

JAVASCRIPT 101

WHAT IS JAVASCRIPT

- Other names: Mocha, LiveScript, JScript, ECMAScript
- It is a programming language
- Client side vs Server side

FOCUS

- Client side scripting
- No prior background in programming

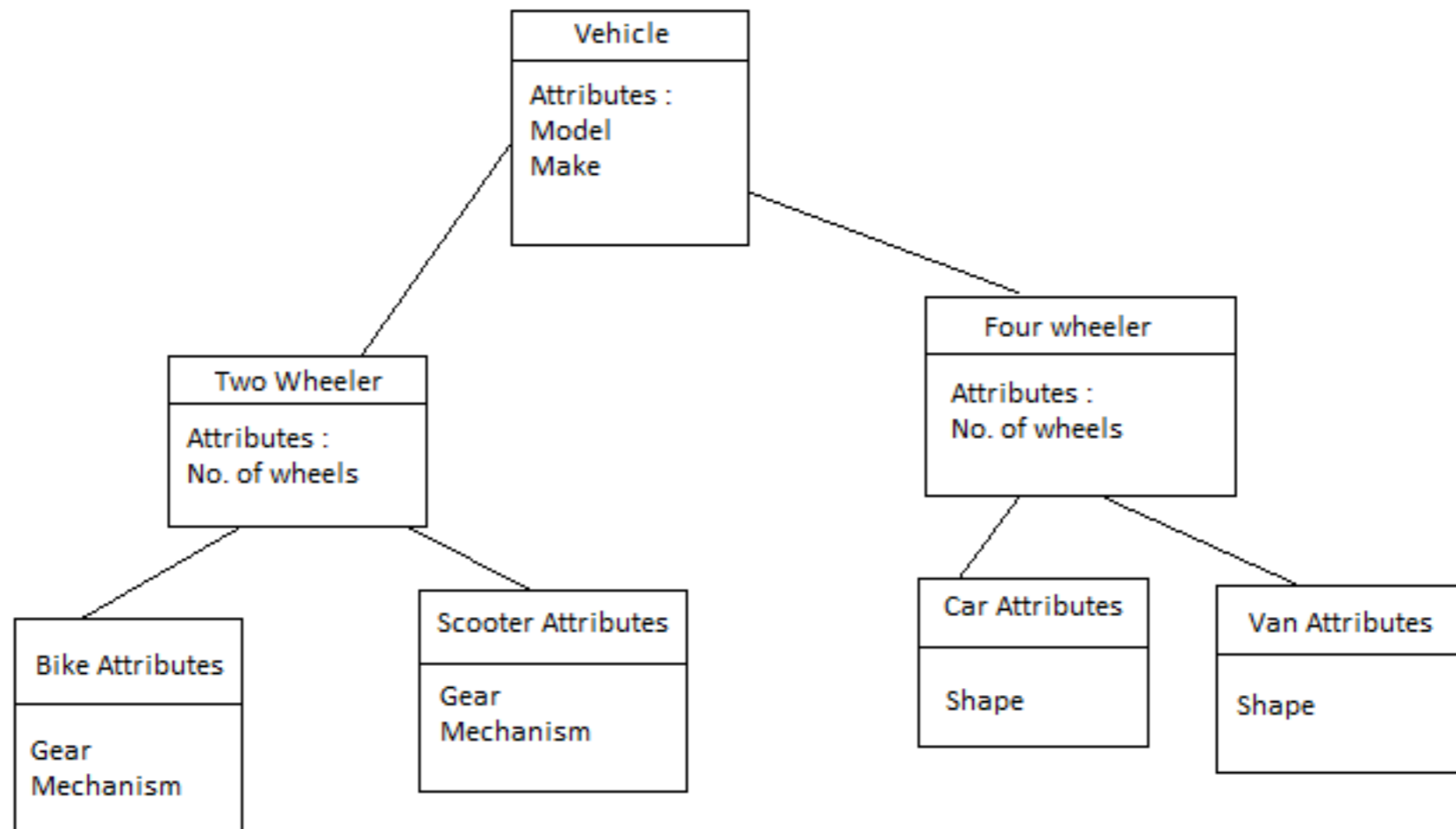
JAVASCRIPT <>

JAVA

TERMS

- Object Oriented Programming (OOP)
 - Objects
 - Properties
 - Methods

OBJECT ORIENTED PROGRAMMING



Inheritance in Java

OOP

```
public class Student
{
    public String Name { get; set; }
    List<Teacher> _lstTeachers { get; set; }

    public void SetAssociatedTeachers(List<Teacher> lstTeachers)
    {
        _lstTeachers = lstTeachers;
    }
}

public class Teacher
{
    public String Name { get; set; }
    List<Student> _lstStudents { get; set; }
}

public class ClientCode
{
    public void CallingCode()
    {
        Student _student = new Student();
        _student.Name = "Student1";

        List<Teacher> _lstTeachers = new List<Teacher>();

        // Lifetime is independent of '_student' and can also associate to _student2
        // So no owner of the instances.
        Teacher _teacher1 = new Teacher { Name = "Teacher1" };
        Teacher _teacher2 = new Teacher { Name = "Teacher2" };
        _lstTeachers.Add(_teacher1);
        _lstTeachers.Add(_teacher2);

        _student.SetAssociatedTeachers(_lstTeachers);
    }
}
```

OBJECTS & PROPERTIES

METHODS

- http://www.w3schools.com/js/js_object_methods.asp

EVENTS

- how we trigger our functions to run

FUNCTIONS

DATA TYPES

- Number
- String
- Boolean
- Function
- Object
- Symbol (new in Edition 6)
- undefined and null

SYNTAX

```
<SCRIPT LANGUAGE="JavaScript">
```

```
<!-- Beginning of JavaScript -
```

```
function MsgBox (textstring) {
```

```
    alert (textstring) }
```

```
// - End of JavaScript - -->
```

```
</SCRIPT>
```

SYNTAX

```
<script src="/path/to/script.js"></script>
```

LOCATION

- `<body>`
- `<head>`
- external

http://www.w3schools.com/js/js_where_to.asp

WHERE TO FIND HELP

- Google
- Stackoverflow
- Github

ASSIGNMENT

- http://www.w3schools.com/js/js_properties.asp
- http://www.w3schools.com/js/js_datatypes.asp