivateIdentifier
  + Punctuator
  + NumericLiteral
  + StringLiteral
  + Template

DivPunctuator, RegularExpressionLiteral, RightBracePunctuator, and

TemplateSubstitutionTail productions derive additional tokens that are not included

in the CommonToken production.

* NullLiteral
* BooleanLiteral
* NumericLiteralSeparator
* NumericLiteral ::
  + DecimalLiteral
  + DecimalBigIntegerLiteral
  + NonDecimalIntegerLiteral[+Sep]
  + NonDecimalIntegerLiteral[+Sep] BigIntLiteralSuffix
  + LegacyOctalIntegerLiteral

# Resources

## YouTube

TypeScript Origins: The Documentary

<https://www.youtube.com/watch?v=U6s2pdxebSo>