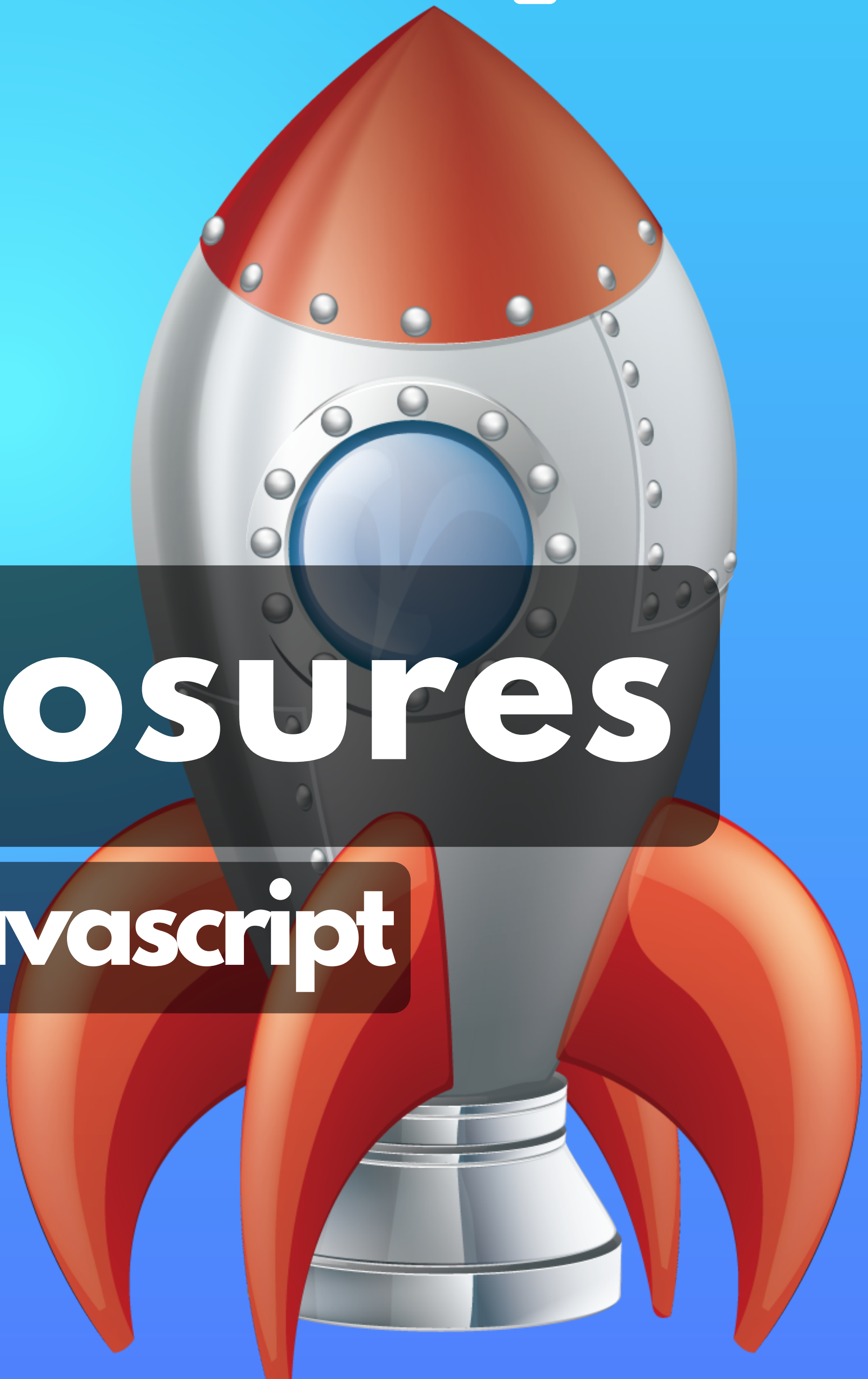


Closures

in Javascript



What Is Closure?

Function bundled along with its lexical scope is closure.



A lexical scope in JavaScript means that a variable defined outside a function can be accessible inside another function defined after the variable declaration. But the opposite is not true; the variables defined inside a function will not be accessible outside that function.

In simple words:

A closure is a function that has access to its outer function scope even after the function has returned.

Meaning, A closure can remember and access variables and arguments reference of its outer function even after the function has returned.*

```
function z() {  
  var b = 900;  
  function x() {  
    var a = 7;  
    function y() {  
      console.log(a, b);  
    }  
    y();  
  }  
  x();  
}  
z(); // 7 900
```

Advantages of Closure:

- **Module Design Pattern**
- **Currying**
- **Memoize**
- **Data hiding and encapsulation**

Disadvantages of Closure:

- **Over consumption of memory**
- **Memory Leak**
- **Freeze browser**