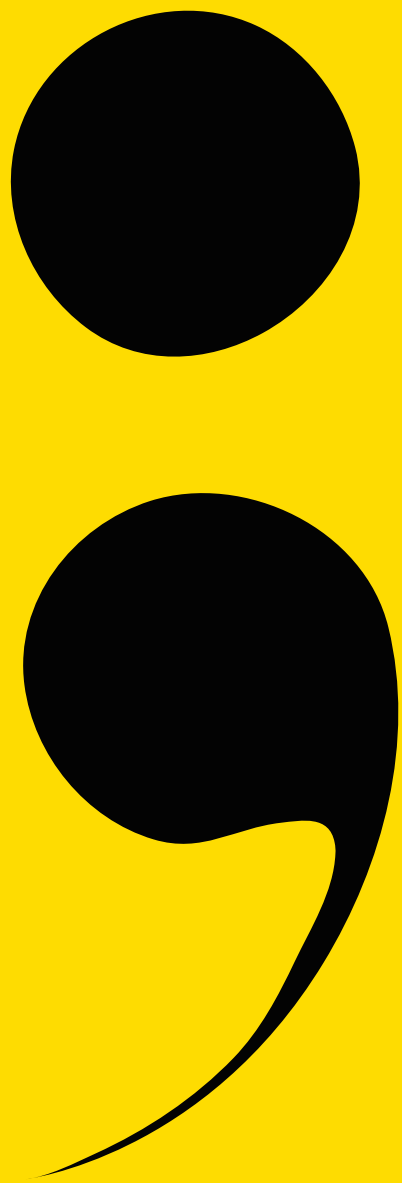


# Automatic Semicolon Insertion (ASI)



## in JavaScript

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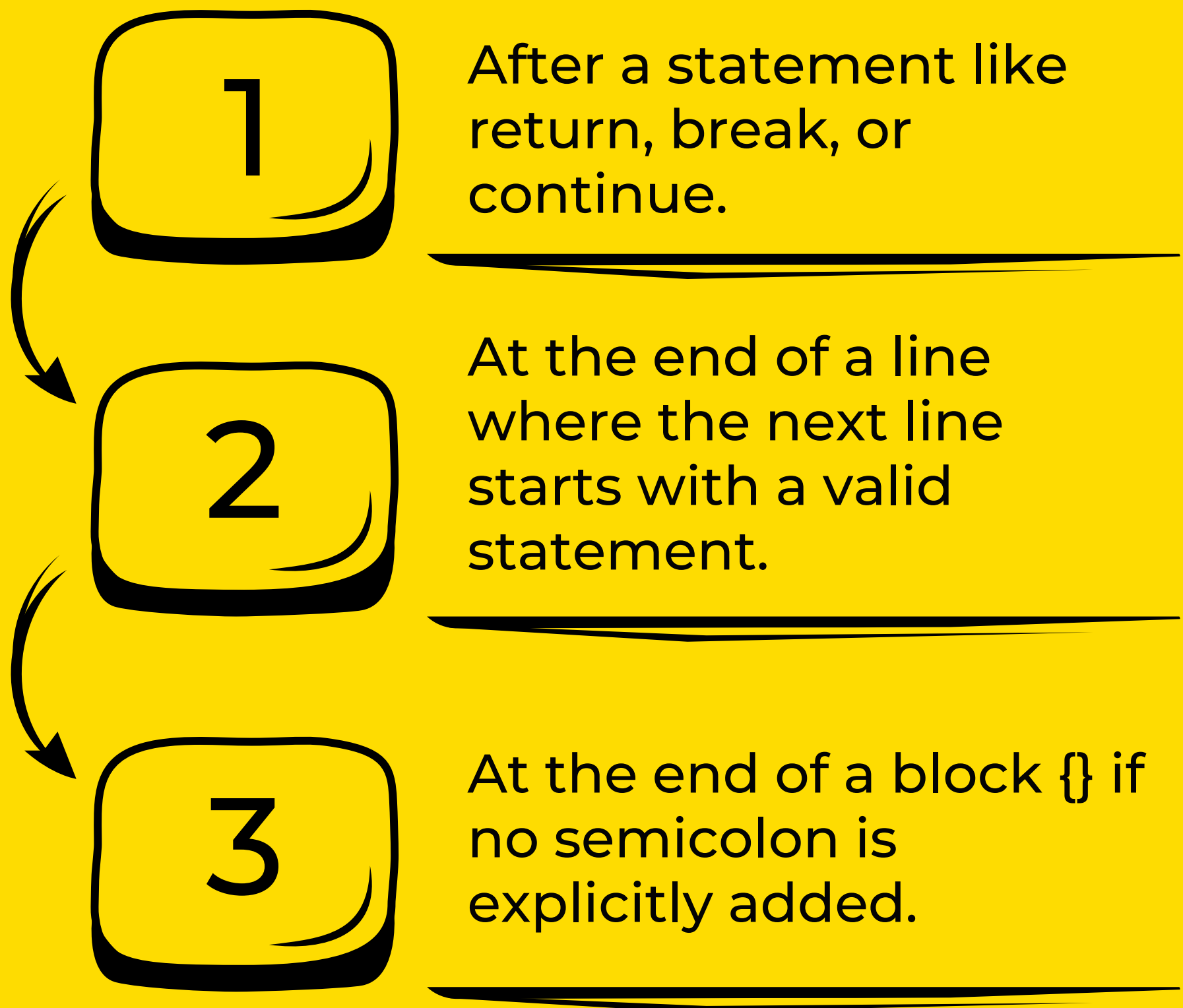
# What is ASI ?

- ASI is a feature in JavaScript where the interpreter automatically inserts semicolons (;) at the end of certain lines of code.
- This helps prevent syntax errors in cases where a semicolon is missing.



# When Does ASI Occur?

- ASI occurs in places where JavaScript expects a semicolon but doesn't find one.
- Common scenarios include:



# Practical Example

```
JS

function greet() {
  return
  {
    message: 'Hello, world!'
  }
}

console.log(greet());
// Output: undefined
```

- You might expect greet() to return the object { message: 'Hello, world!' }, but you are wrong!



# Practical Example

```
JS  
  
function greet() {  
  return; //semicolon is added here by ASI  
  {  
    message: 'Hello, world!'  
  }  
}  
console.log(greet());  
// Output: undefined
```

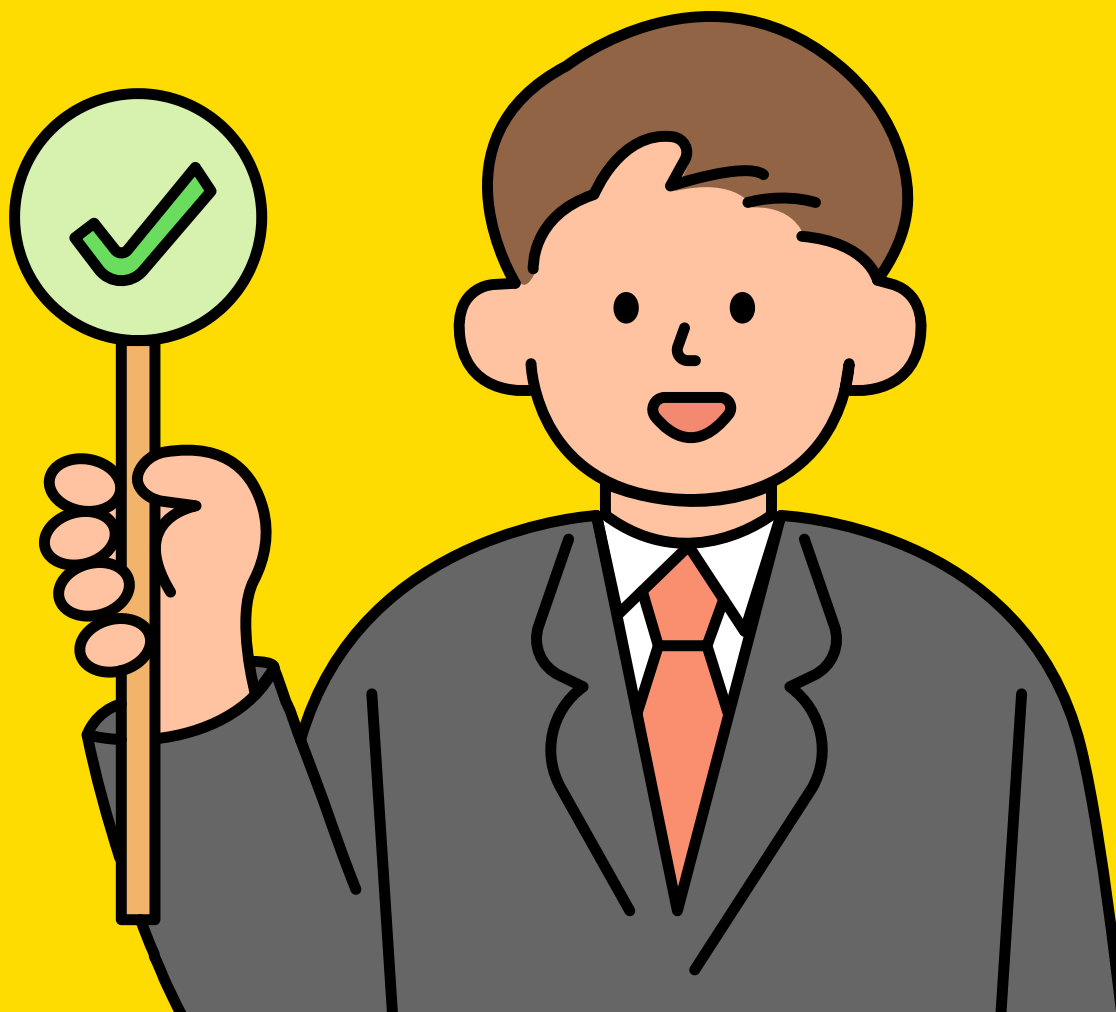
- Due to ASI, a semicolon is automatically inserted after return, making the function return undefined



# Correct Way

```
function greet() {  
  return {  
    message: 'Hello, world!'  
  };  
}
```

- Now as there is an opening brace, ASI will not insert (;) semicolon.



# Best Practices

**1**

**ALWAYS USE  
SEMICOLONS TO AVOID  
AMBIGUITY**

**2**

**BE CAUTIOUS WITH RETURN  
STATEMENTS**

**3**

**USE LINTERS LIKE ESLINT THAT  
CAN HELP CATCH ISSUES  
RELATED TO ASI.**



# Keep Exploring Javascript with us!

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