Lexical Scope

It defines the **visibility** and **accessibility** of variables **based on** their **location** in the source code.

```javascript
const message = 'hello';

function showMessage () {
    const message = 'world';
}
```

What is a Closure?

In simpler terms, a closure allows you to **access** an **outer** function's scope **from** an **inner** function.

```javascript
function sayHi() {
    const message = "Hello, World!";
    function showMessage() {
        console.log(message);
    }
    showMessage();
}


sayHi();
```

Practical Uses of Closures

1. Maintaining Component State

2. Private Variables

3. Callbacks and Asynchronous Code

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