# BASICS JAVASCRIPT

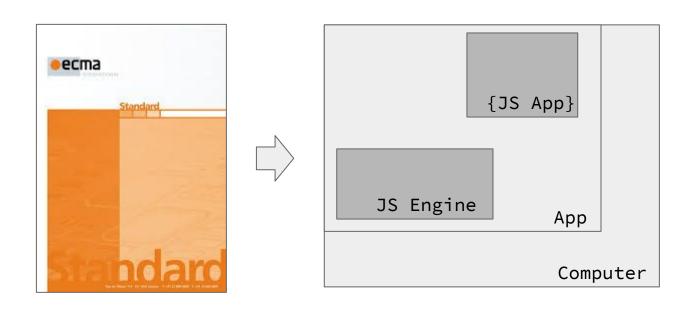
# OBJECTIVES

- Review Basics JavaScript
- Review Basics JavaScript First Release

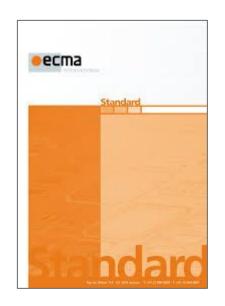
#### DEFINITION

- ECMA is a standards organization for information and communication systems
- ECMAScript specification is an ECMA standardized specification of a scripting language
- ECMAScript engine is a computer program that executes ECMAScript code
- JavaScript engine is an ECMAScript engine that executes JavaScript code
- JavaScript is a programming language that conforms to the ECMAScript specification

# DEFINITION



### EXAMPLES

















#### OVERVIEW 1997 - 2020

- 1997: First release ECMAScript language specification by Netscape (version 1)
- 1998: Editorial changes aligned with ISO/IEC 16262 international standard (version 2)
- 1999: regular expr., better string handling, try/catch excp handling (version 3)
- 2003: abandoned due to differences concerning language complexity (version 4)
- 2009: Adds "strict mode," to provide more thorough error checking (version 5)
- 2015: import \*, for...of, let local declarations, arguments, promises (version 6)
- 2016: await, async keywords for asynchronous programming (version 7)
- 2017: functions for easy manipulation of Objects (version 8)
- 2018: Spread operator for easy copying of object properties let obj1 = {c: 3, ...obj2}
- 2019: Array.sort, Array.flat, Array.flatMap (version 10)
- 2020: BigInt primitive, const zipcode = person?.address?.zipcode (version 11)

# JAVASCRIPT FIRST RELEASE

- 1997: First release ECMAScript language specification by Netscape (version 1)
- 1998: Editorial changes aligned with ISO/IEC 16262 international standard (version 2)
- 1999: regular expr., better string handling, try/catch excp handling (version 3)
- 2003: abandoned due to differences concerning language complexity (version 4)
- 2009: Adds "strict mode," to provide more thorough error checking (version 5)
- 2015: import \*, for...of, let keyword for local declarations, promises (version 6)
- 2016: await, async keywords for asynchronous programming (version 7)
- 2017: functions for easy manipulation of Objects (version 8)
- 2018: Spread operator for easy copying of object properties let obj1 = {c: 3, ...obj2}
- 2019: Array.sort, Array.flat, Array.flatMap (version 10)
- 2020: BigInt primitive, const zipcode = person?.address?.zipcode (version 11)

# JAVASCRIPT FIRST RELEASE (1997)

- <<= >>= >>>=

```
Data Type
                                                                         Control Flow
Scope
                                                                              while
     this
                                        String
                                        Number
                                                                              break
     var
    function
                                        NaN
                                                                               for
     with
                                        Boolean
                                                                               continue
                                        Null
                                                                               if
                                        Undefined
                                                                               else
                                        Object, Array, Function Object
                                                                               return
                                        Math, Number, Date Object
                                 Misc
Operators
                                        comments
     = > < == <= >=
                                        new
   - != , ! ~ ? :
                                        in
   - . && || ++ -- +
                                                                  blank.org
                                        delete
   - % << >> >> += -=
                                                                  ctrl+shift+i
                                        biov
   - *= /= &= |= ^= %=
                                        typeof
```

# JAVASCRIPT FIRST RELEASE - CALCULATOR

- add(x,y)
- addSet(x, set)

#### REFERENCES

- https://en.wikipedia.org/wiki/Ecma International
- <a href="https://en.wikipedia.org/wiki/JavaScript engine">https://en.wikipedia.org/wiki/JavaScript engine</a>
- https://developer.mozilla.org/en-US/docs/Web/JavaScript
- <a href="https://en.wikipedia.org/wiki/ECMAScript">https://en.wikipedia.org/wiki/ECMAScript</a>
- https://www.ecma-international.org/publications/files/ECMA-ST-ARCH/ECMA-262,%201st%20edition,%20June%201997.pdf
- <a href="https://chromium.googlesource.com/v8/v8">https://chromium.googlesource.com/v8/v8</a>
- https://github.com/getify/You-Dont-Know-JS/blob/1st-ed/README.md
- https://code.visualstudio.com/